2022

IEK
REAL ABILITY

METAL SHELLS
AND PLASTIC ENCLOSURES

IEK GROUP is an international manufacturer and supplier of electrical and lighting equipment. Among the basic activities of IEK GROUP, which provide the company with a strong position in the market, is the production of metal enclosures and plastic boxes under the IEK brand.

Made in Russia!

The vast majority of IEK® metal and plastic enclosures are produced at IEK GROUP's own production facility located in Yasnogorsk, Tula region.

IEK Group is an international manufacturer and supplier of electrical and lighting equipment. IEK R&D develops products suitable for any conditions and meeting the needs of the most demanding consumer. At every stage of production – from raw materials to finished products – IEK GROUP pays special attention to quality control. All products under the IEK® trademark are tested in our own laboratory, as well as in leading testing and certification centers.

Wide Range

In the IEK® product range, you can find almost any enclosure or box required to equip residential, commercial or industrial buildings. Wall-mounted and flush-mounted, for indoor and outdoor applications, distribution and metering – all these types of enclosures and boxes are produced by IEK GROUP.

IEK® enclosures are designed to accommodate a different number of modules – from 2 to 96. In total, the IEK® assortment includes about 150 models of plastic boxes and more than 1000 models of metal cabinets.

Our own production facilities allow us to manufacture a metal or plastic cabinet of any complexity. IEK® enclosures and boxes have a high degree of protection, meet safety requirements, have an attractive ergonomic design and are easy to assemble.

Reliable Protection

Distinctive features of IEK® plastic boxes are high quality, complete set, ease of installation and operation of products. IEK GROUP manufactures plastic boxes taking into account the requirements of the market and the difficult climatic conditions of north countries. According to a study conducted in 2018 by DISCOVERY Research Group (a partner of rbc.ru), IEK® plastic boxes are number 1 in Russia!

IEK® plastic boxes are designed for installation in apartments and country houses, in modern offices, in industrial premises with increased dustiness and moisture content, and even outdoors in the open air – wherever modular enclosures may be required. The highest degree of protection of IEK® enclosures IP66 guarantees the installed equipment absolute protection against dust and strong water jets.
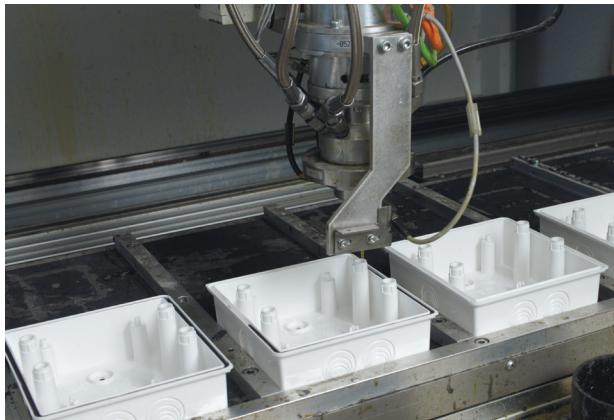
The wide range of accessories for IEK® metal and plastic enclosures ensures quick and easy mounting of electrical equipment as well as ease of use. The IEK® product range includes DIN rails, various electrical busbars, clamps and terminal blocks, as well as glands, climate control equipment and other accessories for electrical cabinets.

Highest precision

In the production of IEK® metal cabinets, high-quality metal is used, and the modern equipment installed at the IEK GROUP enterprise allows achieving the highest precision in cutting raw materials and welding enclosures.

Positioning and punching machines provide accurate cutting and no gaps in the product. Robotic welding makes cabinets not only aesthetically pleasing, but also guaranteed to be safe – all joints are sealed and have perfect geometry. The automatically applied polyurethane sealant guarantees the declared degree of protection for IEK® metal products. And one of the best automated painting lines in Russia creates a reliable anti-corrosion coating.

People Choose Us

IEK® metal enclosures and plastic boxes are used at the largest industrial and infrastructure facilities, in business centers and residential complexes, in hospitals, schools and other social institutions.
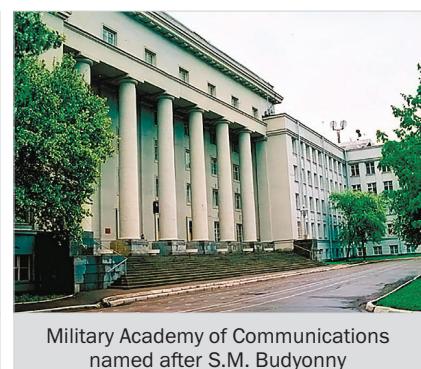

St. Isaac's Cathedral (St. Petersburg)

Perm State Regional Power Plant

Petrozavodskmash Plant
(Rosatom Corporation)

Stadiums for the 2018 World Cup

Bystrinsky Mining and Processing Plant

Star City
(Vostochny Cosmodrome)

Residential facilities of the PIK Group of Companies

Park of the 300th Anniversary of St. Petersburg

Military Academy of Communications named after S.M. Budyonny

Dolphinarium (Novosibirsk)

Sheep farms of Miratorg AIH

Yaroslavsky Greenhouse Complex

Table of Contents

Plastic enclosures

page 9
Wall-mounting modular plastic distribution enclosure, IP20, IP30, IP31

page 11
Wall(flush)-mounting plastic distribution enclosure, IP41

page 15
PRIME series wall(flush)-mounting plastic distribution enclosure, IP41

page 19
Flush-mounting modular plastic distribution enclosure IP30

page 22
Multimedia flush-mounting plastic enclosure, IP41

page 24
Wall-mounting modular plastic distribution enclosure, IP55

page 27
Wall-mounting modular plastic distribution enclosure 5/16, IP55

page 29
Wall-mounting modular plastic distribution enclosure, IP66

page 36
Plastic panel for meter installation

page 38
Wall-mounting plastic enclosure for metering and distribution, IP55

page 41
Wall-mounting plastic enclosure for metering and distribution, IP66 PC

page 44
Polyester enclosure for metering and distribution, IP54

page 47
Plastic enclosure with mounting panel IP65

page 51
Polyester enclosure with mounting panel IP54

Modular Metal Enclosures

page 72
UNIVERSAL series wall(flush)-mounting metal distribution enclosure

page 79
PRO series wall(flush)-mounting metal distribution enclosure

page 86
Wall(flush)-mounting metal distribution enclosure

page 91
TREND series flush-mounting metal distribution enclosure

page 94
Wall(flush)-mounting metal enclosure for metering and distribution

page 100
Wall-mounting metal enclosure for metering

page 104
Metal enclosure for staircase distribution board

page 108
Metal enclosure for staircase distribution board without low-current compartment

page 111
Metal assembling enclosure for staircase distribution modular board

page 113
LIGHT series metal assembling enclosure for staircase distribution modular board

Low Voltage Complete Devices

page 117
Light board with switch,
Flush-mounted light board
with switch

page 120
Stepdown transformer box

page 123
Distributor for construction
sites

page 125
Boxes with a switch
and fuses

Metallic shells

page 128
GARANT series distribution
boards

page 132
PRO series distribution
boards

page 137
Metal enclosures with
mounting panel

page 151
Metal enclosures with
mounting panel IP54

page 153
TITAN series metal
assembling enclosure for
incoming and distribution
switchboard

page 159
SMART series metal
assembling enclosure for
incoming and distribution
switchboard

page 167
SMART series metal
assembling enclosure
for main distribution
switchboard IP 31

page 171
Large-size dismountable
metal enclosure

page 175
Metal enclosures for
distribution points

page 179
Metal assembling enclosure
with one-side maintenance
possibility

page 183
Metal enclosure for
distribution boards

page 185
FORMAT cabinets

Distribution cabinet accessories

Plastic enclosures

IEK

KREPTA 3
Wall-mounting modular plastic distribution enclosures
IP20, IP30, IP31

Wall-mounting modular plastic distribution enclosure, which are distinguished by their modern design and streamlined shapes, will suit any interior. They are installed in residential and office premises.

KREPTA

Advantages

- Made of self-extinguishing polymers.
- Protection from theft of electricity and from unauthorized access to the contact group – the possibility of sealing.
- Simple and quick installation.
- Easy insertion of cables through knock-out holes.
- Possibility to install several enclosures in a row.

Specifications

Installation type	wall-mounted
Degree of protection	IP20, IP30, IP31
Protection class	II
Enclosure material	polystyrene
Door material	polystyrene
Color	white (RAL 9016), pine (RAL 1001), oak (RAL 8024)
Number of rows	1
Number of modules	from 2 to 9
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	100
Operating temperature, °C	$-20 \div +80$
Climatic modification	NF3

Assortment

	Name	Color	Number in a package	Article
	Wall-mounting modular plastic distribution enclosure 1/2 Standard size: 1 row, 2 modules	white pine oak	252	MKP31-N-02-30-252 MKP31-N-02-30-252-S MKP31-N-02-30-252-D
	Wall-mounting modular plastic distribution enclosure 1/4 Standard size: 1 row, 4 modules	white pine oak	135	MKP31-N-04-30-135 MKP31-N-04-30-135-S MKP31-N-04-30-135-D
	Wall-mounting modular plastic distribution enclosure 2/2 Standard size: 1 row, 2 modules	white pine oak	160	MKP42-N-02-30-20 MKP42-N-02-30-20-S MKP42-N-02-30-20-D
	Wall-mounting modular plastic distribution enclosure 2/4 Standard size: 1 row, 4 modules	white pine oak	96	MKP42-N-04-30-12 MKP42-N-04-30-12-S MKP42-N-04-30-12-D
	Wall-mounting modular plastic distribution enclosure 2/6 Standard size: 1 row, 6 modules	white pine oak	72	MKP42-N-06-30-09 MKP42-N-06-30-09-S MKP42-N-06-30-09-D
	Wall-mounting modular plastic distribution enclosure 2/9-1 Standard size: 1 row, 9 modules	white	32	MKP42-N-09-31-01
	Wall-mounting modular plastic distribution enclosure 2/9-2 Standard size: 1 row, 9 modules (individually packed)	white pine oak	32	MKP42-N-09-31-02 MKP42-N-09-31-02-S MKP42-N-09-31-02-D

Color solutions

white
(RAL 9016)

pine
(RAL 1001)

oak
(RAL 8024)

KREPTA 3
Wall(flush)-mounting
modular plastic distribution enclosures IP41

Used in residential and office premises. Designed for the installation of modular devices: circuit breakers, residual current devices, differential circuit breakers, timers, lighting control devices, etc.
Reliable modern design and durable plastic, convenient fastening devices guarantee the products a long service life and safe operation.

KREPTA

Advantages

- Impact resistant self-extinguishing ABS plastic.
- Simple and quick installation – holes for fixing the enclosure.
- Convenient installation – pre-punched inputs for cable entry from all sides.
- Universal screws to fit any type of screwdriver.
- Special support for N and PE buses made of self-extinguishing plastic at 960°C.
- Increased distance from the DIN rail to the back of the enclosure base.

Specifications

Installation type	wall-mounted, flush-mounted
Degree of protection	IP41
Protection class	II
Enclosure material	ABS
Door material	polystyrene
Enclosure color	white (RAL9016), black (RAL9005), pine
Number of rows	from 1 to 3
Number of modules	from 4 to 36
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	100
Operating temperature, °C	−20÷+80
Climatic modification	NF3
Impact strength	IK05 (0.7 J)

Design features

Easy entry of cables, wires through punched-out conductor entries on the rear and side walls of the enclosure.

The vertical arrangement of the enclosure provides ease of installation and additional air circulation.

No need to write on the circuit breakers themselves — a special marking tape is included.

Individual packaging* not only protects the enclosure from mechanical stress, but also informs the consumer about the advantages of IEK® enclosures.

The special support for N and PE busbars can be easily removed and installed in both the upper and lower parts of the enclosure base. The support self-extinguishes at a temperature of 960°C.

The complete set of enclosures ensures simple and quick installation.

Precise alignment and reliable wall mounting of the enclosure is ensured by anchorage points with dimensions between them.

The universal anodized screws are protected against corrosion and fit any type of screwdriver.
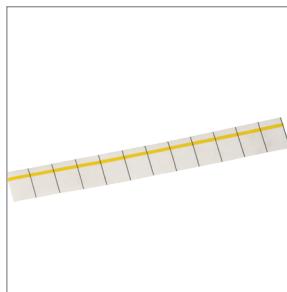
Component parts

DIN rails

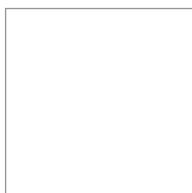Support with N and PE buses

Marking tape

Screws and plastic plugs

*Individual packing of black enclosures — a white box with a sticker.

	Name	Standard size	Buses	Color of enclosure	Color of doors	Weight, kg	Number in a package	Article
	Wall-mounting modular plastic distribution enclosure-4 wall-mounted	1 row, 4 modules	N/PE bus: 6×9 mm 4/1 – 1 pc.	white	transparent	0.32	20	MKP12-N-04-40-20
				black	transparent			MKP12-N-04-41-K02
				black*	black			MKP13-N-04-41-K02
	Wall-mounting modular plastic distribution enclosure-6 wall-mounted	1 row, 6 modules	N/PE buses: 6×9 mm 4/1 – 1 pc.; 6×9 mm 6/1 – 1 pc.	white	transparent	0.43	20	MKP12-N-06-40-20
				pine	transparent			MKP12-N-06-41-K34
				black	transparent			MKP12-N-06-41-K02
				black*	black			MKP13-N-06-41-K02
	Wall-mounting modular plastic distribution enclosure-8 wall-mounted	1 row, 8 modules	N/PE buses: 6×9 mm 4/1 – 1 pc.; 6×9 mm 8/1 – 1 pc.	white	transparent	0.49	20	MKP12-N-08-40-20
				pine	transparent			MKP12-N-08-41-K34
				black	transparent			MKP12-N-08-41-K02
				black*	black			MKP13-N-08-41-K02
	Wall-mounting modular plastic distribution enclosure-10 wall-mounted	1 row, 10 modules	N/PE buses: 6x9 mm 4/1 - 1 pc. 6x9 mm 5/1 - 1 pc.	white	transparent	0.62	20	MKP12-N-04-10-41
	Wall-mounting modular plastic distribution enclosure-12 wall-mounted	1 row, 12 modules	N/PE buses: 6×9 mm 6/1 – 1 pc.; 6×9 mm 8/1 – 1 pc.	white	transparent	0.65	10	MKP12-N-12-40-10
				pine	transparent			MKP12-N-12-41-K34
				black	transparent			MKP12-N-12-41-K02
				black*	black			MKP13-N-12-41-K02
	Wall-mounting modular plastic distribution enclosure-15 wall-mounted	1 row, 15 modules	N/PE buses: 6x9 mm 6/1 - 2 pcs.	white	transparent	0.89	15	MKP12-N-04-15-41
	Wall-mounting modular plastic distribution enclosure-18 wall-mounted	1 row, 18 modules	N/PE buses: 6×9 mm 8/1 – 1 pc.; 6×9 mm 10/1 – 1 pc.	white	transparent	0.93	10	MKP12-N-18-40-10
				pine	transparent			MKP12-N-18-41-K34
				black	transparent			MKP12-N-18-41-K02
				black*	black			MKP13-N-18-41-K02
	Wall-mounting modular plastic distribution enclosure-24 wall-mounted	2 rows, 24 modules	N/PE buses: 6×9 mm 6/1 – 2 pc.; 6×9 mm 8/1 – 2 pcs.	white	transparent	1.17	10	MKP12-N-24-40-10
				black	transparent			MKP12-N-24-41-K02
				black*	black			MKP13-N-24-41-K02
	Wall-mounting modular plastic distribution enclosure-36 wall-mounted	3 rows, 36 modules	N/PE buses: 6×9 mm 8/1 – 2 pcs.; 6×9 mm 10/1 – 2 pcs.	white	transparent	1.92	5	MKP12-N-36-40-05
				black	transparent			MKP12-N-36-41-K02
				black*	black			MKP13-N-36-41-K02
	Wall-mounting modular plastic distribution enclosure-45 wall-mounted	3 rows, 45 modules	N/PE buses: 6x9 mm 9/1 - 4 pcs.	white	transparent	2.32	5	MKP12-N-04-45-41

* customized items.

IEK

	Name	Standard size	Buses	Color of enclosure	Color of doors	Weight, kg	Number in a package	Article
	Flush-mounting modular plastic distribution enclosure-4	1 row, 4 modules	N/PE bus: 6×9 mm 4/1 — 1 pc.	white	transparent	0.36	20	MKP12-V-04-40-20
				black	transparent			MKP12-V-04-41-K02
				black*	black			MKP13-V-04-41-K02
	Flush-mounting modular plastic distribution enclosure-6	1 row, 6 modules	N/PE buses: 6×9 mm 4/1 — 1 pc.; 6×9 mm 6/1 — 1 pc.	white	transparent	0.41	20	MKP12-V-06-40-20
				black	transparent			MKP12-V-06-41-K02
				black*	black			MKP13-V-06-41-K02
	Flush-mounting modular plastic distribution enclosure-8	1 row, 8 modules	N/PE buses: 6×9 mm 4/1 — 1 pc.; 6×9 mm 8/1 — 1 pc.	white	transparent	0.49	20	MKP12-V-08-40-20
				black	transparent			MKP12-V-08-41-K02
				black*	black			MKP13-V-08-41-K02
	Flush-mounting modular plastic distribution enclosure-10	1 row, 10 modules	N/PE buses: 6x9 mm 4/1 - 1 pc. 6x9 mm 5/1 - 1 pc.	white	transparent	0.72	20	MKP12-V-04-10-41
	Flush-mounting modular plastic distribution enclosure-12	1 row, 12 modules	N/PE buses: 6×9 mm 6/1 — 1 pc.; 6×9 mm 8/1 — 1 pc.	white	transparent	0.62	10	MKP12-V-12-40-10
				black	transparent			MKP12-V-12-41-K02
				black*	black			MKP13-V-12-41-K02
	Flush-mounting modular plastic distribution enclosure-15	1 row, 15 modules	N/PE buses: 6x9 mm 6/1 - 2 pcs.	white	transparent	0.98	15	MKP12-V-04-15-41
	Flush-mounting modular plastic distribution enclosure-18	1 row, 18 modules	N/PE buses: 6×9 mm 8/1 — 1 pc.; 6×9 mm 10/1 — 1 pc.	white	transparent	0.96	10	MKP12-V-18-40-10
				black	transparent			MKP12-V-18-41-K02
				black*	black			MKP13-V-18-41-K02
	Flush-mounting modular plastic distribution enclosure-24	2 rows, 24 modules	N/PE buses: 6×9 mm 6/1 — 2 pcs.; 6×9 mm 8/1 — 2 pcs.	white	transparent	1.11	10	MKP12-V-24-40-10
				black	transparent			MKP12-V-24-41-K02
				black*	black			MKP13-V-24-41-K02
	Flush-mounting modular plastic distribution enclosure-36	3 rows, 36 modules	N/PE buses: 6×9 mm 8/1 — 2 pcs.; 6×9 mm 10/1 — 2 pcs.	white	transparent	1.85	5	MKP12-V-36-40-05
				black	transparent			MKP12-V-36-41-K02
				black*	black			MKP13-V-36-41-K02
	Flush-mounting modular plastic distribution enclosure-45	3 rows, 45 modules	N/PE buses: 6x9 mm 9/1 - 4 pcs.	white	transparent	2.66	5	MKP12-V-04-45-41

Color

white (RAL 9016)	pine	black (RAL 9005)

* customized items.

PRIME
Wall(flush)-mounting
modular plastic distribution enclosures IP41

PRIME series wall(flush)-mounting metal distribution enclosures IP41 are used in residential and office premises. Designed for the installation of modular devices: circuit breakers, residual current devices, differential circuit breakers, timers, lighting control devices, etc.

The design of the enclosure and its individual elements is designed in such a way as to simplify and speed up the process of assembly and installation of the enclosure as much as possible.

Due to the unique design, the enclosures will successfully fit into any interior.

Advantages

- Stylish and ergonomic design.
- Complete set – ready to assemble.
- Safety support for N/PE buses.
- Convenient latch-lock for locking the door.
- Depth adjustment of the DIN rail.
- Possibility to re-hang the door.
- Possibility of sealing the enclosure.
- Break-out holes for cable entry of various diameters, as well as the possibility of inserting a cable channel into the enclosure (for wall-mounted models).

Specifications

Installation type	wall-mounted, flush-mounted
Degree of protection	IP41
Protection class	II
Enclosure material	ABS
Door material	polycarbonate
Enclosure color	RAL 9016 (white), RAL 9005 (black)
Number of rows	from 1 to 3
Number of modules	from 4 to 36
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	100
Operating temperature, °C	−20÷+85
Climatic modification	NF3
Impact strength	IK05 (0.7 J)

Design features

Snap-on safety support for N/PE buses.

Possibility of entering a cable duct and pipes of various diameters into the enclosure using a special insert.

Possibility of sealing the enclosure with a plastic screw.

Step-type DIN rail holder for depth adjustment of the DIN rail.

Convenient door latch lock with push mechanism.

Bright and informative individual packaging.

Ease of installation due to the absence of side walls on the base of the enclosure in wall-mounting models.

Stiffeners ensure the structural strength of the enclosure.

Component parts
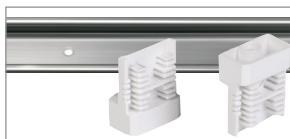
DIN rail and step-type DIN rail holders

Latch lock and lock cover

Plastic screws, dowels

Plastic plugs for mounting holes

N/PE buses,
N/PE bus support

Mounting level in enclosures for 18, 24 and 36 modules

Insert for wall-mounting metal distribution enclosures

Marking tape

Assortment

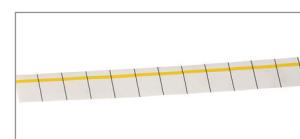|	Name	Standard size	N/PE bus	Weight, kg	Enclosure color	Door color	Article
	Wall-mounting modular plastic distribution enclosure-4 PRIME	1 row, 4 modules, wall-mounting	6×9 mm 6/2 − 1 pc.	0.47	white	transparent	MKP82-N-04-41-20
					white	white	MKP82-N-04-WD-41-20
					black	black	MKP13-N-01-04-41-K02
	Wall-mounting modular plastic distribution enclosure 6 PRIME	1 row, 6 modules, wall-mounting	6×9 mm 4/2 − 2 pcs.	0.56	white	transparent	MKP82-N-06-41-20
					white	white	MKP82-N-06-WD-41-20
					black	black	MKP13-N-01-06-41-K02
	Wall-mounting modular plastic distribution enclosure 9 PRIME	1 row, 9 modules, wall-mounting	6×9 mm 4/2 − 1 pc.; 6×9 mm 6/2 − 1 pc.	0.68	white	transparent	MKP82-N-09-41-20
					white	white	MKP82-N-09-WD-41-20
					black	black	MKP13-N-01-09-41-K02
	Wall-mounting modular plastic distribution enclosure 12 PRIME	1 row, 12 modules, wall-mounting	6×9 mm 4/2 − 1 pc.; 6×9 mm 10/2 − 1 pc.	0.79	White	transparent	MKP82-N-12-41-10
					white	white	MKP82-N-12-WD-41-10
					black	black	MKP13-N-01-12-41-K02
	Wall-mounting modular plastic distribution enclosure 18 PRIME	1 row, 18 modules, wall-mounting	6×9 mm 10/2 − 2 pcs.	1,00	white	transparent	MKP82-N-18-41-10
					white	white	MKP82-N-18-WD-41-10
					black	black	MKP13-N-01-18-41-K02
	Wall-mounting modular plastic distribution enclosure 24 PRIME	2 rows, 24 modules, wall-mounting	6×9 mm 4/2 − 2 pcs.; 6×9 mm 10/2 − 2 pcs.	1.21	white	transparent	MKP82-N-24-41-10
					white	white	MKP82-N-24-WD-41-10
					black	black	MKP13-N-01-24-41-K02
	Wall-mounting modular plastic distribution enclosure 36 PRIME	3 row, 36 modules, wall-mounting	6×9 mm 8/2 − 1 pc.; 6×9 mm 10/2 − 3 pcs.	1.67	white	transparent	MKP82-N-36-41-05
					white	white	MKP82-N-36-WD-41-05
					black	black	MKP13-N-01-36-41-K02

	Name	Standard size	N/PE bus	Weight, kg	Enclosure color	Door color	Article
	Flush-mounting modular plastic distribution enclosure-4 PRIME	1 row, 4 modules, flush-mounting	6×9 mm 6/2 − 1 pc.	0.44	white	transparent	MKP82-V-04-41-20
					white	white	MKP82-V-04-WD-41-20
					black	black	MKP13-V-01-04-41-K02
	Flush-mounting modular plastic distribution enclosure-6 PRIME	1 row, 6 modules, flush-mounting	6×9 mm 4/2 − 2 pcs.	0.53	white	transparent	MKP82-V-06-41-20
					white	white	MKP82-V-06-WD-41-20
					black	black	MKP13-V-01-06-41-K02
	Flush-mounting modular plastic distribution enclosure-9 PRIME	1 row, 9 modules, flush-mounting	6×9 mm 4/2 − 1 pc.; 6×9 mm 6/2 − 1 pc.	0.64	white	transparent	MKP82-V-09-41-20
					white	white	MKP82-V-09-WD-41-20
					black	black	MKP13-V-01-09-41-K02
	Flush-mounting modular plastic distribution enclosure-12 PRIME	1 row, 12 modules, flush-mounting	6×9 mm 4/2 − 1 pc.; 6×9 mm 10/2 − 1 pc.	0.75	White	transparent	MKP82-V-12-41-10
					white	white	MKP82-V-12-WD-41-10
					black	black	MKP13-V-01-12-41-K02
	Flush-mounting modular plastic distribution enclosure-18 PRIME	1 row, 18 modules, flush-mounting	6×9 mm 10/2 − 2 pcs.	0.98	white	transparent	MKP82-V-18-41-10
					white	white	MKP82-V-18-WD-41-10
					black	black	MKP13-V-01-18-41-K02
	Flush-mounting modular plastic distribution enclosure-24 PRIME	2 rows, 24 modules, flush-mounting	6×9 mm 4/2 − 2 pcs.; 6×9 mm 10/2 − 2 pcs.	1.25	white	transparent	MKP82-V-24-41-10
					white	white	MKP82-V-24-WD-41-10
					black	black	MKP13-V-01-24-41-K02
	Flush-mounting modular plastic distribution enclosure-36 PRIME	3 rows, 36 modules, flush-mounting	6×9 mm 8/2 − 1 pc.; 6×9 mm 10/2 − 3 pcs.	1.73	white	transparent	MKP82-V-36-41-05
					white	white	MKP82-V-36-WD-41-05
					black	black	MKP13-V-01-36-41-K02

Color

white
(RAL 9016)

black
(RAL 9005)

KREPTA 7
Flush-mounting modular plastic distribution enclosures IP30

Flush-mounting enclosures for installation in residential and office premises. These enclosures have a unique design that provides convenience, quick installation and will harmoniously fit into any interior.

KREPTA

Advantages

- A wide selection of all kinds of accessories that ensure easy and quick installation.
- Protection against theft of electricity due to the possibility of sealing the enclosure.
- The steel door is protected against corrosion by phosphating and powder coating.
- Ease of use – reversible door.
- Simple change of the position of the NE bus support.
- Universal packaging.
- Easy cable entry due to the easily removable side panels
- The special design of the enclosure allows levelling the unevenness of the surfaces on which the enclosure is installed, within 18 mm.

Specifications

Installation type	flush-mounting
Degree of protection	IP30
Protection class	II
Enclosure material	polystyrene
Door, frame material	steel
Color	RAL 9016 (white)
Number of rows	from 1 to 4
Number of modules	from 14 to 56
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	63
Climatic modification	N3

Design features

The frame and door are made of sheet steel, protected against corrosion and painted with a special powder paint.

The ability to install removable panels in the center of the enclosure.

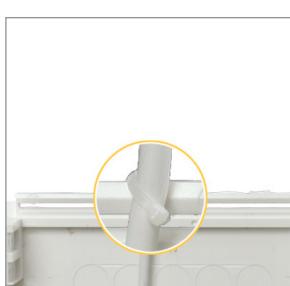Sealing holes to protect against unauthorized access.

Possibility of installing a support with N and PE buses both from the top and from the bottom.

The removable panel makes it easy to enter conductors.

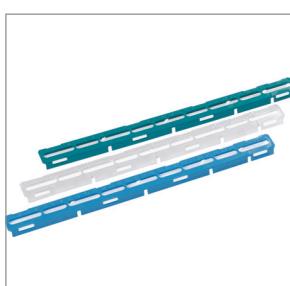Saving time and quick installation are provided by mounting accessories.

During operation, the cable can be fixed on a special mount.

The packaging is equipped with special marks that help to accurately position the enclosure in the niche.
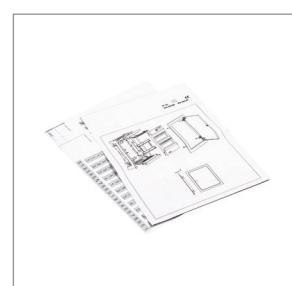
Component parts

Marking clamps

Mounting frames. Screws and plastic dowels

DIN rails and support with N and PE buses

Instruction, marking sheet

Assortment

	Name	Standard size	Buses	Weight, kg	Article
	Flush-mounting modular plastic distribution enclosure 4/14 with a metal door	1 row, 14 modules	N and PE: 13×16 mm² — 2 pcs.	2.088	MKP54-V-14-30-01
	Flush-mounting modular plastic distribution enclosure 4/28 with a metal door	2 rows, 28 modules	N and PE: 17×16 mm² — 2 pcs.	2.838	MKP54-V-28-30-01
	Flush-mounting modular plastic distribution enclosure 4/42 with a metal door	3 rows, 42 modules	N and PE: 27×16 mm² — 2 pcs.	3.6	MKP54-V-42-30-01
	Flush-mounting modular plastic distribution enclosure 4/56 with a metal door	4 rows, 56 modules	N and PE: 27×16 mm² — 2 pcs.	4.6	MKP54-V-56-30-01

KREPTA Multimedia
Flush-mounting modular plastic distribution enclosures for low-current systems IP41

Flush-mounting modular plastic distribution enclosure Multimedia are designed for the implementation of low-current circuits of any complexity.

The enclosure is suitable for installing any multimedia devices and organizing a home structured cabling system. Routers, patch panels, TV splitters and other low-current equipment are installed in the enclosure using special fasteners.

A well-thought-out modern design, durable plastic and convenient fasteners guarantee quick installation, long service life and safe operation.

KREPTA

Advantages

- Solid, impact resistant, fireproof plastic enclosure with metal frame.
- Doesn't shield Wi-Fi signals due to its plastic construction.
- Convenient and quick installation.
- Easy fixation of routers of all sizes in a special pocket.
- Ergonomic placement of all elements of low-current systems inside a spacious enclosure.
- 12-port patch panel included.

Specifications

Installation type	flush-mounting
Degree of protection	IP41
Enclosure material	polystyrene, metal
Door material	ABS
Number of ports	12
Rated current, A	100
Operating temperature, °C	−20÷+85
Impact strength	IK07
Service life	not less than 25 years
Guarantee period	5 years

Design features

Designed specifically for the installation of multimedia devices (routers, TV splitters, etc.).

Cable entry markings simplify network connection.

Plastic radio-transparent door (Wi-Fi).

The holder of fasteners (patch panel, fixing pocket) of stepped type for the possibility of adjusting the elements in depth.

Component parts

Mounting level

12-port patch panel for Keystone modules

Universal router pocket

Screws and plastic plugs

Assortment

Name	Color	Enclosure type	Capacity	Article
Flush-mounting modular plastic distribution enclosure -36 Multimedia	white (RAL 9010)	Flush-mounting	12 ports for Keystone modules	MKP15-V-06-36-41

iEK

KREPTA

KREPTA 5
Wall-mounting
modular plastic distribution enclosure IP55

The enclosures can be installed in rooms with high humidity or dusty levels, as well as outdoors. Ideal for use in garages, car washes, basements, laboratories, workshops, etc.

Advantages

- The enclosures have a high level of strength and withstand impact energies of 0.7 Joules (IK05).
- Self-extinguishing plastic (filament test at 750°C).
- Step-type DIN rail holder for depth adjustment of the DIN rail.
- Safety support for N/PE buses.
- Break-out holes for wire routing.
- Possibility of re-hanging the door from both sides (left/right).
- Plastic screws ensure ease of installation.
- Protection of the enclosure and door from unauthorized entry – holes for sealing.

Specifications

Installation type	wall-mounted
Degree of protection	IP55
Protection class	II
Enclosure material	ABS
Door material	polycarbonate
Color	RAL 9016 (white)
Number of rows	from 1 to 3
Number of modules	from 5 to 36
Rated voltage, V	up to 400
Rated frequency, Hz	50
Rated current, A	100
Operating temperature, °C	−40÷+80
Climatic modification	N1
Impact strength	IK05 (0.7 J)

Design features

Safety support for N/PE buses.
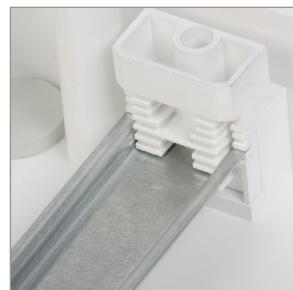
Step-type DIN rail holder for depth adjustment of the DIN rail.

For ease of use of the enclosure, it is provided to change the direction of opening the door. With a slight push, the door is removed from the latches and installed on the other side.

Sealing of the enclosure is ensured by the special gasket and additional glands.

Possibility of sealing the enclosure door.

To protect against unauthorized entry and access to the relay contact, a seal hole is provided.
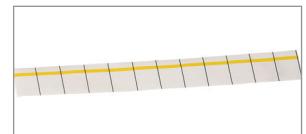
Component parts

DIN rails

Glands

N/PE buses,
N/PE bus support

Step-type
DIN rail holders

Plastic screws, dowels

Rubber plugs

Mounting level in enclosures for 18, 24 and 36 modules

Marking tape

IEK

Assortment

	Name	Standard size	N/PE bus	Weight, kg	Q-ty in a package	Article
	Wall-mounting modular plastic distribution enclosure-5 IP55 hinged	1 row, 5 modules	6×9 mm 6/2 — 1pc.	0.54	30	MKP72-N3-05-55
	Wall-mounting modular plastic distribution enclosure-9 IP55	1 row, 9 modules	6×9 mm 10/2 — 1 pc.	0.79	20	MKP72-N3-09-55
	Wall-mounting modular plastic distribution enclosure-12 IP55	1 row, 12 modules	6×9 mm 4/2 — 1 pc. 6×9 mm 10/2 — 1 pc.	1.03	12	MKP72-N3-12-55
	Wall-mounting modular plastic distribution enclosure-18 IP55	1 row, 18 modules	6×9 mm 10/2 — 2 pc.	1.3	10	MKP72-N3-18-55
	Wall-mounting modular plastic distribution enclosure-24 IP55	2 rows, 24 modules	6×9 mm 6/2 — 1 pc. 6×9 mm 10/2 — 2 pcs.	1.7	8	MKP72-N3-24-55
	Wall-mounting modular plastic distribution enclosure 36, IP55 wall-mounted	3 rows, 36 modules	6×9 mm 6/2 — 1 pc. 6×9 mm 10/2 — 3 pcs.	2,3	5	MKP72-N3-36-55

KREPTA 5
Wall-mounting modular plastic distribution enclosure with transparent cover 5/16 IP55

The enclosures are ideal for installation in rooms with high humidity or dusty levels: in garages, basements, etc., as well as for outdoor installations.

Can be used as metering boards – the ability to install a meter, metering and distribution boards; the ability to install modular equipment and meters, control panels; the ability to install a starter, intermediate relay, timers, etc.

KREPTA

Advantages

- Base material – self-extinguishing ABS plastic, cover material – impact resistant self-extinguishing polycarbonate, resistant to increased mechanical stress, which ensures electrical safety.
- The enclosure includes stepped glands and gaskets for the mounting holes, which provide additional sealing to the enclosure.
- The enclosure has supports for mounting a DIN rail and a neutral bus.
- The entry of wires (cables) is carried out through special break-out holes of various diameters.
- The ability to install a DIN rail both vertically and horizontally.
- There is a hole for a seal that protects against theft of electricity and unauthorized access to the relay contact.

Specifications

Installation type	wall-mounted
Degree of protection	IP55
Enclosure material	ABS
Cover material	polycarbonate
Color	RAL 9016 (white)
Operating temperature, °C	−20 ÷ +70
Impact strength	IK07 (2 J)

27

Assortment

Name	Quantity in a package	Article
Wall-mounting modular plastic distribution enclosure 5/16 with a transparent cover	10	MKP75-N-16-55-10

Component parts

Plugs, seals, screws

KREPTA 7
Wall-mounting
modular plastic distribution enclosure IP66

The increased degree of protection of the enclosure allows it to be used in premises with a high content of dust and moisture, for example, in industrial premises, garages, basements, car washes, in warehouses, as well as outdoors.
Designed for the assembly of distribution boards using modular equipment, for the input and distribution of electricity, as well as for the protection of 230/400 V networks from overload and short-circuit currents.

KREPTA

Advantages

- High quality polyurethane gasket provides additional protection against moisture and dust.
- The ability to lock the enclosure from unauthorized access.
- Convenience of assembly and installation.
- Captive screws.
- Wide product range.
- Extended operating temperature range − from −25 to +85°C.
- Complete set − ready to assemble.
- Stylish ergonomic design.

Specifications

Installation type	wall-mounted
Degree of protection	IP66
Protection class	II
Enclosure material	ABS
Door material	polycarbonate
Color	RAL 7035
Number of rows	from 1 to 3
Number of modules	from 4 to 48
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	100
Operating temperature, °C	−45÷+85
Climatic modification	N1
Impact strength	IK05 (0.7 J)

Design features

The opening direction of the front panel can be easily changed both to the right and to the left due to the plastic hinges.
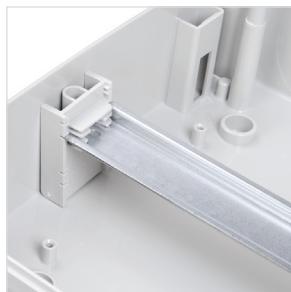
Increased distance between DIN rail and back panel. The DIN rail is adjustable in depth; plastic clips are used to install it.

Protection of the enclosure from unauthorized access is ensured by a three-sided key lock.

The removable N and PE busbar holder can be installed both at the top and at the bottom of the enclosureon special mounts. The N and PE tires themselves are installed on a removable holder by simply snapping into the seats.

Convenient and precise mounting of the enclosure is possible due to the special marking of holes for fixing the enclosure to the wall.

Easy and quick installation of glands due to breakout holes of various diameters located at the top and bottom of the enclosure.

Component parts
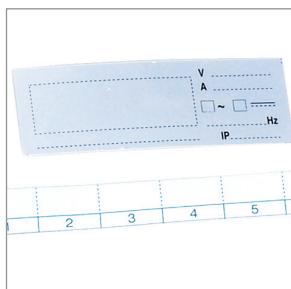
N and PE buses with a holder and a cover

Door hinges

Three-sided key lock

Modular and hole plugs

Metalware

Marking signs

Assortment

	Name	Standard size	N/PE bus	Weight, kg	Article
	Wall-mounting modular plastic distribution enclosure 4	1 row, 4 modules	5×10 mm^2 — 1 pc.	0.5	MKP73-N-04-66
	Wall-mounting modular plastic distribution enclosure 8	1 row, 8 modules	5×10 mm^2 + 5×16 mm^2 — 1 pc.	0.71	MKP73-N-08-66
	Wall-mounting modular plastic distribution enclosure 12	1 row, 12 modules	5×10 mm^2 + 5×16 mm^2 — 1 pc.	1.42	MKP73-N-12-66
	Wall-mounting modular plastic distribution enclosure 16	1 row, 16 modules	5×10 mm^2 + 5×16 mm^2 — 2 pcs.	1.78	MKP73-N-16-66
	Wall-mounting modular plastic distribution enclosure 24	2 rows, 24 modules	5×10 mm^2 + 5×16 mm^2 — 3 pcs.	2.32	MKP73-N-24-66
	Wall-mounting modular plastic distribution enclosure 32	2 rows, 32 modules	5×10 mm^2 + 5×16 mm^2 — 5 pcs.	2.75	MKP73-N-32-66
	Wall-mounting modular plastic distribution enclosure 48	3 rows, 48 modules		3.75	MKP73-N-48-66

Selection table for modular plastic enclosures

Modules	Number of rows				Degree of protection					Enclosure color				Door — Material		Door — Position		Door — Color			Type	Article
	1	2	3	4	IP20	IP30-31	IP41	IP55	IP66	White	Pine	Oak	Black	Plastic	Metal	Vertical	Horizontal	Transparent	White	Black		
Wall-mounting																						
2	•				•					•				•		•					Wall-mounting modular plastic distribution enclosure 1/2	MKP31-N-02-30-252
2	•				•							•		•		•					Wall-mounting modular plastic distribution enclosure 1/2	MKP31-N-02-30-252-D
2	•				•						•			•		•					Wall-mounting modular plastic distribution enclosure 1/2	MKP31-N-02-30-252-S
2	•					•				•				•		•		•			Wall-mounting modular plastic distribution enclosure 2/2	MKP42-N-02-30-20
2	•					•						•		•		•		•			Wall-mounting modular plastic distribution enclosure 2/2	MKP42-N-02-30-20-D
2	•					•					•			•		•		•			Wall-mounting modular plastic distribution enclosure 2/2	MKP42-N-02-30-20-S
4	•				•					•				•		•					Wall-mounting modular plastic distribution enclosure 1/4	MKP31-N-04-30-135
4	•				•							•		•		•					Wall-mounting modular plastic distribution enclosure 1/4	MKP31-N-04-30-135-D
4	•				•						•			•		•					Wall-mounting modular plastic distribution enclosure 1/4	MKP31-N-04-30-135-S
4	•					•				•				•		•		•			Wall-mounting modular plastic distribution enclosure 2/4	MKP42-N-04-30-12
4	•					•						•		•		•		•			Wall-mounting modular plastic distribution enclosure 2/4	MKP42-N-04-30-12-D
4	•					•					•			•		•		•			Wall-mounting modular plastic distribution enclosure 2/4	MKP42-N-04-30-12-S
4	•						•			•				•		•		•			Wall-mounting modular plastic distribution enclosure-4	MKP12-N-04-40-20
4	•						•						•	•		•		•			Wall-mounting modular plastic distribution enclosure-4	MKP12-N-04-41-K02
4	•						•						•	•		•				•	Wall-mounting modular plastic distribution enclosure-4	MKP13-N-04-41-K02
4	•						•			•				•			•	•			Wall-mounting modular plastic distribution enclosure-4 PRIME	MKP82-N-04-41-20
4	•						•			•				•			•		•		Wall-mounting modular plastic distribution enclosure-4 PRIME	MKP82-N-04-WD-41-20
4	•						•							•			•			•	Wall-mounting modular plastic distribution enclosure-4 PRIME	MKP13-N-01-04-41-K02
4	•								•	•				•		•		•			Wall-mounting modular plastic distribution enclosure-4	MKP73-N-04-66
5	•							•		•				•			•	•			Wall-mounting modular plastic distribution enclosure-5	MKP72-N3-05-55
6	•					•				•				•		•		•			Wall-mounting modular plastic distribution enclosure 2/6	MKP42-N-06-30-09
6	•					•						•		•		•		•			Wall-mounting modular plastic distribution enclosure 2/6	MKP42-N-06-30-09-D
6	•					•					•			•		•		•			Wall-mounting modular plastic distribution enclosure 2/6	MKP42-N-06-30-09-S
6	•						•			•				•		•		•			Wall-mounting modular plastic distribution enclosure-6	MKP12-N-06-40-20
6	•						•				•			•		•		•			Wall-mounting modular plastic distribution enclosure-6	MKP12-N-06-41-K34
6	•						•						•	•		•		•			Wall-mounting modular plastic distribution enclosure-6	MKP12-N-06-41-K02
6	•						•						•	•		•				•	Wall-mounting modular plastic distribution enclosure-6	MKP13-N-06-41-K02
6	•						•			•				•			•	•			Wall-mounting modular plastic distribution enclosure 6 PRIME	MKP82-N-06-41-20
6	•						•			•				•			•		•		Wall-mounting modular plastic distribution enclosure 6 PRIME	MKP82-N-06-WD-41-20
6	•						•						•	•			•			•	Wall-mounting modular plastic distribution enclosure 6 PRIME	MKP13-N-01-06-41-K02
8	•						•			•				•		•		•			Wall-mounting modular plastic distribution enclosure-8	MKP12-N-08-40-20
8	•						•				•			•		•		•			Wall-mounting modular plastic distribution enclosure-8	MKP12-N-08-41-K34
8	•						•						•	•		•		•			Wall-mounting modular plastic distribution enclosure-8	MKP12-N-08-41-K02
8	•						•						•	•		•				•	Wall-mounting modular plastic distribution enclosure-8	MKP13-N-08-41-K02
8	•								•	•				•		•		•			Wall-mounting modular plastic distribution enclosure-8	MKP73-N-08-66
9	•					•				•				•		•		•			Wall-mounting modular plastic distribution enclosure-2/9-1	MKP42-N-09-31-01
9	•					•				•				•		•		•			Wall-mounting modular plastic distribution enclosure-2/9-2	MKP42-N-09-31-02
9	•					•						•		•		•		•			Wall-mounting modular plastic distribution enclosure-2/9-2	MKP42-N-09-31-02-D
9	•					•					•			•		•		•			Wall-mounting modular plastic distribution enclosure-2/9-2	MKP42-N-09-31-02-S
9	•						•			•				•			•	•			Wall-mounting modular plastic distribution enclosure 9 PRIME	MKP82-N-09-41-20
9	•						•			•				•			•		•		Wall-mounting modular plastic distribution enclosure 9 PRIME	MKP82-N-09-WD-41-20
9	•						•						•	•			•			•	Wall-mounting modular plastic distribution enclosure 9 PRIME	MKP13-N-01-09-41-K02
9	•							•		•				•			•	•			Wall-mounting modular plastic distribution enclosure-9	MKP72-N3-09-55
10	•						•			•				•		•		•			Wall-mounting modular plastic distribution enclosure-10	MKP12-N-04-10-41

Modules	Number of rows				Degree of protection					Enclosure color				Door								Type	Article
														Material		Position		Color					
	1	2	3	4	IP20	IP30-31	IP41	IP55	IP66	White	Pine	Oak	Black	Plastic	Metal	Vertical	Horizontal	Transparent	White	Black			
Wall-mounting																							
12	•						•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-12	MKP12-N-12-40-10
12	•						•				•			•		•		•				Wall-mounting modular plastic distribution enclosure-12	MKP12-N-12-41-K34
12	•						•						•	•		•		•				Wall-mounting modular plastic distribution enclosure-12	MKP12-N-12-41-K02
12	•						•						•	•		•				•		Wall-mounting modular plastic distribution enclosure-12	MKP13-N-12-41-K02
12	•						•			•				•			•	•				Wall-mounting modular plastic distribution enclosure 12 PRIME	MKP82-N-12-41-10
12	•						•			•				•			•		•			Wall-mounting modular plastic distribution enclosure 12 PRIME	MKP82-N-12-WD-41-10
12	•						•						•	•			•			•		Wall-mounting modular plastic distribution enclosure 12 PRIME	MKP13-N-01-12-41-K02
12	•							•		•				•			•	•				Wall-mounting modular plastic distribution enclosure-12	MKP72-N3-12-55
12	•								•	•				•		•		•				Wall-mounting modular plastic distribution enclosure-12	MKP73-N-12-66
15	•						•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-15	MKP12-N-04-15-41
16	•								•	•				•		•		•				Wall-mounting modular plastic distribution enclosure-16	MKP73-N-16-66
18	•						•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-18	MKP12-N-18-40-10
18	•						•				•			•		•		•				Wall-mounting modular plastic distribution enclosure-18	MKP12-N-18-41-K34
18	•						•						•	•		•		•				Wall-mounting modular plastic distribution enclosure-18	MKP12-N-18-41-K02
18	•						•						•	•		•				•		Wall-mounting modular plastic distribution enclosure-18	MKP13-N-18-41-K02
18	•						•			•				•			•	•				Wall-mounting modular plastic distribution enclosure 18 PRIME	MKP82-N-18-41-10
18	•						•			•				•			•		•			Wall-mounting modular plastic distribution enclosure 18 PRIME	MKP82-N-18-WD-41-10
18	•						•						•	•			•			•		Wall-mounting modular plastic distribution enclosure 18 PRIME	MKP13-N-01-18-41-K02
18	•							•		•				•			•	•				Wall-mounting modular plastic distribution enclosure-18	MKP72-N3-18-55
24		•					•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-24	MKP12-N-24-40-10
24		•					•						•	•		•		•				Wall-mounting modular plastic distribution enclosure-24	MKP12-N-24-41-K02
24		•					•						•	•		•				•		Wall-mounting modular plastic distribution enclosure-24	MKP13-N-24-41-K02
24		•					•			•				•			•	•				Wall-mounting modular plastic distribution enclosure 24 PRIME	MKP82-N-24-41-10
24		•					•			•				•			•		•			Wall-mounting modular plastic distribution enclosure 24 PRIME	MKP82-N-24-WD-41-10
24		•					•						•	•			•			•		Wall-mounting modular plastic distribution enclosure 24 PRIME	MKP13-N-01-24-41-K02
24		•						•		•				•			•	•				Wall-mounting modular plastic distribution enclosure-24	MKP72-N3-24-55
24		•							•	•				•		•		•				Wall-mounting modular plastic distribution enclosure-24	MKP73-N-24-66
32		•							•	•				•		•		•				Wall-mounting modular plastic distribution enclosure-32	MKP73-N-32-66
36			•				•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-36	MKP12-N-36-40-05
36			•				•						•	•		•		•				Wall-mounting modular plastic distribution enclosure-36	MKP12-N-36-41-K02
36			•				•						•	•		•				•		Wall-mounting modular plastic distribution enclosure-36	MKP13-N-36-41-K02
36			•				•			•				•			•	•				Wall-mounting modular plastic distribution enclosure 36 PRIME	MKP82-N-36-41-05
36			•				•			•				•			•		•			Wall-mounting modular plastic distribution enclosure 36 PRIME	MKP82-N-36-WD-41-05
36			•				•						•	•			•			•		Wall-mounting modular plastic distribution enclosure 36 PRIME	MKP13-N-01-36-41-K02
36			•					•		•				•			•	•				Wall-mounting modular plastic distribution enclosure-36	MKP72-N3-36-55
45			•				•			•				•		•		•				Wall-mounting modular plastic distribution enclosure-45	MKP12-N-04-45-41
48			•						•	•				•		•		•				Wall-mounting modular plastic distribution enclosure-48	MKP73-N-48-66

Plastic enclosures

Modules	Number of rows				Degree of protection					Enclosure color				Door — Material		Door — Position		Door — Color			Type	Article
	1	2	3	4	IP20	IP30-31	IP41	IP55	IP66	White	Pine	Oak	Black	Plastic	Metal	Vertical	Horizontal	Transparent	White	Black		
Flush-mounting																						
3	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure-3	MKP12-V-04-03-41
4	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 4	MKP12-V-04-40-20
4	•						•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 4	MKP12-V-04-41-K02
4	•						•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 4	MKP13-V-04-41-K02
4	•						•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-4 PRIME	MKP82-V-04-41-20
4	•						•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-4 PRIME	MKP82-V-04-WD-41-20
4	•						•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-4 PRIME	MKP13-V-01-04-41-K02
6	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 6	MKP12-V-06-40-20
6	•						•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 6	MKP12-V-06-41-K02
6	•						•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 6	MKP13-V-06-41-K02
6	•						•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-6 PRIME	MKP82-V-06-41-20
6	•						•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-6 PRIME	MKP82-V-06-WD-41-20
6	•						•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-6 PRIME	MKP13-V-01-06-41-K02
8	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 8	MKP12-V-08-40-20
8	•						•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 8	MKP12-V-08-41-K02
8	•						•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 8	MKP13-V-08-41-K02
9	•						•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-9 PRIME	MKP82-V-08-41-20
9	•						•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-9 PRIME	MKP82-V-09-WD-41-20
9	•						•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-9 PRIME	MKP13-V-01-09-41-K02
10	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure-10	MKP12-V-04-10-41
12	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 12	MKP12-V-12-40-10
12	•						•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 12	MKP12-V-12-41-K02
12	•						•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 12	MKP13-V-12-41-K02
12	•						•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-12 PRIME	MKP82-V-12-41-10
12	•						•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-12 PRIME	MKP82-V-12-WD-41-10
12	•						•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-12 PRIME	MKP13-V-01-12-41-K02
14	•					•				•					•		•			•	Flush-mounting modular plastic distribution enclosure 4/14	MKP54-V-14-30-01
15	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure-15	MKP12-V-04-15-41
18	•						•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 18	MKP12-V-18-40-10
18	•						•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 18	MKP12-V-18-41-K02
18	•						•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 18	MKP13-V-18-41-K02
18	•						•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-18 PRIME	MKP82-V-18-41-10
18	•						•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-18 PRIME	MKP82-V-18-WD-41-10
18	•						•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-18 PRIME	MKP13-V-01-18-41-K02
24		•					•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 24	MKP12-V-24-40-10
24		•					•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 24	MKP12-V-24-41-K02
24		•					•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 24	MKP13-V-24-41-K02
24		•					•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-24 PRIME	MKP82-V-24-41-10
24		•					•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-24 PRIME	MKP82-V-24-WD-41-10
24		•					•						•	•			•			•	Flush-mounting modular plastic distribution enclosure-24 PRIME	MKP13-V-01-24-41-K02
28		•				•				•					•		•			•	Flush-mounting modular plastic distribution enclosure 4/28	MKP54-V-28-30-01
36			•				•			•				•		•		•			Flush-mounting modular plastic distribution enclosure 36	MKP12-V-36-40-05
36			•				•						•	•		•		•			Flush-mounting modular plastic distribution enclosure 36	MKP12-V-36-41-K02

Modules	Number of rows				Degree of protection					Enclosure color				Door							Type	Article
														Material		Position		Color				
	1	2	3	4	IP20	IP30-31	IP41	IP55	IP66	White	Pine	Oak	Black	Plastic	Metal	Vertical	Horizontal	Transparent	White	Black		
Flush-mounting																						
36		•					•						•	•		•				•	Flush-mounting modular plastic distribution enclosure 36	MKP13-V-36-41-K02
36		•					•			•				•		•		•			Flush-mounting modular plastic distribution enclosure-36 LIGHT	MKP12-V-36-40-05-L
36		•					•			•				•			•	•			Flush-mounting modular plastic distribution enclosure-36 PRIME	MKP82-V-36-41-05
36		•					•			•				•			•		•		Flush-mounting modular plastic distribution enclosure-36 PRIME	MKP82-V-36-WD-41-05
36		•					•						•	•		•				•	Flush-mounting modular plastic distribution enclosure-36 PRIME	MKP13-V-01-36-41-K02
42		•				•				•					•	•			•		Flush-mounting modular plastic distribution enclosure 4/42	MKP54-V-42-30-01
45		•					•			•				•		•		•			Flush-mounting modular plastic distribution enclosure-45	MKP12-V-04-45-41
56			•			•				•					•	•			•		Flush-mounting modular plastic distribution enclosure 4/56	MKP54-V-56-30-01

Plastic panels for meter installation

Designed for installation of single-phase and three-phase meters.

Modular devices for the distribution of electricity and protection of networks against overload and short-circuit current with a voltage of up to 400 V, 50 Hz can be installed in the panels with boxes simultaneously with the placement of a single-phase or three-phase meter for electricity metering.

Advantages

- The panels are made of self-extinguishing PVC.
- Panels with enclosures are equipped with N and PE buses.
- Sealing holes protect against unauthorized access.
- Easy and quick installation.

Specifications

Installation type	wall-mounted
Degree of protection	IP20 (IP40 with box)
Enclosure material	PVC
White color	RAL 9010
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	63
Meter type for installation	1-phase, 3-phase

Assortment

	Name	Enclosure size	N and PE buses	Quantity in a package	Article
	Plastic panel for 1-phase meter installation 1/2-6 with enclosure	6 modules	6x9 mm 4/1 – 1 pc.; 6x9 mm 6/1 – 1 pc.	28	MPP10-1
	Plastic panel for 3-phase meter installation 3/2-8 with enclosure	8 modules	2×16 mm^2 + 7×10 mm^2 — 2 pcs.	24	MPP10-3
	Plastic panel for 1-phase meter installation 1/0			105	MPP11-1
	Plastic panel for 3-phase meter installation 3/0			64	MPP11-3
	Universal plastic panel for meter installation 2/0			90	MPP11-2

Wall-mounting plastic enclosure for metering and distribution IP55

Wall-mounting plastic enclosures for metering and distribution IP55 are designed for the installation of a single-phase, three-phase or induction electricity meter and modular equipment.

Due to the high degree of protection IP55, the enclosures can be installed in rooms with high levels of humidity and dust content, as well as outdoors.

Advantages

- Wide product range.
- Complete set − ready to assemble.
- Break-out openings for cable entry in the upper and lower parts of the enclosure.
- Possibility of installing single-phase, three-phase and induction meters (depending on the model).
- Possibility of installing the meter on a mounting panel or on a DIN-rail.
- Visual access to meter readings.
- Comfortable removable covers for quick access to circuit breakers.

Specifications

Installation type	wall-mounted
Degree of protection	IP55
Protection class	II
Impact resistance	IK05 (0.7 J)
Enclosure material	ABS
Rated voltage, V	400
Rated frequency, Hz	50
Rated current, A	63
Operating temperature, °C	−25÷+60
Climatic modification	N1
The number of single-pole circuit breakers installed in the enclosure	from 3 to 12 (depending on the model)
Type of installed meter (depending on the model)	single-phase/three-phase/induction

Design features

Removable covers for quick access to circuit breakers.

Possibility of sealing the incoming switch using the sealing device included in the standard package.

Possibility of sealing enclosures in models wall-mounting plastic enclosures for metering and distribution 3/8, 3/8 I, 3/6, 3/7-2.

Possibility of installing the meter on a mounting panel or on a DIN-rail.

Break-out openings for cable entry in the upper and lower parts of the enclosure.

Component parts

DIN rail

Glands

N/PE bus
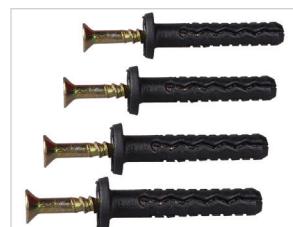
Plastic dowels, screws

Sealing device for an incoming switch

Assortment

	Name	Counter type	Number of modules	Overall and installation dimensions (H×W×D), mm	Article
	Wall-mounting plastic enclosure for metering and distribution 3/8 IP55	1-phase 3-phase	8	365×225×120	MSP308-3-55
	Wall-mounting plastic enclosure for metering and distribution 3/8 I IP55	1-phase 3-phase induction	8	365×225×145	MSP308I-3-55
	Wall-mounting plastic enclosure for metering and distribution 1/3 IP55	1-phase	3	220×270×110	MSP103-1-55
	Wall-mounting plastic enclosure for metering and distribution 3/6 IP55	1-phase 3-phase	6	400×350×125	MSP306-3-55
	Wall-mounting plastic enclosure for metering and distribution 3/7-2 IP55	1-phase 3-phase	9	380x245x114	MSP372-3-55
	Wall-mounting plastic enclosure for metering and distribution 3/10 IP55	1-phase 3-phase	10	345×270×105	MSP310-3-55
	Wall-mounting plastic enclosure for metering and distribution 1/12 IP55	1-phase 3-phase	12	270×330×110	MSP112-1-55
	Pole mounting kit for wall-mounting plastic enclosure for metering and distribution: bolt M8x10 – 4 pcs.; bolt M8x70 – 4 pcs.; nut M8 – 8 pcs.; welding bar – 2 pcs.; bracket – 4 pcs.; sealing rings – 4 pcs.				MSP-300-2-M

IEK

KREPTA 5
Wall-mounting plastic enclosures
for metering and distribution IP66

Wall-mounting plastic enclosure for metering and distribution IP66 are designed for installation of 1-phase and 3-phase AC meters 220-380 V, 50 Hz, as well as modular equipment.
These enclosures can be mounted outdoors without a visor.

KREPTA

Advantages

- UV resistant.
- High degree of protection IP66 due to the seal.
- Convenient access to circuit breakers, the ability to install up to 12 circuit breakers.
- Holes for mounting on a mounting tape (except for wall-mounting plastic enclosure for metering and distribution 1/3 IP66 PC IEK®).
- Special hinges for quick door removal (removed when the door is open).
- Possibility of sealing the door (for wall-mounting plastic enclosures for metering and distribution 1/3 IP 66 PC IEK® and wall-mounting plastic enclosure for metering and distribution 3/12 IP 66 PC IEK®) and the enclosure.
- Complete set – ready to assemble.
- Break-out openings for cable entry in the upper and lower parts of the enclosure.
- Possibility of installing single-phase, three-phase and induction meters (depending on the model).
- Possibility of installing the meter on a mounting panel or on a DIN-rail.
- Visual access to meter readings.

Specifications

Installation type	wall-mounted
Degree of protection	IP66
Protection class	II
Impact resistance	IK08 (5 J)
Enclosure material	ABS
Door material	polycarbonate
Rated current, A	100
Operating temperature, °C	−40÷+80
Climatic modification	N1
Service life	more than 15 years
The number of single-pole circuit breakers installed in the enclosure	from 3 to 12 (depending on the model)
Number of rows	from 1 to 2
Type of installed meter (depending on the model)	single-phase/three-phase/induction

Design features

High degree IP66 due to the seal.
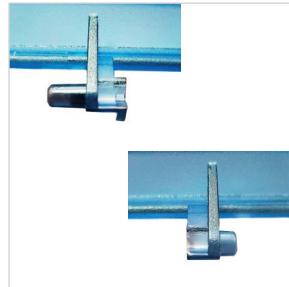
Special hinges for quick door removal.

The possibility of sealing the enclosure and the door (depends on the model).

Holes for mounting on a mounting tape (except for wall-mounting plastic enclosure for metering and distribution 1/3 IP66 PC IEK®).

UV
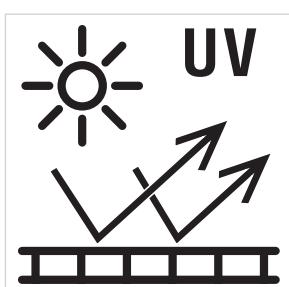
Resistant to UV rays due to the material properties of the enclosure.

Convenient access to circuit breakers, the ability to install up to 12 circuit breakers.

Installing the meter on a mounting panel and on a DIN rail.

Color consumer package*.

Component parts

DIN rail

Glands and plugs**
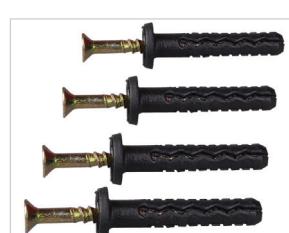
Plastic dowels, screws

Sign "High Voltage"

* Individual packaging of the standard series – colored consumer cardboard packaging. Individual packaging for the LIGHT series – a plastic bag with a sticker
** LIGHT series is not equipped with glands

KREPTA

Assortment

	Name	Counter type	Quantity of modules	Article
	Wall-mounting plastic enclosure for metering and distribution 1/3 IP66 PC	1-phase	3	MSP1-N-03-55
	Wall-mounting plastic enclosure for metering and distribution 1/3 IP66 LIGHT			MSP1-N-03-66-L
	Wall-mounting plastic enclosure for metering and distribution 1/8 IP66 PC	1-phase 3-phase induction	8	MSP1-N-08-55
	Wall-mounting plastic enclosure for metering and distribution 1/8 IP66 PC LIGHT			MSP1-N-08-66-L
	Wall-mounting plastic enclosure for metering and distribution 3/6 IP66 PC	1-phase 3-phase induction	6	MSP3-N-06-55
	Wall-mounting plastic enclosure for metering and distribution 3/6 IP66 PC LIGHT			MSP3-N-06-66-L
	Wall-mounting plastic enclosure for metering and distribution 3/12 IP66 PC	1-phase 3-phase induction	12	MSP3-N-12-55
	Wall-mounting plastic enclosure for metering and distribution 3/12 IP66 PC LIGHT			MSP3-N-12-66-L

IEK

KREPTA 7
Polyester enclosures for meter installation IP54

Polyester enclosures for power input and metering boards are designed for the installation of electricity meters and modular equipment. Due to design and materials can be installed in rooms with a high content of dust, moisture and harmful substances, as well as outdoors.

Advantages

- High degree of protection against mechanical damage.
- Full set.
- High level of electrical and fire safety.
- The enclosures do not need painting and grounding during installation.
- Possibility to operate outdoors and in rooms with a high content of harmful substances.

Specifications

Installation type	wall-mounted
Degree of protection	IP54
Protection class	II
Enclosure material	polyester
Color	RAL 7035
Rated voltage	400 V
Rated dielectric strength	660 V
Service life	30 years
Operating temperature, °C	−50÷+70
Climatic modification	NF1
Impact resistance	IK10 (20 J)

Design features

Possibility of sealing the blanking plate by means of seal-latches.

A window for prompt reading of the electricity meter.

Mounting panel for installing any type of meter.

Component parts

DIN rail

Lock

Mounting panel

Blanking plate

Latching seals

Glands (for polyester enclosures 1/1)

Metalware (for polyester enclosures 1/1)

IEK

Assortment

	Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Weight	Article
	Polyester enclosure 1/1 NF1 IP54	1-phase	10	430×270×160	3.3	MKP50-N-01-54
	Polyester enclosure 3/1 NF1 IP54	3-phase	10	550×280×160	4.5	MKP50-N-03-54

Plastic enclosures
with mounting panel IP65

Plastic enclosures IP65 with mounting panel are made of impact resistant ABS plastic and are designed to provide reliable protection of equipment in power distribution systems and process automation, as well as to accommodate and protect various electrical and electronic components from environmental influences.

Advantages

- High degree of protection against mechanical damage.
- Full set.
- High level of electrical and fire safety.
- The enclosures do not need painting and grounding during installation.
- Possibility to operate outdoors and in rooms with a high content of harmful substances.

Specifications

Material	impact resistant ABS plastic
Enclosure color	gray, RAL 7035
Degree of protection	IP65
Impact resistance	IK10 (20 J)
Protection class	II
Installation type	wall-mounted
Operation temperature	−45 °C÷+80 °C
Climatic modification	NF1
Glow-wire test of the enclosure	650°C
Door opening angle	200°

iEK

Design features

Galvanized mounting panel included.

Mounting brackets are convenient for mounting and allow you to save the IP65 protection level

High IP grade due to the polyurethane gasket.

Three-sided key lock.

Stiffeners provide impact resistance: IK10 (20 J).

Colored consumer packaging.*

Component parts

Galvanized mounting panel

Key lock
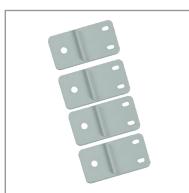
Wall mount brackets

Sign "High Voltage"

Set of metalware

*Individual packaging of enclosures with a transparent door — white box with a sticker.

Assortment

	Name	Mounting panel size (H×W), mm	Door type	Article
	Plastic enclosure with mounting panel 300×200×130	249×143	Gray (RAL 7035)	MKP93-N-302013-65
			transparent	MKP92-N-302013-65
	Plastic enclosure with mounting panel 350×250×150	296×190	Gray (RAL 7035)	MKP93-N-352515-65
			transparent	MKP92-N-352515-65
	Plastic enclosure with mounting panel 400×300×170	348×241	Gray (RAL 7035)	MKP93-N-403017-65
			transparent	MKP92-N-403017-65
	Plastic enclosure with mounting panel 400×300×220	348×241	Gray (RAL 7035)	MKP93-N-403022-65
			transparent	MKP92-N-403022-65
	Plastic enclosure with mounting panel 500×350×190	450×288	Gray (RAL 7035)	MKP93-N-503519-65
			transparent	MKP92-N-503519-65

IEK

Name	mounting panel size (H×W), mm	Door type	Article
Plastic enclosure with mounting panel 500×400×180	450×288	Gray (RAL 7035)	MKP93-N-504018-65
		transparent	MKP92-N-504018-65
Plastic enclosure with mounting panel 500×400×240	450×288	Gray (RAL 7035)	MKP93-N-504024-65
		transparent	MKP92-N-504024-65
Plastic enclosure with mounting panel 600×400×200	445×336	Gray (RAL 7035)	MKP93-N-604020-65
		transparent	MKP92-N-604020-65
Plastic enclosure with mounting panel 700×500×250	650×440	Gray (RAL 7035)	MKP93-N-705025-65
		transparent	MKP92-N-705025-65
Plastic enclosure with mounting panel 800×600×260	724x543	Gray (RAL 7035)	MKP93-N-806026-65
		transparent	MKP92-N-806026-65

TETRA 7
Polyester enclosures with mounting panel IP54

Polyester enclosures with a mounting panel are designed for assembling a variety of electrical panels: power, control, automation.
They allow installation of both modular and conventional equipment.
Due to the properties of the material from which they are made, they are universal for use in any conditions and on any objects:
in rooms with a high concentration of acid, salt and dust, at objects of the transport system, as well as in the open air.

TETRA

Advantages

- High degree of protection against mechanical damage.
- Full set.
- High level of electrical and fire safety.
- The enclosures do not need painting and grounding during installation.
- Possibility to operate outdoors and in rooms with a high content of harmful substances.

Specifications

Installation type	wall-mounted
Degree of protection	IP54
Protection class	II
Enclosure material	polyester
Color	RAL 7035
Rated voltage	400 V
Rated dielectric strength	660 V
Service life	30 years
Operating temperature, °C	−50÷+70
Climatic modification	NF1
Impact resistance	IK10 (20 J)

Design features

Sloped roof for water drainage.

The labyrinth system provides IP54 enclosure protection without the use of a seal.

The possibility of assembling enclosures into blocks due to the modular design.

Possibility of re-hanging the door.

Component parts

Lock

Mounting panel

Assortment

Name	Overall dimensions (H×W×D), mm	mounting panel dimensions (H×W), mm	Weight	Article
Polyester enclosure with mounting panel 280×220×116 280x220x116 mm NF1 IP54	230×160		1.8	YKP40-N-221-54
Polyester enclosure with mounting panel 440×400×205 440x400x205 mm NF1 IP54	350×350		6.6	YKP40-N-442-54
Polyester enclosure with mounting panel 640×400×205 640x400x205 mm NF1 IP54	500×350		8.6	YKP40-N-642-54

Dimensions

Wall-mounting modular plastic distribution enclosures
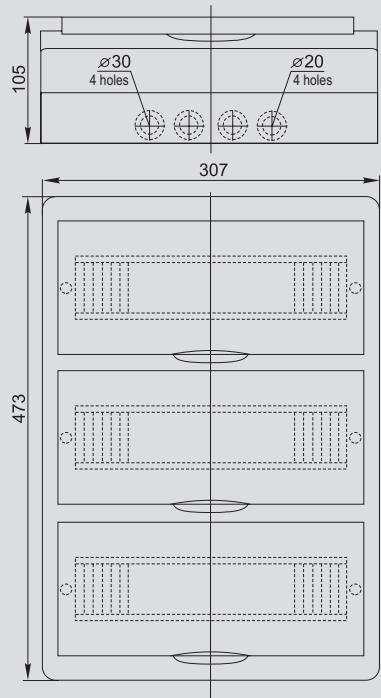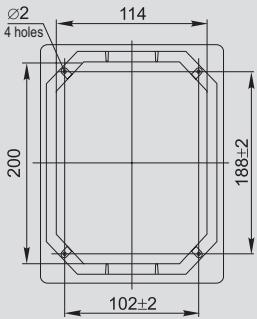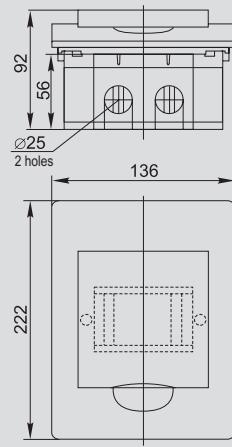## IP20, IP30, IP31

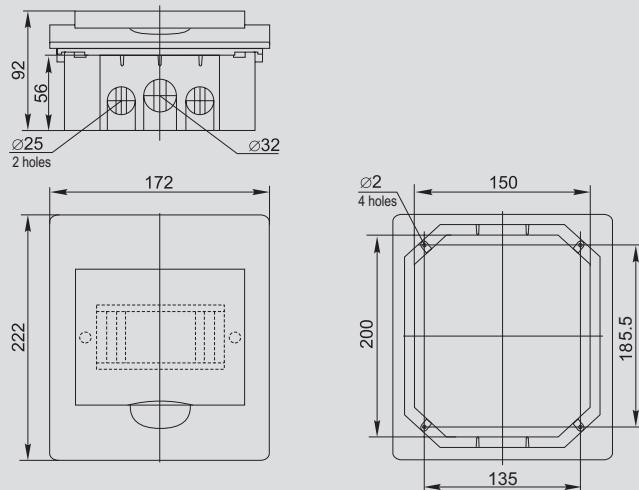Wall-mounting modular plastic distribution enclosure-1/2
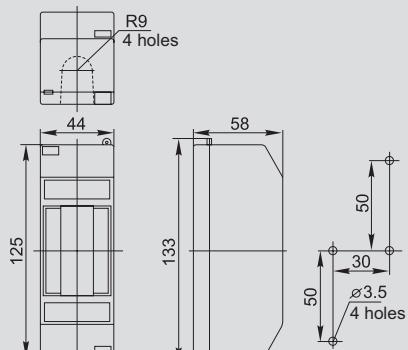
Wall-mounting modular plastic distribution enclosure-2/6
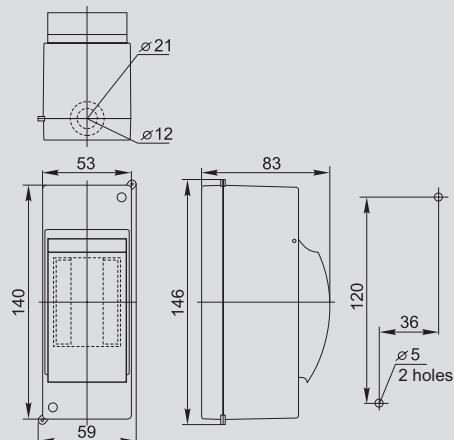
Wall-mounting modular plastic distribution enclosure-1/4
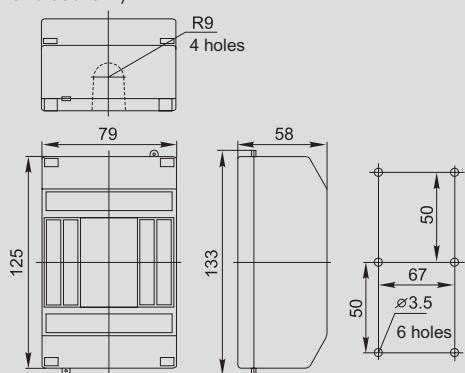
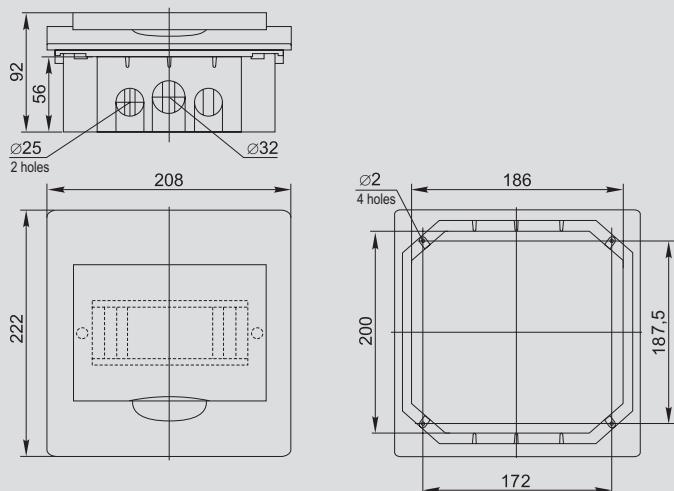Wall-mounting modular plastic distribution enclosure-2/2
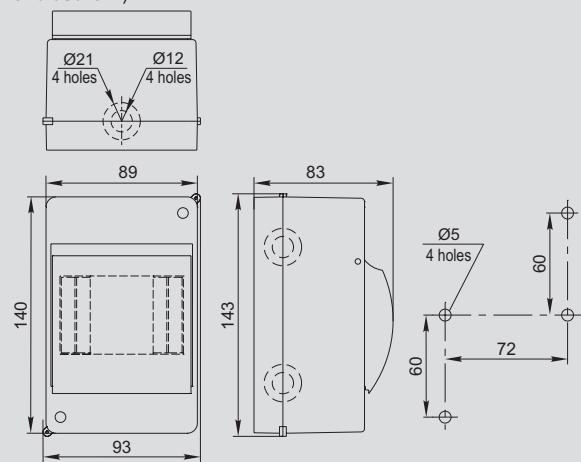
Wall-mounting modular plastic distribution enclosure-2/4
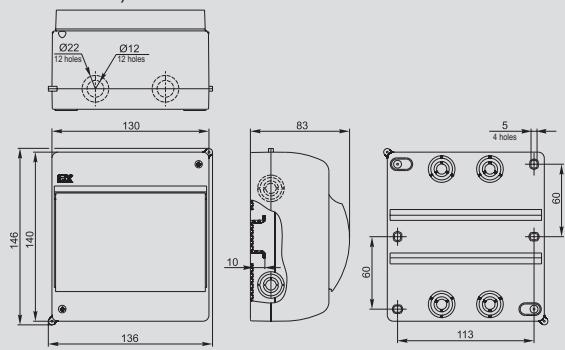
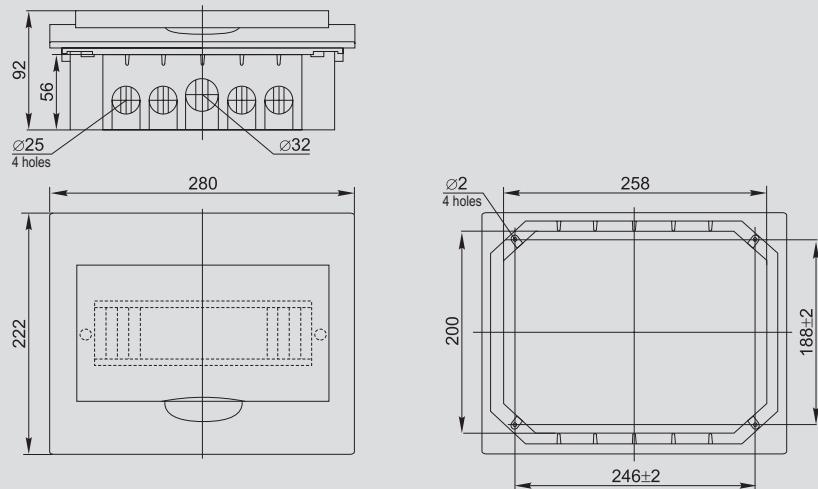Wall-mounting modular plastic distribution enclosure 2/9-1, wall-mounting modular plastic distribution enclosure 2/9-2
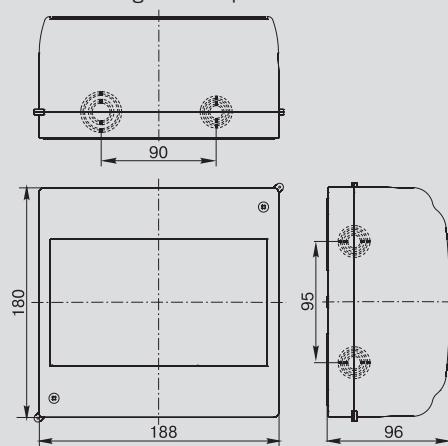
Flush-mounting modular plastic distribution enclosures with a metal door, IP30

Flush-mounting modular plastic distribution enclosure 4/14

92
88
315
310
359
339

Flush-mounting modular plastic distribution enclosure 4/28

92
88
315
433
359
464

Flush-mounting modular plastic distribution enclosure 4/42

92
88
315
558
359
589

Flush-mounting modular plastic distribution enclosure 4/56

92
88
315
684
359
714
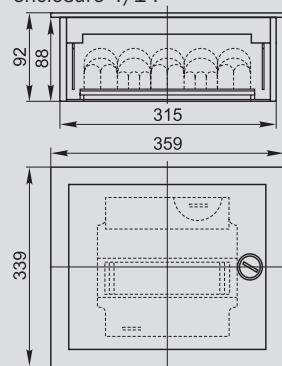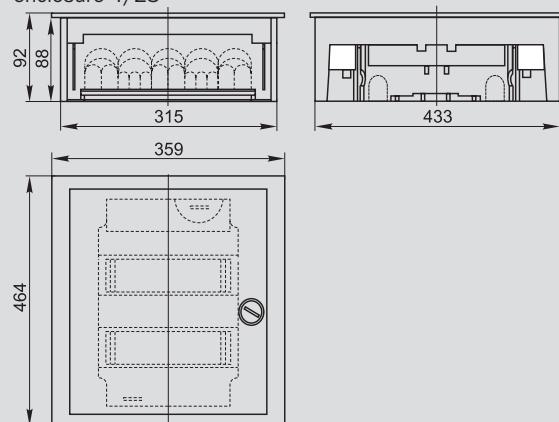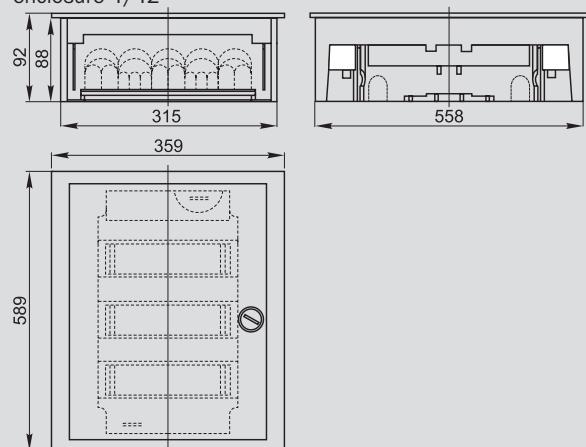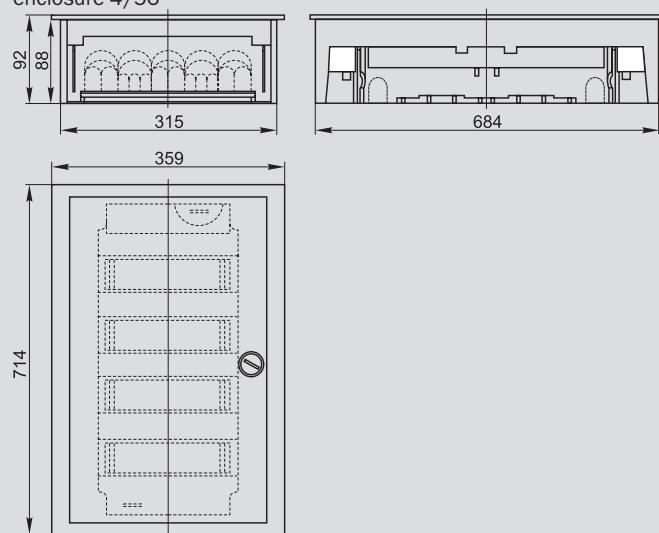
Wall (flush)-mounting plastic distribution enclosures IP41 IEK

Wall-mounting modular plastic distribution enclosure-4
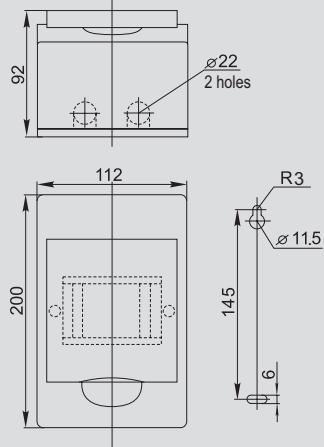
Wall-mounting modular plastic distribution enclosure-6
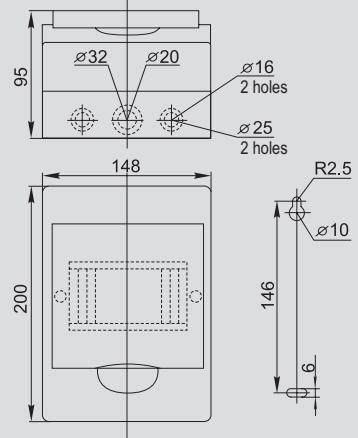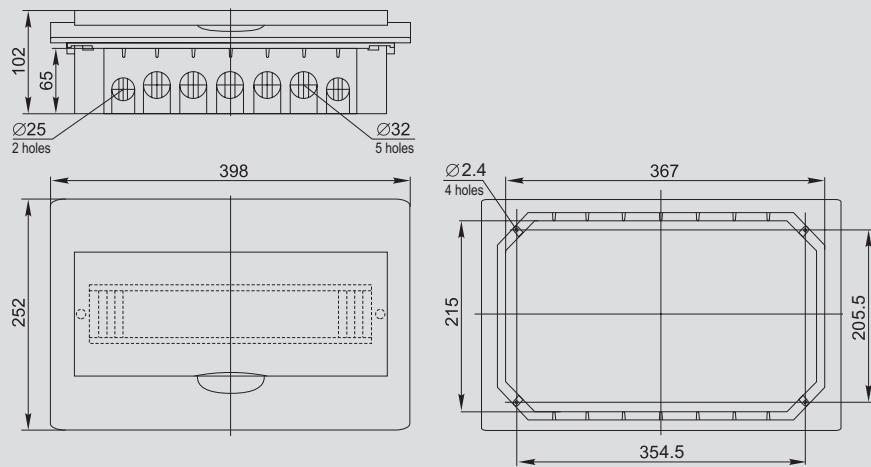
Wall-mounting modular plastic distribution enclosure-8
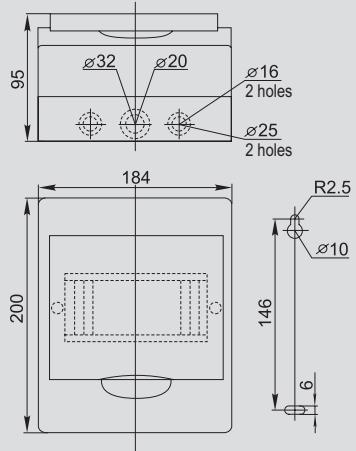
Wall-mounting modular plastic distribution enclosure-12
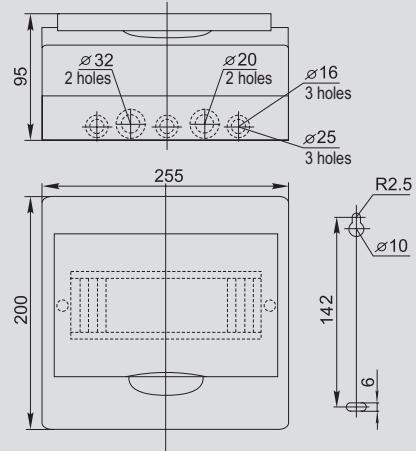
Wall-mounting modular plastic distribution enclosure-18
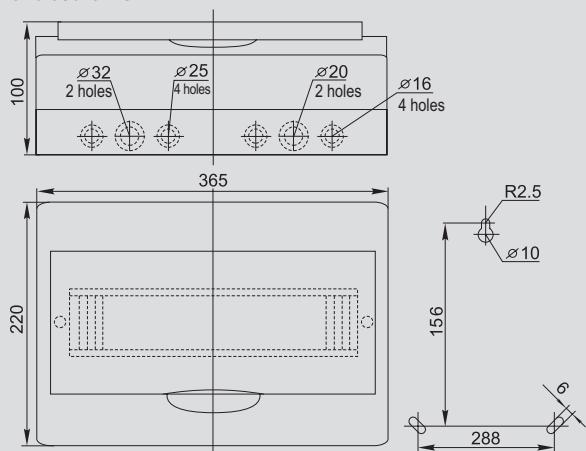
Wall-mounting modular plastic distribution enclosure-24
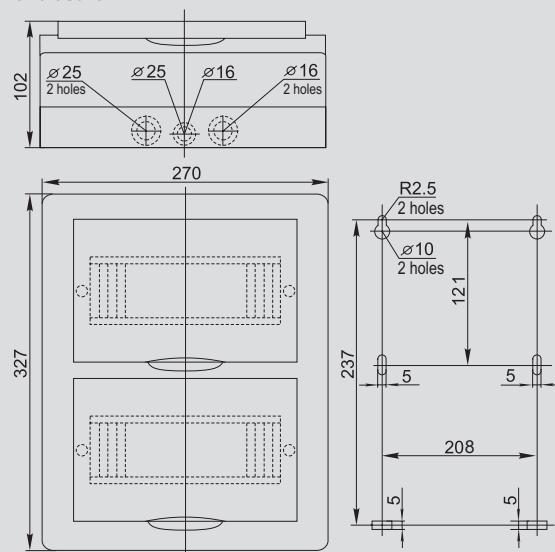
Wall-mounting modular plastic distribution enclosure-36

Flush-mounting modular plastic distribution enclosure 4

Flush-mounting modular plastic distribution enclosure 6

Flush-mounting modular plastic distribution enclosure 8

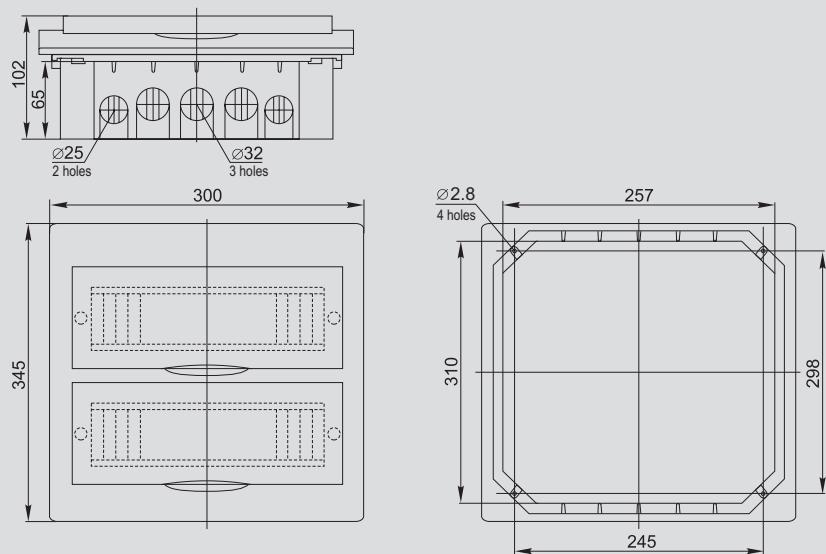Flush-mounting modular plastic distribution enclosure 12
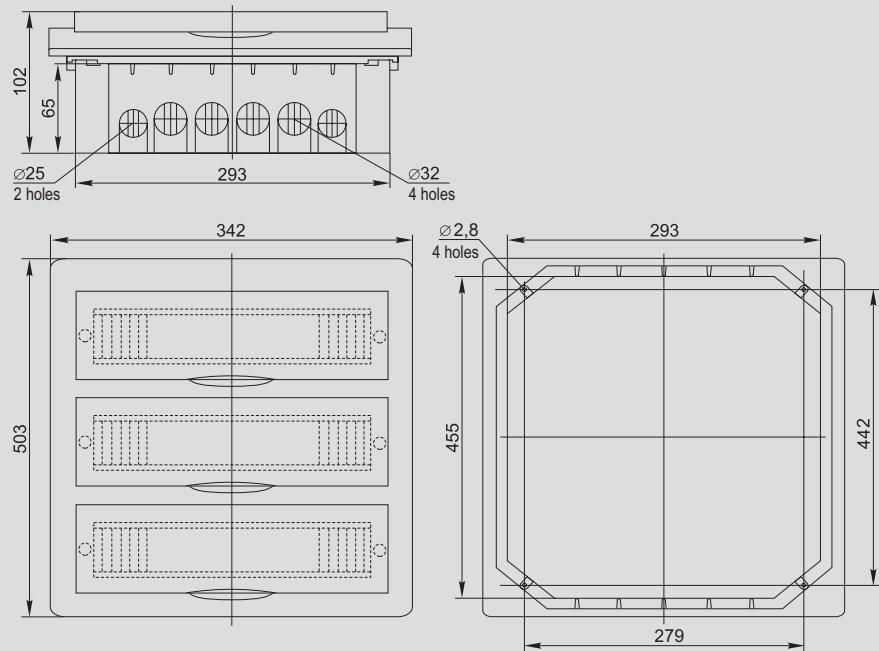

Flush-mounting modular plastic distribution enclosure 18
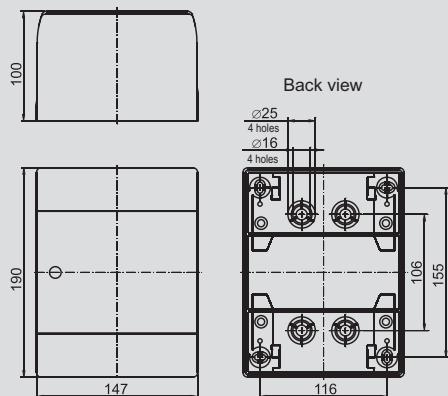

Flush-mounting modular plastic distribution enclosure 24

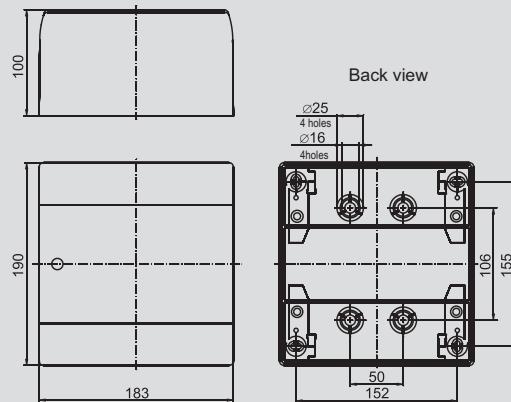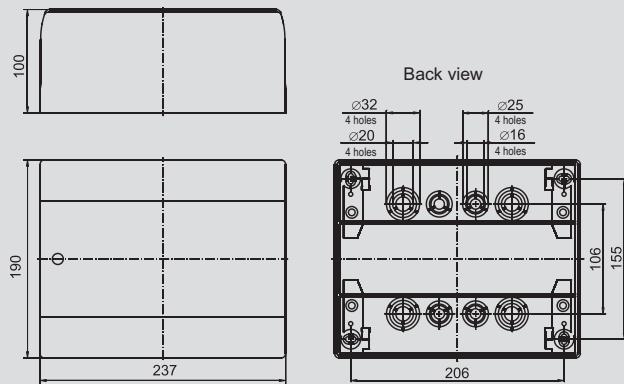Flush-mounting modular plastic distribution enclosure 36

⌀25
2 holes

102
65
293

⌀32
4 holes

342
503

⌀2,8
4 holes
293
455
442
279

PRIME series wall (flush)-mounting plastic distribution enclosures IP41

Wall-mounting modular plastic distribution enclosure-4 PRIME

100
190

Back view

⌀25
4 holes
⌀16
4 holes

106
155

147
116

Wall-mounting modular plastic distribution enclosure 6 PRIME

100
190

Back view

⌀25
4 holes
⌀16
4holes

106
155

183
50
152

Wall-mounting modular plastic distribution enclosure 9 PRIME

Back view

∅32 4 holes
∅20 4 holes
∅25 4 holes
∅16 4 holes

100
190
237
206
106
155

Wall-mounting modular plastic distribution enclosure 12 PRIME

Back view

∅25 8 holes
∅16 8 holes
∅32 4 holes
∅20 4 holes

100
190
290
260
106
155

Wall-mounting modular plastic distribution enclosure 18 PRIME

Back view

∅32 8 holes
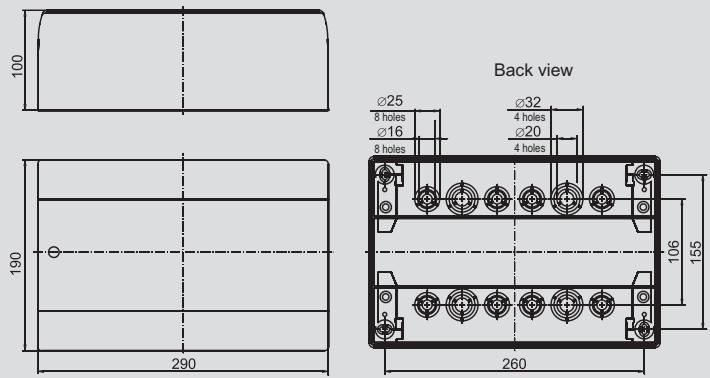∅32 8 holes
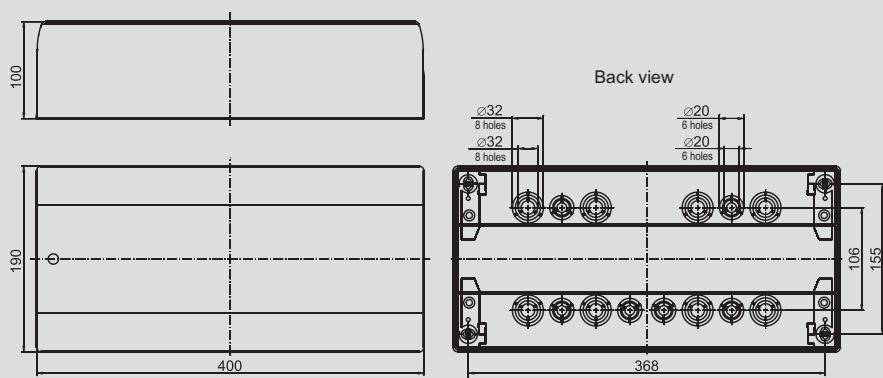∅20 6 holes
∅20 6 holes

100
190
400
368
106
155

Dimensions

59

Wall-mounting modular plastic distribution enclosure 24 PRIME

Back view

Ø32 4 holes
Ø25 6 holes
Ø20 4 holes
Ø16 6 holes

108
328
306
258
242
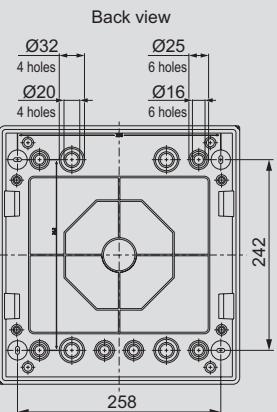
Wall-mounting modular plastic distribution enclosure 36 PRIME

Back view

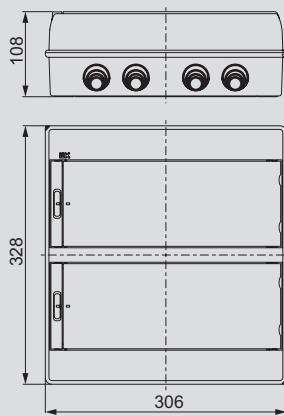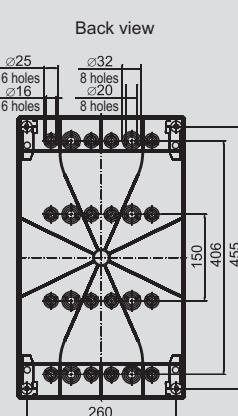⌀25 16 holes
⌀16 16 holes
⌀32 8 holes
⌀20 8 holes

100
490
290
260
150
406
455

Flush-mounting modular plastic distribution enclosure-4 PRIME

Back wiew

⌀25 4 holes
⌀16 4 holes

⌀25 4 holes

26
140
210
162
100
26
190
⌀20 4 holes
72
102
65
106

Flush-mounting modular plastic distribution enclosure-6 PRIME

⌀25 4 holes
⌀32 2 holes

Back view

⌀25 4 holes
⌀16 4 holes

26
177
210
198
100
26
190
⌀20 4 holes
72
102
65
106

Flush-mounting modular plastic distribution enclosure-9 PRIME

Back view

⌀25 4 holes
⌀32 4 holes

⌀25 4 holes
⌀16 4 holes
⌀32 4 holes
⌀20 4 holes

24
230
210
252
100
24
190
⌀20 4 holes
72
102
65
106

Flush-mounting modular plastic distribution
enclosure-12 PRIME

Back view

∅25
8 holes
∅25
8 holes

∅32
4 holes
∅20
4 holes

24
∅25
4 holes
∅32
6 holes
285

210
305

100
24
∅20
4 holes
65
72
102

106

Flush-mounting modular plastic distribution
enclosure-18 PRIME

Back view

∅32
8 holes
∅20
8 holes

∅25
6 holes
∅16
6 holes

24
∅25
12 holes
∅32
6 holes
393

210
415

100
24
190
∅20
4 holes
65
72
102

106

Flush-mounting modular plastic distribution
enclosure-24 PRIME

Back wiew

∅25
8 holes
∅16
8holes

∅32
4 holes
∅20
4 holes

24
∅25
4 holes
∅32
4 holes
285

360
305

100
24
∅20
4 holes
65
215
∅20
4 holes
72
102

340

256

Flush-mounting modular plastic distribution
enclosure-36 PRIME

Back view

∅25
16 holes
∅16
16 holes

∅32
8 holes
∅20
8 holes

24
∅25
4 holes
∅32
6 holes
285

510
305

100
24
∅20
4 holes
∅25
8 holes
72
102

490

150
406

Wall-mounting modular plastic distribution enclosures, IP55

Wall-mounting modular plastic distribution
enclosure-5

Wall-mounting modular plastic distribution
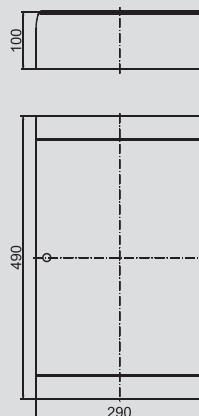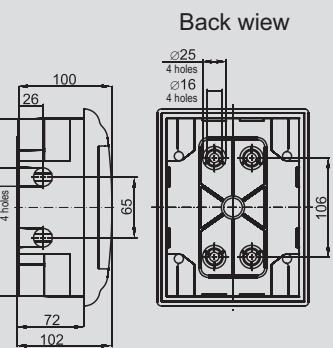enclosure-9
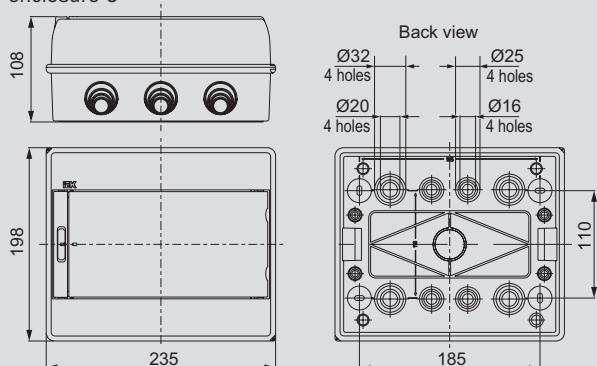
Wall-mounting modular plastic distribution
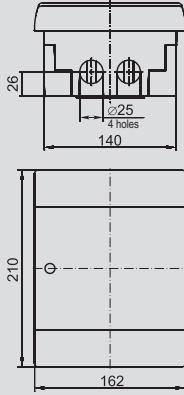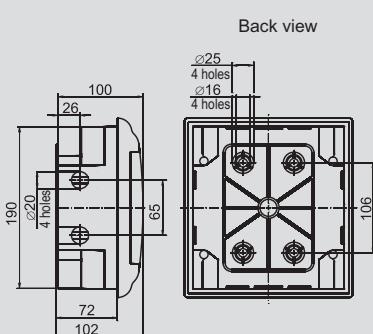enclosure-12
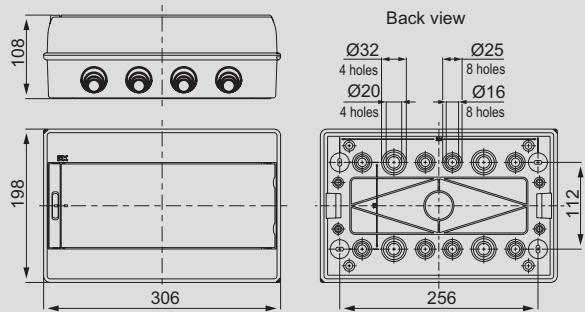
Wall-mounting modular plastic distribution
enclosure-18
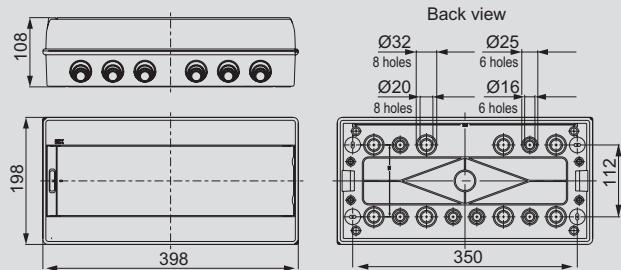
Wall-mounting modular plastic distribution
enclosure-24
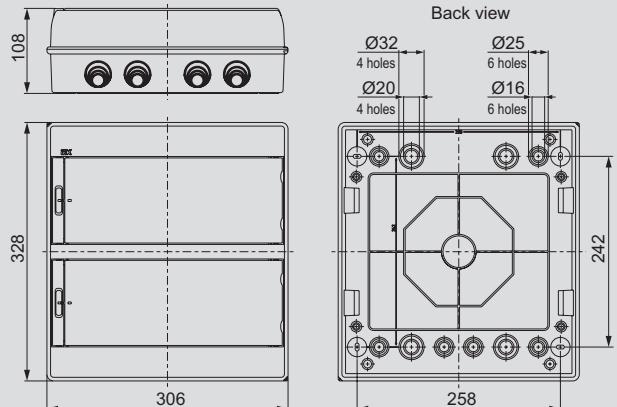
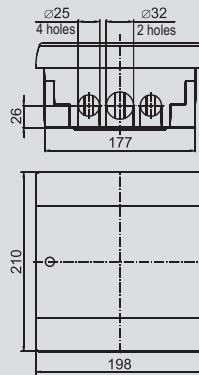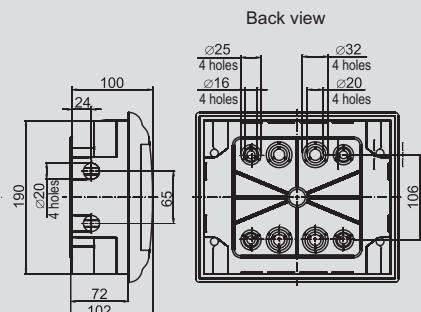Wall-mounting modular plastic distribution
enclosure-36
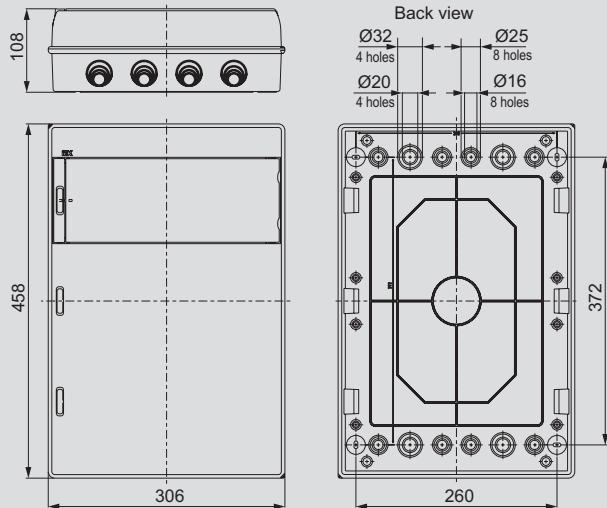
Wall-mounting modular plastic distribution enclosures a transparent cover 5/16, IP55

Wall-mounting modular plastic distribution enclosure-5/16
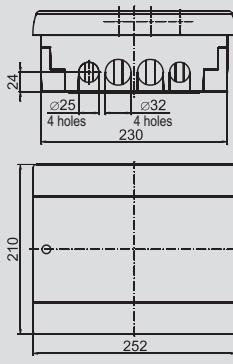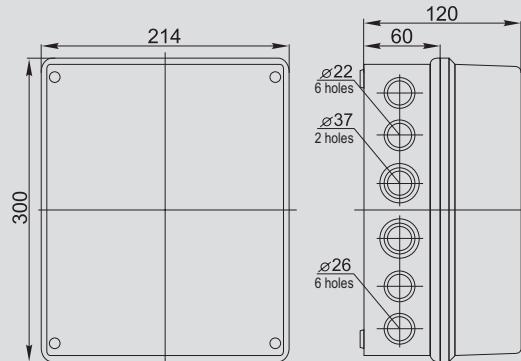

Wall-mounting modular plastic distribution enclosures, IP66

Wall-mounting modular plastic distribution enclosure-4
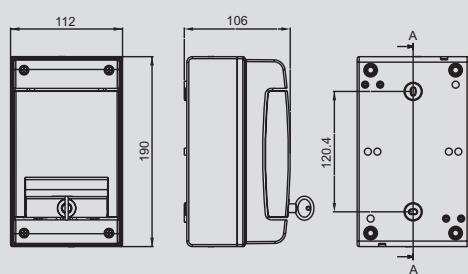
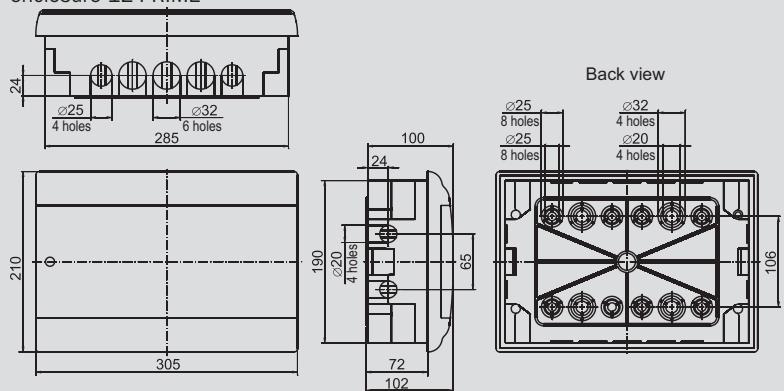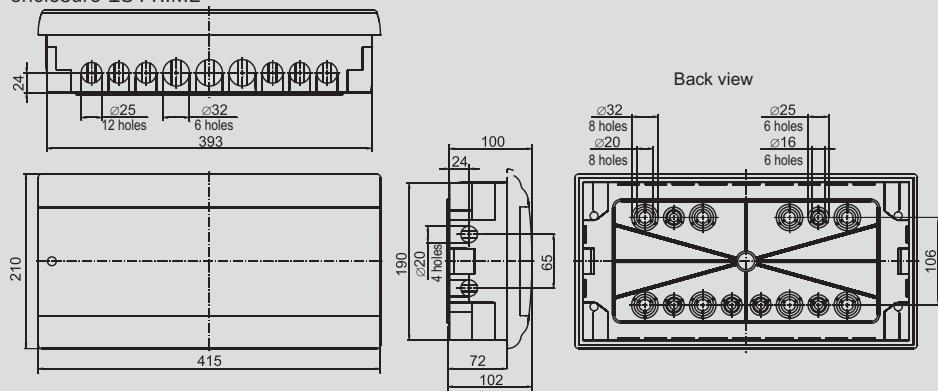Wall-mounting modular plastic distribution enclosure-8

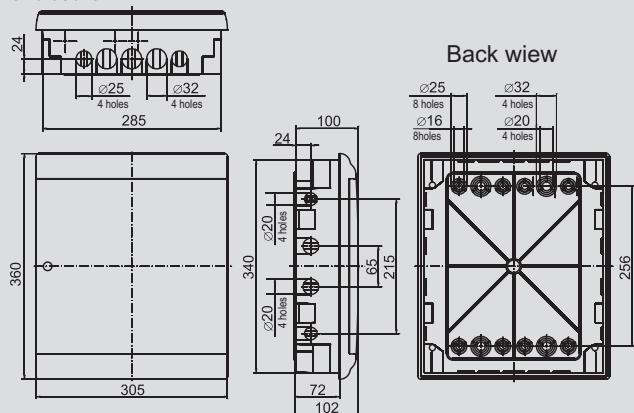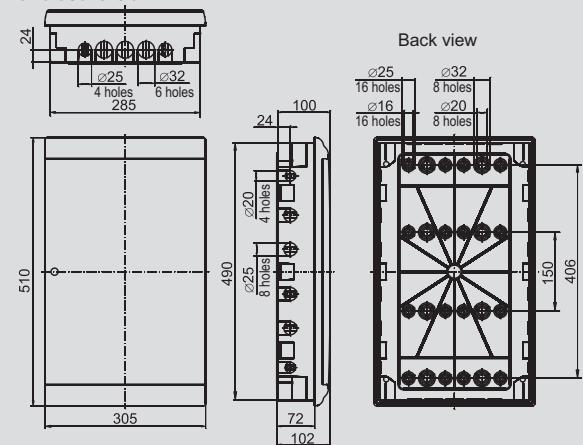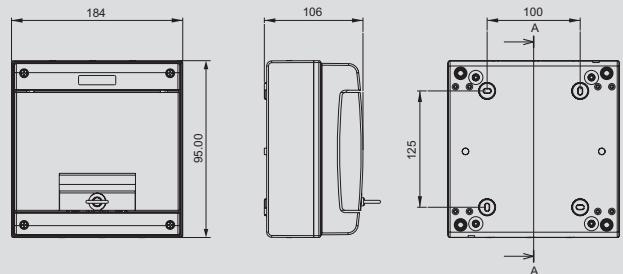Wall-mounting modular plastic distribution enclosure-12
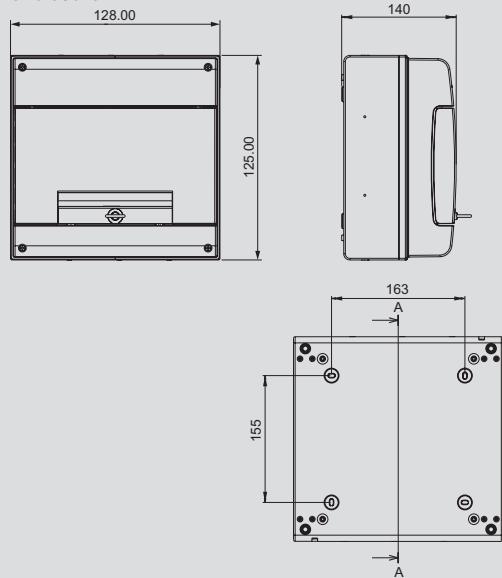
Wall-mounting modular plastic distribution enclosure-16

Wall-mounting modular plastic distribution enclosure-24
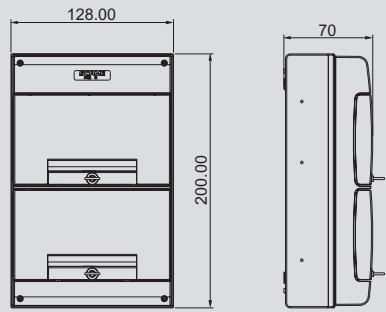
128.00

70

200.00

81.50
A

152.50

Wall-mounting modular plastic distribution enclosure-32

164

70

200

123.23
A

152.50

A

Wall-mounting modular plastic distribution enclosure-48

164.00

140

275.00

117.50
A

227.50

A
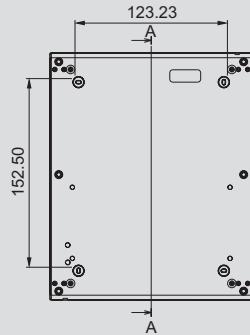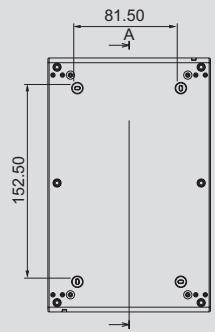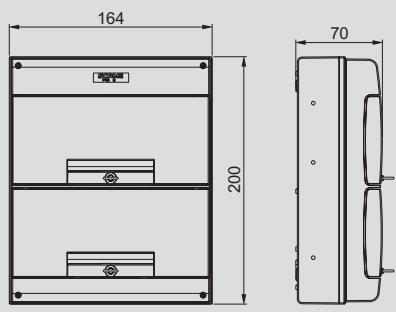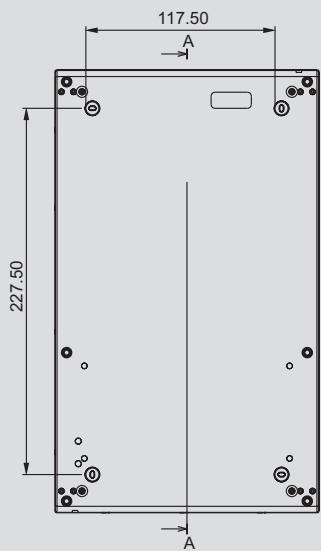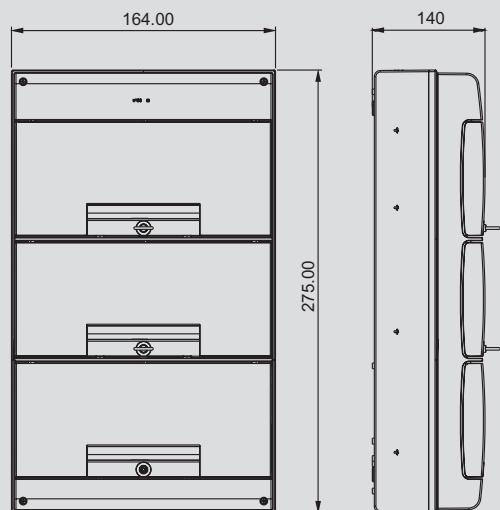
Plastic enclosures for meter installation
Wall-mounting plastic enclosure for metering and distribution, IP66 PC

Wall-mounting plastic enclosure for metering and distribution 1/3 IP66 PC,
wall-mounting plastic enclosure for metering and distribution 1/3 IP66 PC LIGHT
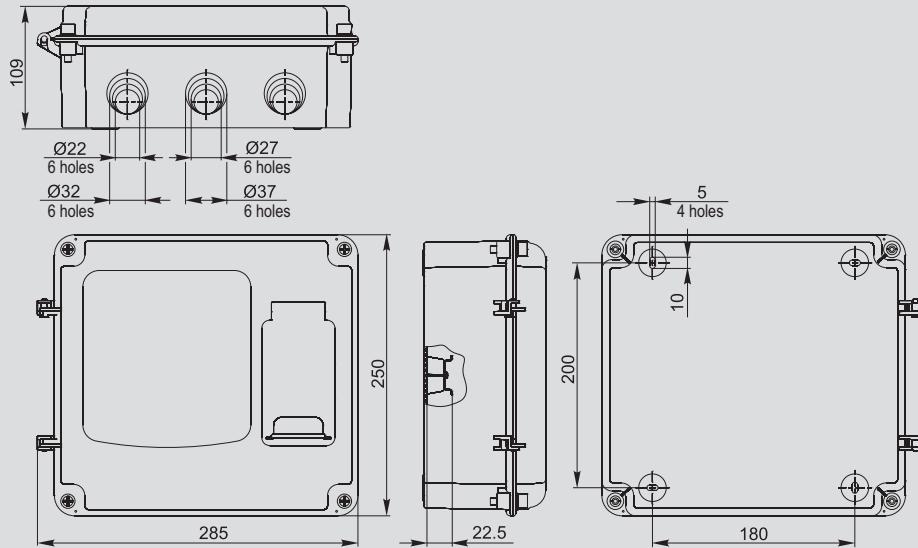
Wall-mounting plastic enclosure for metering and distribution 1/8 IP66 PC,
wall-mounting plastic enclosure for metering and distribution 1/8 IP66 PC LIGHT
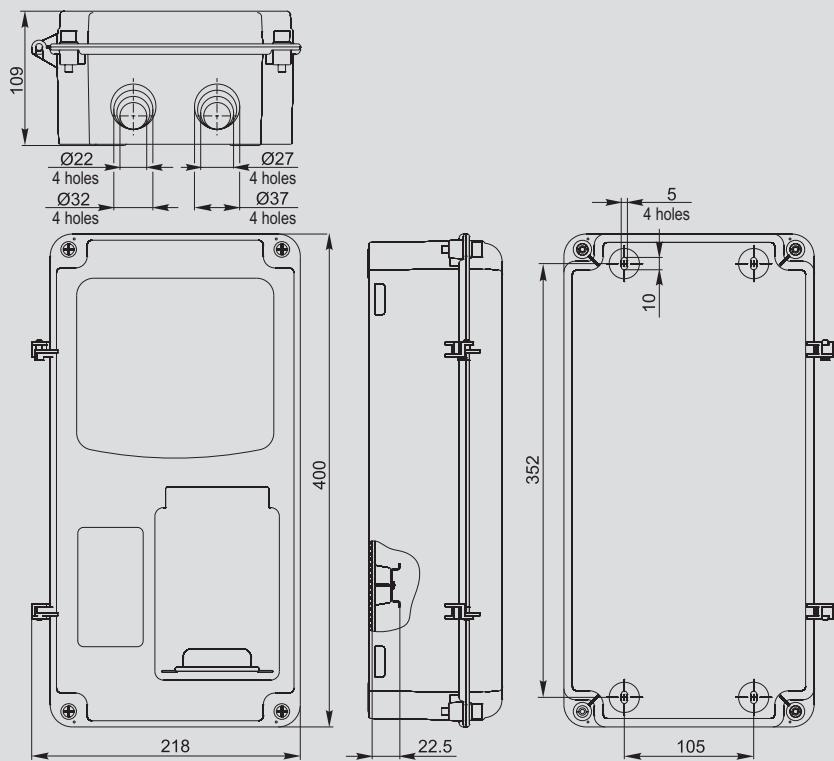
Wall-mounting plastic enclosure for metering and distribution 3/6 IP66 PC,
wall-mounting plastic enclosure for metering and distribution 3/6 IP66 PC LIGHT

122

Ø22
6 holes

Ø27
6 holes

Ø32
6 holes

Ø37
6 holes

5
4 holes

10

360

313

323

22.5

210
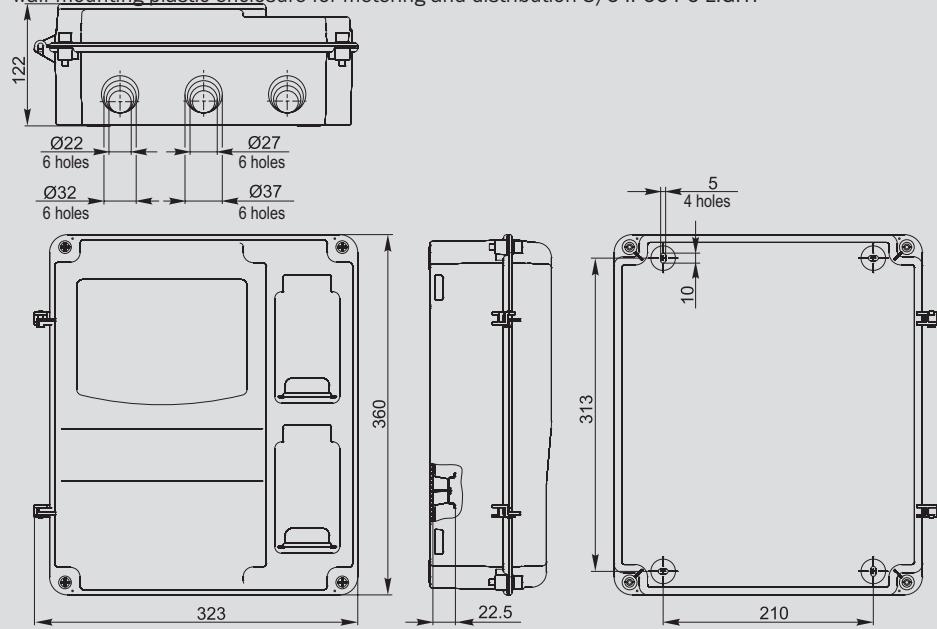
Wall-mounting plastic enclosure for metering and distribution 3/12 IP66 PC,
wall-mounting plastic enclosure for metering and distribution 3/12 IP66 PC LIGHT

122

Ø22
6 holes

Ø27
6 holes

Ø32
6 holes

Ø37
6 holes

22.5

5
4 holes

10

500

452

290

29.5

175
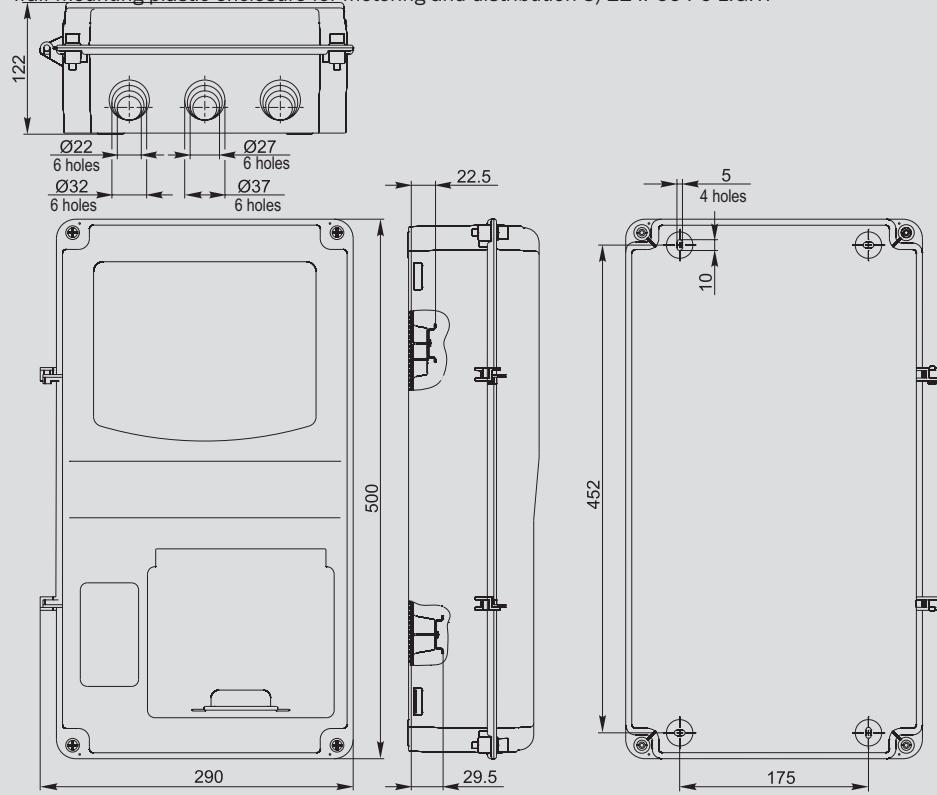
Plastic panels for meter installation

Plastic panel for meter installation 1/2-6
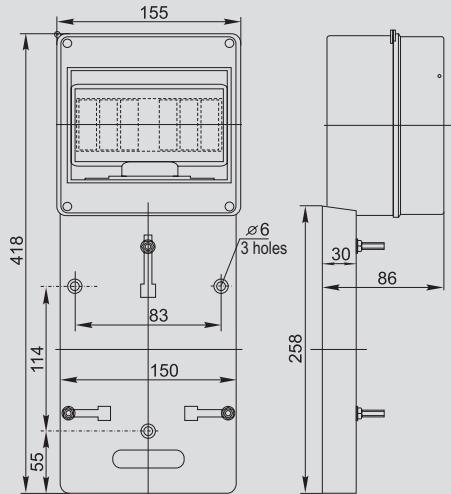
Plastic panel for meter installation 3/2-8
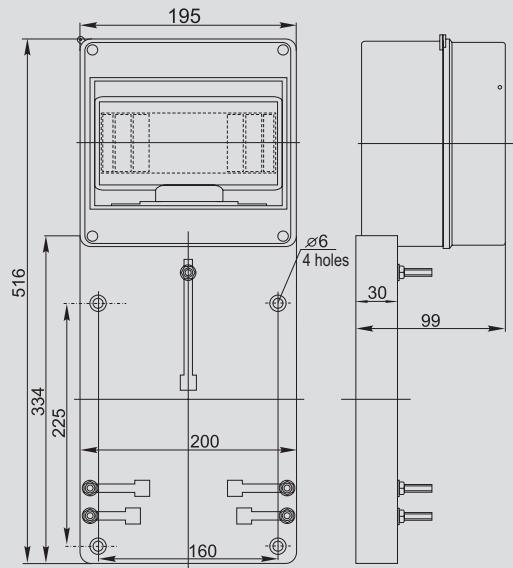
Plastic panel for meter installation 1/0
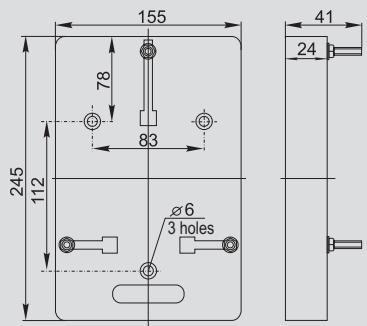
Plastic panel for meter installation 3/0
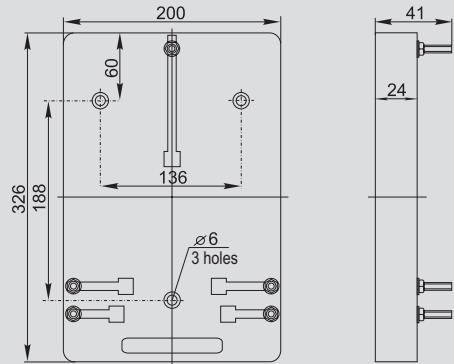
Plastic panel for meter installation 2/0
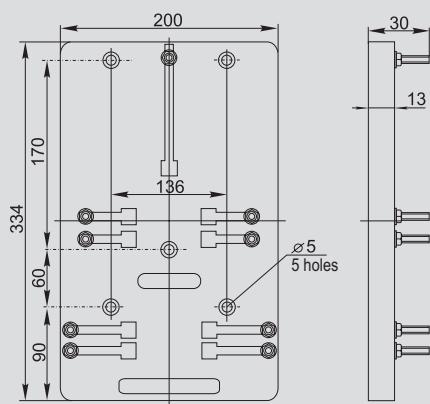
Polyester anti-vandal enclosures for metering IP54 and IP54

Polyester enclosure 1/1

430

270

160

Polyester enclosure 3/1

280

550

160
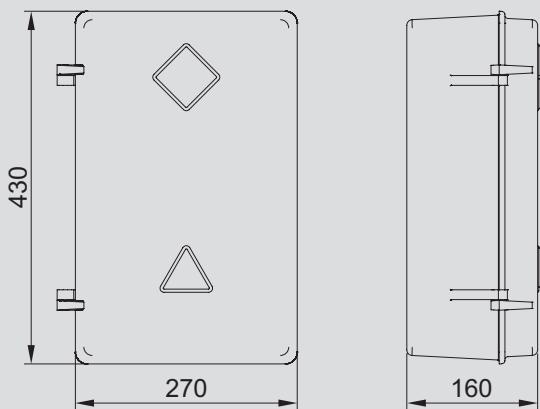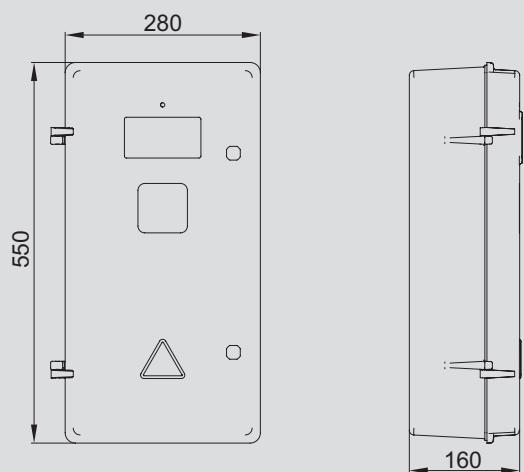
Plastic enclosure with mounting panel
280x220x116 mm

280

220

134
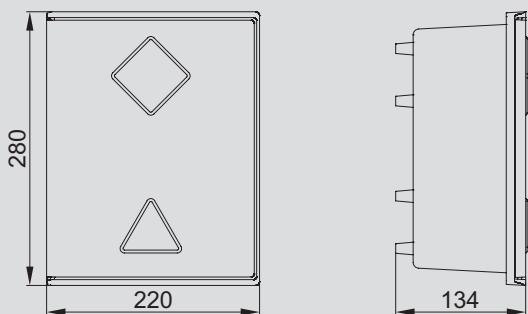
Plastic enclosure with mounting panel
440x400x205 mm

440

400

205
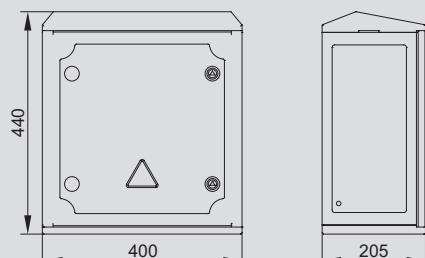
Plastic enclosure with mounting panel
640x400x205 mm
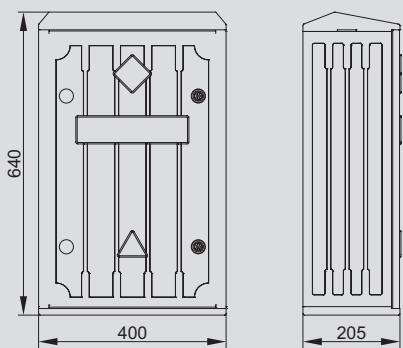
640

400

205

ABS plastic enclosure with mounting panel
IP 65

Plastic enclosure with mounting panel
300×200×130
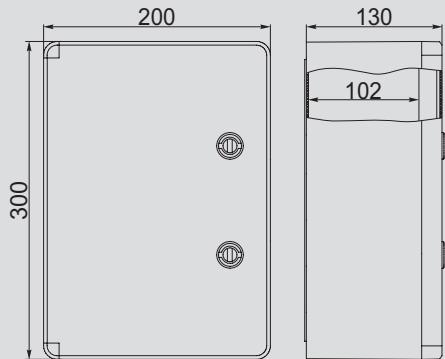
Plastic enclosure with mounting panel
350×250×150
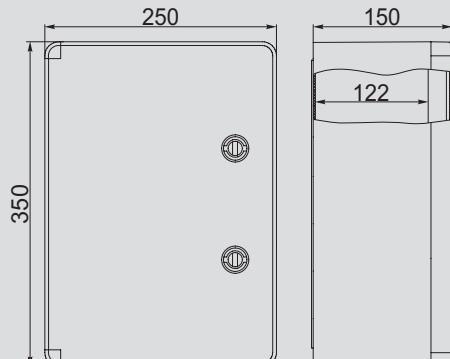
Plastic enclosure with mounting panel
400×300×170
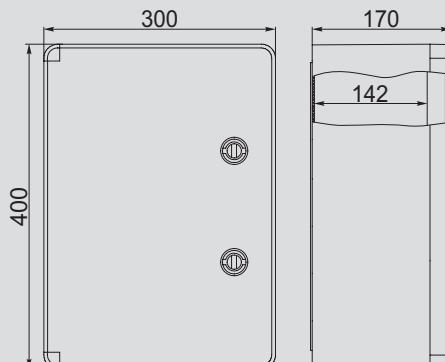
Plastic enclosure with mounting panel
400×300×220
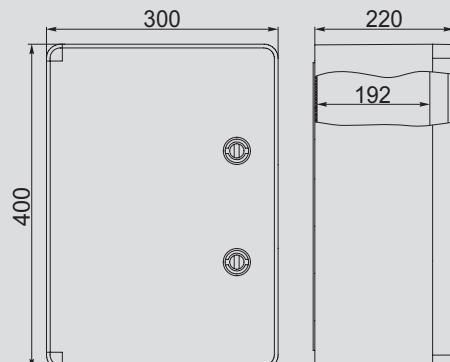
Plastic enclosure with mounting panel
500×350×190
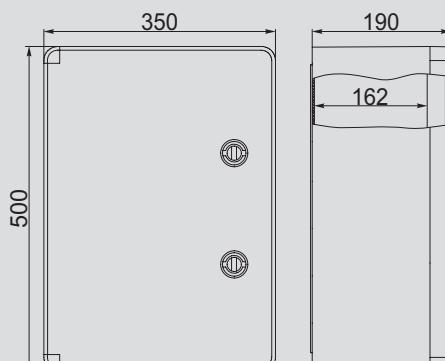
Plastic enclosure with mounting panel
500×400×180

Plastic enclosure with mounting panel
500×400×240

400 | 240
500
212

Plastic enclosure with mounting panel
600×400×200

400 | 200
600
172

Plastic enclosure with mounting panel
700×500×250

500 | 250
700
222

Plastic enclosure with mounting panel
800×600×260

600 | 260
800
232

Modular metal enclosures

IEK

UNIVERSAL series wall-mounting metal distribution enclosure and flush-mounting metal distribution enclosure

Designed for the assembly of distribution boards using modular equipment, for the input and distribution of electricity, as well as for the protection of 230/400 V networks from overload and short-circuit currents.

Advantages

- Convenience and ease of assembly due to the removable mounting frame.
- Full set.
- Buses can be installed top and bottom.
- Multifunctional cable entry.
- Increased distance between the rear panel and the DIN rails for easy wiring.
- The possibility of sealing the blanking plate.
- Rigid structure.
- Unified model range.
- High level of electrical safety.
- Stylish ergonomic design.
- Certificate of conformity.
- Protective operating panel, supports and N and PE buses.

Specifications

Installation type	wall-mounted, flush-mounted
Metal thickness	0.8-1 mm
Rated current	up to 125 A
Cover type	powder shagreen, shagreen
Color	RAL 7035 (gray)
Degree of protection	mounted – IP54, built-in – IP31
Climatic modification	N2 – for IP54, N3 – for IP31
Apparatus type	modular
Cable entry	top and bottom – in flush-mounting enclosures, from below – in wall-mounting
Impact resistance	IK10 (20 J)

Design features
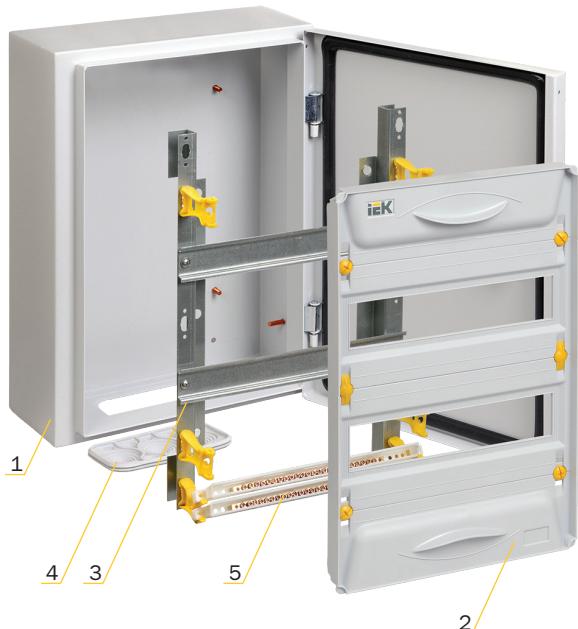
1 – Shell
2 – Operation panel and plastic elements
3 – Mounting frame
4 – Cable gland
5 – N and PE buses and bus support
6 – Protective cover
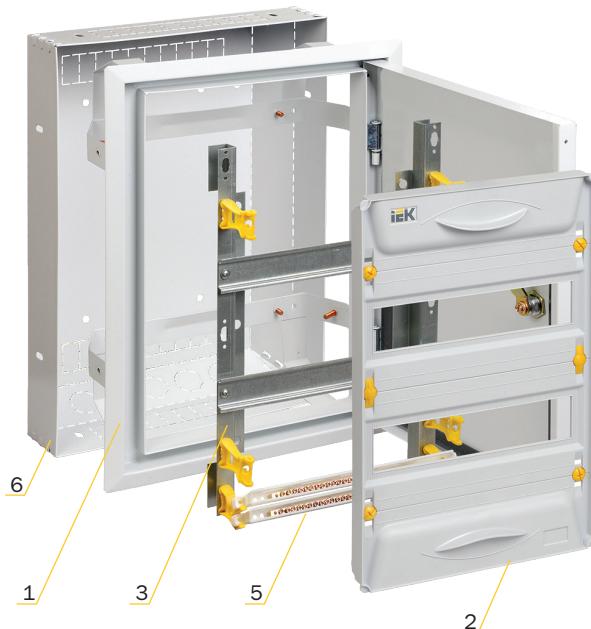
A protective operational panel eliminates electric shock during the operation of the finished product.

N and PE buses are installed in calipers to ensure safe operation.
This arrangement of the buses makes cable entry more convenient.

In the IP54 version, the seal is provided with expanded polyurethane.

In flush-mounting enclosures it is possible to install a protective perforated casing, which greatly simplifies the installation of the housing in a niche.

The removable mounting frame provides convenience and ease of assembly, the ability to mount outside the enclosure. DIN rails are installed with a pitch of 125 mm. For the convenience of cable routing, the distance between the rear wall and DIN rails has been increased.

There are grounding studs in all wall(flush)-mounting metal distribution enclosures of the UNIVERSAL series.

Component parts

Mounting
frame

Operation panel
and plastic
elements

Cable gland (for
wall-mounting metal
distribution enclosure)

Supports
with N and PE buses

Plug
YIS50-12-K03
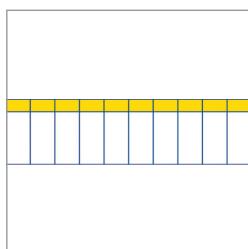
Marking
table
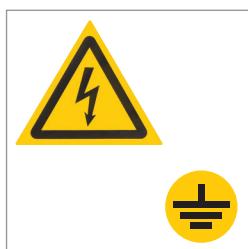
Electrical safety signs

Kit for enclosure
grounding and hinge
(for wall-mounting
metal distribution
enclosure)

Color
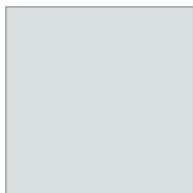
RAL 7035

Explanation of designations

**Wall-mounting metal distribution enclosure-24z-1 IP54
UNIVERSAL**

24 – number of installed modules:
24, 36, 48, 2×24, 2×36, 2×48

z – Lock included

1 – modification number

IP54 – degree of protection

UNIVERSAL – series name

**Flush-mounting metal distribution enclosure-24zk-1 36 IP31
UNIVERSAL**

24 – number of installed modules:
24, 36, 48, 2×24, 2×36, 2×48

z – Lock included

k – Protective casing

1 – modification number

36 – type, color, structure of the coating surface:

36 – EPR/shagreen leather, RAL 7035 (light gray)

IP31 – degree of protection

UNIVERSAL – series name

Assortment

Flush-mounting metal distribution enclosure	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Flush-mounting metal distribution enclosure-24z-1 36 IP31 UNIVERSAL	24	Enclosure: 480×352×138. Niche: 455×330×135	Hole arrangement: top, bottom, back. Weight: 4.18 kg. N/PE buses: 6×9 mm 24/2 — 2 pcs.	RAL 7035	MKM12-V-24-31-Z-U
	Flush-mounting metal distribution enclosure-36z-1 36 IP31 UNIVERSAL	36	Enclosure: 605×352×138. Niche: 580×330×135	Hole arrangement: top, bottom, back. Weight: 4.92 kg. N/PE buses: 6×9 mm 24/2 — 2 pcs.	RAL 7035	MKM12-V-36-31-Z-U
	Flush-mounting metal distribution enclosure-48z-1 36 IP31 UNIVERSAL	48	Enclosure: 730×352×138. Niche: 705×330×135	Hole arrangement: top, bottom, back. Weight: 5.86 kg. N/PE buses: 8×12 mm 24/2 — 2 pcs.	RAL 7035	MKM12-V-48-31-Z-U
	Flush-mounting metal distribution enclosure-2 24z-1 36 IP31 UNIVERSAL	48	Enclosure: 480×662×138. Niche: 455×640×135	Hole arrangement: top, bottom, back. Weight: 7.83 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM12-V-2x24-31-Z-U
	Flush-mounting metal distribution enclosure-2—36z-1 36 IP31 UNIVERSAL	72	Enclosure: 605×662×138. Niche: 580×640×135	Hole arrangement: top, bottom, back. Weight: 9.22 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM12-V-2x36-31-Z-U
	Flush-mounting metal distribution enclosure-2—48z-1 36 IP31 UNIVERSAL	96	Enclosure: 730×662×138. Niche: 705×640×135	Hole arrangement: top, bottom, back. Weight: 11.04 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM12-V-2x48-31-Z-U

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Flush-mounting metal distribution enclosure-24zk-1 36 IP31 UNIVERSAL	24	Enclosure: 480×352×138. Niche: 455×330×135	Hole arrangement: top, bottom, back. Weight: 5.42 kg. N/PE buses: 6×9 mm 24/2 – 2 pcs.	RAL 7035	MKM12-V-24-31-ZK-U
	Flush-mounting metal distribution enclosure-36zk-1 36 IP31 UNIVERSAL	36	Enclosure: 605×352×138. Niche: 580×330×135	Hole arrangement: top, bottom, back. Weight: 6.45 kg. N/PE buses: 6×9 mm 24/2 – 2 pcs.	RAL 7035	MKM12-V-36-31-ZK-U
	Flush-mounting metal distribution enclosure-48zk-1 36 IP31 UNIVERSAL	48	Enclosure: 730×352×138. Niche: 705×330×135	Hole arrangement: top, bottom, back. Weight: 7.66 kg. N/PE buses: 8×12 mm 24/2 – 2 pcs.	RAL 7035	MKM12-V-48-31-ZK-U
	Flush-mounting metal distribution enclosure-2×24zk-1 36 IP31 UNIVERSAL	48	Enclosure: 480×662×138. Niche: 455×640×135	Hole arrangement: top, bottom, back. Weight: 9.92 kg. N/PE buses: 8×12 mm 24/2 – 4 pcs.	RAL 7035	MKM12-V-2x24-31-ZK-U
	Flush-mounting metal distribution enclosure-2×36zk-1 36 IP31 UNIVERSAL	72	Enclosure: 605×662×138. Niche: 580×640×135	Hole arrangement: top, bottom, back. Weight: 11.74 kg. N/PE buses: 8×12 mm 24/2 – 4 pcs.	RAL 7035	MKM12-V-2x36-31-ZK-U
	Flush-mounting metal distribution enclosure-2×48zk-1 36 IP31 UNIVERSAL	96	Enclosure: 730×662×138. Niche: 705×640×135	Hole arrangement: top, bottom, back. Weight: 14.01 kg. N/PE buses: 8×12 mm 24/2 – 4 pcs.	RAL 7035	MKM12-V-2x48-31-ZK-U

* Customized items

Wall-mounting metal distribution enclosures

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal distribution enclosure-12z-1 IP54 UNIVERSAL	12	315×310×136	Hole arrangement: bottom 70×140. Weight: 4.5 kg. N/PE buses: 6×9 mm 12/2 — 2 pcs.	RAL 7035	MKM11-N-12-54-Z-U
	Wall-mounting metal distribution enclosure-24z-1 IP54 UNIVERSAL	24	440×310×136	Hole arrangement: bottom 70×140. Weight: 5.02 kg. N/PE buses: 6×9 mm 24/2 — 2 pcs.	RAL 7035	MKM11-N-24-54-Z-U
	Wall-mounting metal distribution enclosure-36z-1 IP54 UNIVERSAL	36	565×310×136	Hole arrangement: bottom 70×140. Weight: 6.11 kg. N/PE buses: 6×9 mm 24/2 — 2 pcs.	RAL 7035	MKM11-N-36-54-Z-U
	Wall-mounting metal distribution enclosure-48z-1 IP54 UNIVERSAL	48	690×310×136	Hole arrangement: bottom 70×140. Weight: 7.22 kg. N/PE buses: 8×12 mm 24/2 — 2 pcs.	RAL 7035	MKM11-N-48-54-Z-U
	Wall-mounting metal distribution enclosure-2×24z-1 IP54 UNIVERSAL	48	440×620×136	Hole arrangement: bottom 70×140. Weight: 9.43 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM11-N-2x24-54-Z-U
	Wall-mounting metal distribution enclosure-2×36z-1 IP54 UNIVERSAL	72	565×620×136	Hole arrangement: bottom 70×140. Weight: 11.41 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM11-N-2x36-54-Z-U
	Wall-mounting metal distribution enclosure-2×48z-1 IP54 UNIVERSAL	96	690×620×136	Hole arrangement: bottom 70×140. Weight: 13.46 kg. N/PE buses: 8×12 mm 24/2 — 4 pcs.	RAL 7035	MKM11-N-2x48-54-Z-U

Modular metal enclosures

TITAN

Wall-mounting metal distribution enclosure TITAN Pro

Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
Wall-mounting metal distribution enclosure-120 IP54 TITAN Pro	120	815×620×140	Hole arrangement: bottom 70x140. Weight: 14.5 kg. N/PE buses: 8x12 mm 24/2— 8 pcs.	RAL 7035	MKM11-N-120-54-Z-U
Wall-mounting metal distribution enclosure-144 IP54 TITAN Pro	144	940×620×140	Hole arrangement: bottom 70x140. Weight: 16.2 kg. N/PE buses: 8x12 mm 24/2— 8 pcs.	RAL 7035	MKM11-N-144-54-Z-U
Wall-mounting metal distribution enclosure-180 IP54 TITAN Pro	180	815×880×140	Hole arrangement: bottom 70x140. Weight: 19.4 kg. N/PE buses: 8x12 mm 24/2 – 12 pcs.	RAL 7035	MKM11-N-180-54-Z-U
Wall-mounting metal distribution enclosure-216 IP54 TITAN Pro	216	940×880×140	Hole arrangement: bottom 70x140. Weight: 21.7 kg. N/PE buses: 8x12 mm 24/2 – 12 pcs.	RAL 7035	MKM11-N-216-54-Z-U

PRO series wall(flush)-mounting metal distribution enclosures

Designed for the assembly of distribution boards using modular equipment, for the input and distribution of electricity, as well as for the protection of 230/400 V networks from overload and short-circuit currents.

Advantages

- Convenience and ease of assembly due to the removable mounting frame.
- High level of electrical safety due to the protective operating panel and bus supports.
- Buses can be installed top and bottom.
- Increased distance between the rear panel and DIN rails for easy wiring.
- Rigid and lightweight construction.
- Unified model range.
- Stylish design.
- Reversible doors in PRO wall-mounting metal distribution enclosures IP31.
- Certificate of conformity.

Specifications

Installation type	wall-mounted, flush-mounted
Metal thickness	0.8-1.0 mm
Rated current	up to 125 A
Cover type	powder, shagreen (matt)
Color	RAL 7035 (gray)
Degree of protection	wall-mounting- IP31, IP54,flush-mounting – IP31
Door opening angle	105°
Apparatus type	modular
Climatic modification	NF3 for IP31, N2 for IP54
Input of conductors	Flush-mounting metal distribution enclosure (PRO series) – top and bottom; wall-mounting metal distribution enclosure (PRO series) – bottom

Design features
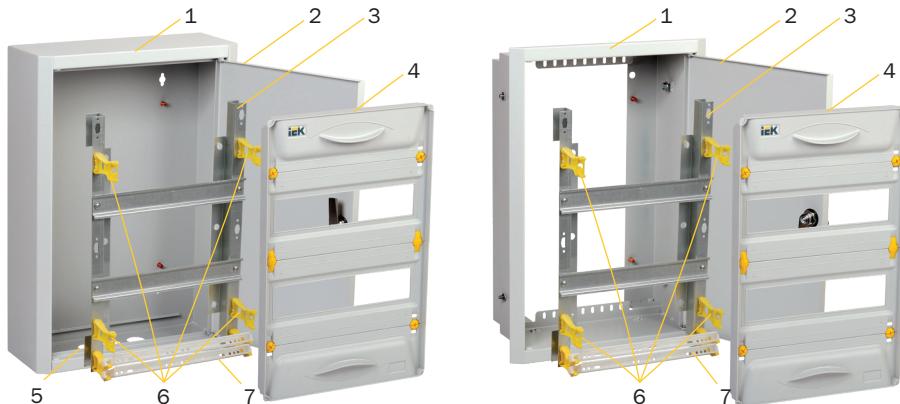
1 – shell,
2 – door,
3 – mounting frame,
4 – operational panel,
5 – holes for input of
   cables and wires,
6 – plastic stands for
   fastening the operational
   panel,
7 – support for N/PE buses.

The removable mounting frame provides convenience and ease of assembly, the ability to mount outside the enclosure. DIN rails are installed with a pitch of 125 mm. For the convenience of cable routing, the distance between the rear wall and DIN rails has been increased.

Perforation on the back plate of the PRO series flush-mounting metal distribution enclosures allows you to fix the wires with clamps.

A protective operational panel eliminates electric shock during the operation. Possibility of sealing.
A grey plug for 12 modules UNIVERSAL/PRO (YIS50-12-K03) must be ordered separately.

The beveled angles of the PRO series wall-mounting metal distribution enclosures are in line with the market trends.

The support ensures safe operation. Installation from above and from below is possible. Buses must be ordered separately:
– YNN11-12-100 PEN bus 6×9 mm 12/2;
– YNN11-24-100 PEN bus 6×9 mm 24/2;
– YNN21-24-100 PEN bus 8×12mm 24/2.

The screws on the side walls of the PRO series flush-mounting metal distribution enclosure allow fixing the enclosures in a niche.

In the PRO flush-mounting metal distribution enclosure, it is possible to install the enclosure after laying the cables and wires: convenient and easy installation in a niche.

All PRO series wall(flush)-mounting metal distribution enclosure have grounding studs.

Component parts

Removable mounting frame, protective operating panel and plastic parts

Support for buses
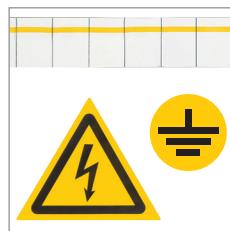
Marking table, electrical safety signs

Mounting kit for wall-mounting metal distribution enclosure IP54 PRO

Glands (for IP54 enclosures)

Explanation of designations

Wall-mounting metal distribution enclosure-12z-1 N2 IP54 PRO

12—2×48 –	maximum number of modules
z –	with a lock
1 –	modification number
N2 –	climatic modification
IP54 –	degree of protection
PRO –	series name

Flush-mounting metal distribution enclosure-12z-0 36 NF3 IP31 PRO

12—2×48 –	maximum number of modules
z –	with a lock
0 –	modification number
3 –	type of coating / shagreen (matt)
6 –	paint color RAL 7035
NF3 –	climatic modification
IP31 –	degree of protection
PRO –	series name

Assortment

Flush-mounting metal distribution enclosures (IP31)	Name	Number of modules	Overall dimensions (H×W×D), mm	Weight, kg	Article
	Flush-mounting metal distribution enclosure-12z-0 36 NF3 IP31 PRO	12	Enclosure: 310×335×130. Niche: 300×275×120	2.5	MKM15-V-12-31-ZU
	Flush-mounting metal distribution enclosure-12mz-0 36 NF3 IP31 PRO	12	Enclosure: 265×310×120. Niche: 237×282×114	1.9	MKM15-V-12m-31-ZU
	Flush-mounting metal distribution enclosure-18z-0 36 NF3 IP31 PRO	18	Enclosure: 265×420×120. Niche: 237×392×114	2.6	MKM15-V-18-31-ZU
	Flush-mounting metal distribution enclosure-24z-0 36 NF3 IP31 PRO	24	Enclosure: 460×310×130. Niche: 425×275×120	3.2	MKM15-V-24-31-ZU
	Flush-mounting metal distribution enclosure-36z-0 36 NF3 IP31 PRO	36	Enclosure: 585×310×130. Niche: 550×275×120	4.1	MKM15-V-36-31-ZU

Modular metal enclosures

TITAN

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Article
	Flush-mounting metal distribution enclosure-48z-0 36 NF3 IP31 PRO	48	Enclosure: 710×310×130. Niche: 675×275×120	Weight: 4.9 kg	MKM15-V-48-31-ZU
	Flush-mounting metal distribution enclosure-2x24z-0 36 NF3 IP31 PRO	48	Enclosure: 460×600×130. Niche: 425×565×120	Weight: 6.1 kg	MKM15-V-2x24-31-ZU
	Flush-mounting metal distribution enclosure-2x36z-0 36 NF3 IP31 PRO	72	Enclosure: 585×600×130. Niche: 550×565×120	Weight: 7.6 kg	MKM15-V-2x36-31-ZU
	Flush-mounting metal distribution enclosure-2x48z-0 36 NF3 IP31 PRO	96	Enclosure: 710×600×130. Niche: 675×565×120	Weight: 9.1 kg	MKM15-V-2x48-31-ZU

Wall-mounting metal distribution enclosures (IP31)

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Article
	Wall-mounting metal distribution enclosure-12z-0 36 NF3 IP31 PRO	12	Enclosure: 335×310×130	Number of inputs: 3 holes ⌀31(bottom). Weight: 3.2 kg	MKM15-N-12-31-ZU
	Flush-mounting metal distribution enclosure-12mz-0 36 NF3IP31 PRO	12	Enclosure: 265×310×120	Number of inputs: 3 holes ⌀31(bottom). Weight: 2.5kg	MKM15-N-12m-31-ZU
	Wall-mounting metal distribution enclosure-18z-0 36 NF3 IP31 PRO	18	Enclosure: 265×420×120	Number of inputs: 3 holes ⌀31(bottom). Weight: 3.5 kg	MKM15-N-18-31-ZU

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Article
	Wall-mounting metal distribution enclosure-24z-0 36 NF3 IP31 PRO	24	Enclosure: 460×310×130	Number of inputs: 3 holes ⌀31(bottom). Weight: 4.2 kg	MKM15-N-24-31-ZU
	Wall-mounting metal distribution enclosure-36z-0 36 NF3 IP31 PRO	36	Enclosure: 585×310×130	Number of inputs: 3 holes ⌀31(bottom). Weight: 5.2 kg	MKM15-N-36-31-ZU
	Wall-mounting metal distribution enclosure-48z-0 36 NF3 IP31 PRO	48	Enclosure: 710×310×130	Number of inputs: 3 holes ⌀31(bottom). Weight: 6.2 kg	MKM15-N-48-31-ZU
	Wall-mounting metal distribution enclosure-2x24z-0 36 NF3 IP31 PRO	48	Enclosure: 460×600×130	Number of inputs: 6 holes ⌀31 (bottom). Weight: 7.5KG	MKM15-N-2x24-31-ZU
	Wall-mounting metal distribution enclosure-2x36z-0 36 NF3 IP31 PRO	72	Enclosure: 585×600×130	Number of inputs: 6 holes ⌀31 (bottom). Weight: 9.3 kg	MKM15-N-2x36-31-ZU
	Wall-mounting metal distribution enclosure-2x48z-0 36 NF3 IP31 PRO	96	Enclosure: 710×600×130	Number of inputs: 6 holes ⌀31 (bottom). Weight: 11.1 kg	MKM15-N-2x48-31-ZU
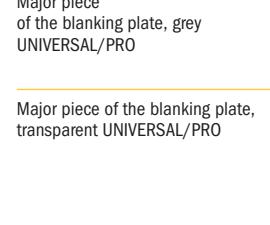
Wall-mounting metal distribution enclosures (IP54)

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Article
	Wall-mounting metal distribution enclosure-12z-1 N2 IP54 PRO	12	Enclosure: 329×310×135	Number of inputs: 5holes ⌀20(bottom). Weight: 4,3 kg	MKM16-N-12-54-ZU

Modular metal enclosures

TITAN

Modular metal enclosures

TITAN

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Article
	Wall-mounting metal distribution enclosure-12mz-1 N2 IP54 PRO	12	Enclosure: 260×310×128	Number of inputs: 5holes ⌀20(bottom). Weight: 3.2 kg	MKM16-N-12m-54-ZU
	Wall-mounting metal distribution enclosure-18z-1 N2 IP54 PRO	18	Enclosure: 260×420×128	Number of inputs: 5holes ⌀20(bottom). Weight: 4.2 kg	MKM16-N-18-54-ZU
	Wall-mounting metal distribution enclosure-24z-1 N2 IP54 PRO	24	Enclosure: 454×310×135	Number of inputs: 5holes ⌀20(bottom). Weight: 5.7 kg	MKM16-N-24-54-ZU
	Wall-mounting metal distribution enclosure-36z-1 N2 IP54 PRO	36	Enclosure: 579×310×135	Number of inputs: 5holes ⌀20(bottom). Weight: 7 kg	MKM16-N-36-54-ZU
	Wall-mounting metal distribution enclosure-48z-1 N2 IP54 PRO	48	Enclosure: 704×310×135	Number of inputs: 5holes ⌀20(bottom). Weight: 8.3 kg	MKM16-N-48-54-ZU
	Wall-mounting metal distribution enclosure-2x24z-1 N2 IP54 PRO	48	Enclosure: 454×620×135	Number of inputs: 10holes ⌀20(bottom). Weight: 10 Kg	MKM16-N-2x24-54-ZU
	Wall-mounting metal distribution enclosure-2x36z-1 N2 IP54 PRO	72	Enclosure: 579×620×135	Number of inputs: 10holes ⌀20(bottom). Weight: 12.3 kg	MKM16-N-2x36-54-ZU
	Wall-mounting metal distribution enclosure-2x48z-1 N2 IP54 PRO	96	Enclosure: 704×620×135	Number of inputs: 10holes ⌀20(bottom). Weight: 14.5 kg	MKM16-N-2x48-54-ZU

Accessories for UNIVERSAL and PRO series enclosures

	Name	Application	Article
	Plug for 12 modules, grey UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-12-K03
	Support for enclosures UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-SUFP-K03
	End piece of the blanking plate, grey UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-TFP-K03
	End piece of the blanking plate, transparent UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-TFP-K08
	Connector of the blanking plate, yellow UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-SSFP-K05
	Rack of the blanking plate yellow UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-SFP-K05
	Major piece of the blanking plate, grey UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-OFP-K03
	Major piece of the blanking plate, transparent UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-OFP-K08
	Locking screw of the blanking plate yellow UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-FVFP-K05
	Rack insulator UNIVERSAL/PRO	Wall(flush)-mounting metal distribution enclosures PRO; Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS51-K05
	Rack insulator UNIVERSAL IEK-1*	Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-K05
	Gland input grey UNIVERSAL	Wall(flush)-mounting metal distribution enclosures UNIVERSAL	YIS50-VS-K03

* Installed before October 2016

TITAN
Wall-mounting metal distribution enclosures

Designed for the assembly of distribution boards using modular equipment,
for the input and distribution of electricity, as well as for the protection of 230/400 V networks
from overload and short-circuit currents.

Advantages

- Increased corrosion resistance.
- High quality coating.
- One safety lock.
- A set of additional accessories.
- High manufacturability and ease of assembly.
- Several colors and paint options.
- High level of electrical safety.
- Quality certificate.

Specifications

Installation type	wall-mounted
Metal thickness, mm	0,8–1,0
Rated current, A	up to 100
Cover type	powder, shagreen / gloss
Color	RAL 7035 (gray), RAL 9016 (white)
Degree of protection	IP31, IP54
Door opening angle	105°
Apparatus type	modular
Climatic modification	NF3 for IP31, N2 for IP54

Design features

Mounting rail for attaching N and PE busbars (busbars sold separately).

In the IP54 version, the multi-faceted protective channel of the enclosure prevents the ingress of dirt and water when the door is opened.

Protective operational panel excluding electric shock during the operation of the finished product.

The IP54 version has a polyurethane foam seal.

Component parts
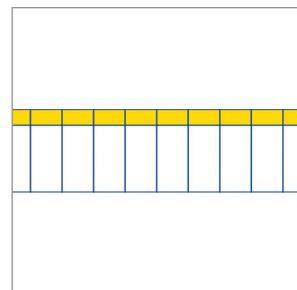
Electrical safety signs

Marking table

Glands (for IP54 enclosures)

Color
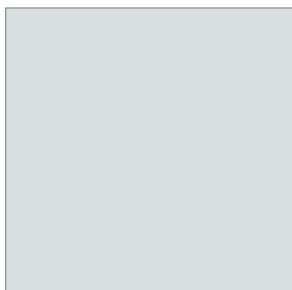
RAL 7035
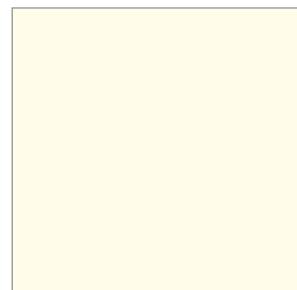
RAL 9016

Explanation of designations

Wall-mounting metal distribution enclosure-9z-1 3 6 NF3 IP31

9—72 – maximum number of modules
z – with a lock
0 – modification number
    0 – with angles for mounting N and PE busbars
    1 – galvanized rail for fastening N and PE busbars
3 – type of coating
    3 – EPR / shagreen
    5 – EPR / gloss
    7 – PPK / shagreen
6 – paint color
    6 – RAL 7035 ▢
    8 – RAL 9016 ▢
NF3 – climatic modification
IP31 – degree of protection

Assortment

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
Wall-mounting metal distribution enclosures (IP31)	Wall-mounting metal distribution enclosure-12z-1 36 NF3 IP31	12	Enclosure: 265×310×120	Number of inputs: 3 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-12-31-Z
	Wall-mounting metal distribution enclosure-12z-1 38 NF3 IP31	12		Weight 3.1 kg	RAL 9016	MKM13-N-12-31-Z
	Wall-mounting metal distribution enclosure-18z-1 36 NF3 IP31	18	Enclosure: 265×440×120	Number of inputs: 3 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-18-31-Z
	Wall-mounting metal distribution enclosure-18z-1 38 NF3 IP31	18		Weight 4.1 kg	RAL 9016	MKM13-N-18-31-Z
	Wall-mounting metal distribution enclosure-24z-1 36 NF3 IP31	24	Enclosure: 395×310×120	Number of inputs: 3 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-24-31-Z
	Wall-mounting metal distribution enclosure-24z-1 38 NF3 IP31	24		Weight 4.3 kg	RAL 9016	MKM13-N-24-31-Z
	Wall-mounting metal distribution enclosure-36z-1 36 NF3 IP31	36	Enclosure: 540×310×120	Number of inputs: 3 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-36-31-Z
	Wall-mounting metal distribution enclosure-36z-1 38 NF3 IP31	36		Weight 6.9 kg	RAL 9016	MKM13-N-36-31-Z
	Wall-mounting metal distribution enclosure-48z-1 36 NF3 IP31	48	Enclosure: 620×310×120	Number of inputs: 3 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-48-31-Z
	Wall-mounting metal distribution enclosure-48z-1 38 NF3 IP31	48		Weight 7.6 kg	RAL 9016	MKM13-N-48-31-Z

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal distribution enclosure-54z-136 NF3 IP31	54	Enclosure: 540×440×120	Number of inputs: 5 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-54-31-Z
	Wall-mounting metal distribution enclosure-54z-138 NF3 IP31	54		Weight 9.2 kg	RAL 9016	MKM12-N-54-31-Z
	Wall-mounting metal distribution enclosure-72z-136 NF3 IP31	72	Enclosure: 540×600×120	Number of inputs: 6 holes ⌀31 mm (bottom).	RAL 7035	MKM14-N-72-31-Z
	Wall-mounting metal distribution enclosure-72z-138 NF3 IP31	72		Weight 12.2 kg	RAL 9016	MKM12-N-72-31-Z

Wall-mounting metal distribution enclosures (IP54)

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal distribution enclosure-12z-0N2 IP54	12	Enclosure: 240×330×120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 3.6 kg	RAL 7035	MKM11-N-12-54-Z
	Wall-mounting metal distribution enclosure-18z-0N2 IP54	18	Enclosure: 240x440x120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 4.2 kg	RAL 7035	MKM11-N-18-54-Z
	Wall-mounting metal distribution enclosure-24z-0N2 IP54	24	Enclosure: 410×330×120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 5.4 kg	RAL 7035	MKM11-N-24-54-Z
	Wall-mounting metal distribution enclosure-36z-0N2 IP54	36	Enclosure: 540×330×120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 6.7 kg	RAL 7035	MKM11-N-36-54-Z
	Wall-mounting metal distribution enclosure-48z-0N2 IP54	48	Enclosure: 670×330×120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 8.1 kg	RAL 7035	MKM11-N-48-54-Z

Modular metal enclosures

TITAN

	Name	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal distribution enclosure-54z-0 N2 IP54	54	Enclosure: 540x440x120	Number of inputs: 5 holes ⌀20 mm (bottom). Weight: 7.7 kg	RAL 7035	MKM11-N-54-54-Z
	Wall-mounting metal distribution enclosure-72z-0 N2 IP54	72	Enclosure: 540x660x120	Number of inputs: 10 holes ⌀20 mm (bottom). Weight: 11.7 kg	RAL 7035	MKM11-N-72-54-Z

Flush-mounting metal distribution enclosures TREND series

Designed for the assembly of distribution boards using modular equipment, for the input and distribution of electricity, as well as for the protection of 230/400 V networks from overload and short-circuit currents.

Advantages

- Increased corrosion resistance.
- High quality coating.
- Rigid structure.
- One safety lock.
- High manufacturability and ease of assembly.
- Several colors and paint options.
- High level of electrical safety.
- Certificate of conformity.

Specifications

Installation type	flush-mounting
Metal thickness	0.8-1.0 mm
Rated current	up to 125 A
Cover type	powder, shagreen / gloss
Color	RAL 7035 (gray), RAL 9016 (white)
Degree of protection	IP31
Door opening angle	105°
Apparatus type	modular
Climatic modification	NF3

Design features

Improved appearance – beveled angles.

Protective operational panel eliminating electric shock during the operation of the finished product.

Galvanized rail for fastening N and PE busbars.

The rigidity of the enclosure structure has been significantly increased.

Component parts
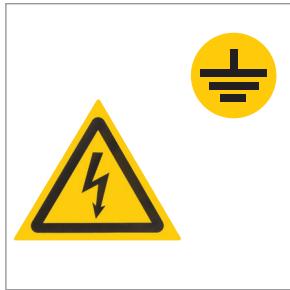
Electrical safety signs
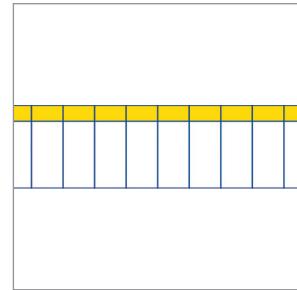
Marking table

Color
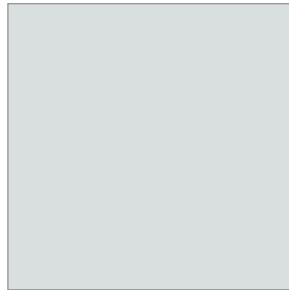
RAL 7035

RAL 9016

Explanation of designations

Flush-mounting metal distribution enclosure-72z-3 36 NF3 IP31 TREND

9–72 – maximum number of modules
z – with a lock
3 – modification number
3 – type of coating
    3 – EPR / shagreen
    5 – EPR / gloss
6 – paint color
    6 – RAL 7035
    8 – RAL 9016
NF3 – climatic modification
IP31 – degree of protection
TREND – series name

Assortment

	Name	Number of modules	Color	Specifications	Overall dimensions (H×W×D), mm	Article
	Flush-mounting metal distribution enclosure-12z-3 36 NF3 IP31 TREND	12	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 2.3 kg	Enclosure: 265×310×120. Niche: 230×275×125	MKM14-V-12-30-T
	Flush-mounting metal distribution enclosure-12z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-12-31-TW
	Flush-mounting metal distribution enclosure-18z-3 36 NF3 IP31 TREND	18	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 3.3 kg	Enclosure: 265×440×120. Niche: 230×405×125	MKM14-V-18-30-T
	Flush-mounting metal distribution enclosure-18z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-18-31-TW
	Flush-mounting metal distribution enclosure-24z-3 36 NF3 IP31 TREND	24	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 3.3 kg	Enclosure: 395×310×120. Niche: 360×275×125	MKM14-V-24-30-T
	Flush-mounting metal distribution enclosure-24z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-24-31-TW
	Flush-mounting metal distribution enclosure-36z-3 36 NF3 IP31 TREND	36	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 5 Kg	Enclosure: 540×310×120. Niche: 505×275×125	MKM14-V-36-30-T
	Flush-mounting metal distribution enclosure-36z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-36-31-TW
	Flush-mounting metal distribution enclosure-48z-3 36 NF3 IP31 TREND	48	RAL 7035	Number of inputs: 1 hole 140×30 mm (top and bottom). Weight: 6 Kg	Enclosure: 620×310×120. Niche: 585×275×125	MKM14-V-48-30-T
	Flush-mounting metal distribution enclosure-48z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-48-31-TW
	Flush-mounting metal distribution enclosure-54z-3 36 NF3 IP31 TREND	54	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 7.4 kg	Enclosure: 540×440x120. Niche: 505×405×125	MKM14-V-54-30-T
	Flush-mounting metal distribution enclosure-54z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-54-31-TW
	Flush-mounting metal distribution enclosure-72z-3 36 NF3 IP31 TREND	72	RAL 7035	Number of entries: 1 hole 140×30 mm (top and bottom). Weight: 9.9 kg	Enclosure: 540×600×120. Niche: 505×565×125	MKM14-V-72-30-T
	Flush-mounting metal distribution enclosure-72z-3 58 NF3 IP31 TREND		RAL 9016			MKM14-V-72-31-TW

![IEK logo]

TITAN
Wall(flush)-mounting metal enclosures for metering and distribution

Designed for the assembly of metering and distribution boards using modular equipment,
for the input and distribution, metering and distribution of electricity, as well as for the protection of 230/400 V networks
from overload and short-circuit currents.

TITAN

Advantages

- Increased corrosion resistance.
- High quality coating.
- One safety lock.
- High manufacturability and ease of assembly.
- High level of electrical safety.
- Certificate of conformity.

Specifications

Installation type	wall-mounted, flush-mounted
Metal thickness	0.8-1.0 mm
Rated current	up to 125 A
Cover type	powder, shagreen / gloss
Color	RAL 7035 (gray), RAL 9016 (white)
Degree of protection	wall-mounting- IP31, IP54,flush-mounting – IP31
Door opening angle	105°
Apparatus type	modular
Climatic modification	NF3 for IP31, N2 for IP54

Design features

The protective separate operational panel excludes the possibility of electric shock during the operation of the product, and also allows sealing the input device without restricting access to group devices.

In the IP54 version, the multi-faceted protective channel of the enclosure prevents the ingress of dirt and water when the door is opened.

The universal mounting panel for the meter allows you to install any type of single-phase or three-phase meters without additional adapters.

A seal made of expanded polyurethane is provided in the IP54 version.

Information window for easy meter reading.

Mounting rail for fixing N and PE* busbars.

Component parts
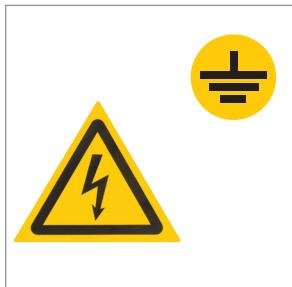
Electrical safety signs
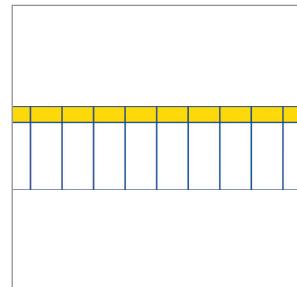
Marking table

Glands (for IP54 enclosures)

Color
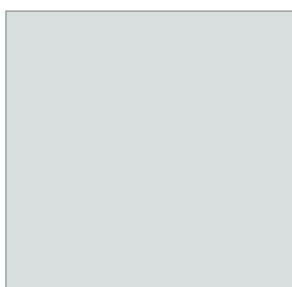
RAL 7035

RAL 9016

* N and PE busbars are sold separately.

IEK

Explanation of designations

Wall-mounting metal enclosure for metering and distribution-3/12zo-1 36 NF3 IP31

1,3 – meter type (single-, three-phase)
9–48 – number of modules
z – with a lock
o – with a window
1 – modification number
    0 – with integral operative panel for IP31; with split access panel for IP54
    1 – with a separate operating panel for IP31; with one-piece operating panel for IP54
3 – type of coating
    3 – EPR/shagreen
    6 – paint color
    6 – RAL 7035
    8 – RAL 9016
NF3, N2 – climatic modification
IP31 – degree of protection
IP54 – degree of protection

Modular metal enclosures

TITAN

Assortment

Flush-mounting metal enclosure for metering and distribution (IP31)	Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Flush-mounting metal enclosure for metering and distribution-1/9zo-1 36 NF3 IP31	1	9	Enclosure: 490×330×145. Niche: 445×285×150	Number of inputs: 1 hole 140×30 mm (top and bottom). Weight: 4.5kg	RAL 7035	MKM24-V-09-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/12zo-1 36 NF3 IP31	1	12	Enclosure: 480×320×165. Niche: 435×275×170	Number of inputs: 1 hole 140×30 mm (top and bottom). Weight: 4.6 kg	RAL 7035	MKM25-V-12-31-ZO
	Flush-mounting metal enclosure for metering and distribution-3/12zo-1 36 NF3 IP31	3	12	Enclosure: 550×320×165. Niche: 505×275×170	Number of inputs: 1 hole 140×30 mm (top and bottom). Weight: 5.3 kg	RAL 7035	MKM35-V-12-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/15zo-1 36 NF3 IP31 *	1	15	Enclosure: 490×490×145. Niche: 445×445×150	Number of inputs: 2 holes 140×30 mm each (top and bottom). Weight: 6.6 kg	RAL 7035	MKM24-V-15-31-ZO

*Standard custom items.

	Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Flush-mounting metal enclosure for metering and distribution-3/18zo-1 36 NF3 IP31	3	18	Enclosure: 580×490×165. Niche: 535×445×170	Number of inputs: 2 holes 140×30 mm each (top and bottom). Weight: 8.1 kg	RAL 7035	MKM34-V-18-31-ZO
	Flush-mounting metal enclosure for metering and distribution-3/30zo-1 36 NF3 IP31	3	30	Enclosure: 550×500×165. Niche: 505×455×170	Number of inputs: 1 holes 230×30 mm each (top and bottom). Weight: 8.4 kg	RAL 7035	MKM35-V-30-31-1-ZO
	Flush-mounting metal enclosure for metering and distribution-3/48zo-1 36 NF3 IP31	3	48	Enclosure: 550×610×165. Niche: 505×565×170	Number of inputs: 1 hole 210×30 mm each (top and bottom). Weight: 10.0 kg	RAL 7035	MKM35-V-48-31-ZO

Wall-mounting metal enclosures for metering and distribution (IP31)

	Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal enclosure for metering and distribution-1/9zo-1 36 NF3 IP31	1	9	Enclosure: 470×260×145	Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 4,3 kg	RAL 7035	MKM22-N-09-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/9zo-1 38 NF3 IP31	1	9			RAL 9016	MKM24-N-09-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/15zo-1 36 NF3 IP31	1	15	Enclosure: 470×400×145	Number of inputs: 5 holes ⌀31 mm (bottom). Weight: 6,3 kg	RAL 7035	MKM22-N-15-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/9zo-1 36 NF3 IP31	3	9	Enclosure: 540×290×165	Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 5.5 kg	RAL 7035	MKM32-N-09-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/12zo-1 36 NF3 IP31	1	12	Enclosure: 395×310×165	Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 4.5kg	RAL 7035	MKM25-N-12-31-ZO
	Wall-mounting metal enclosure for metering and distribution-1/12zo-1 38 NF3 IP31	1	12			RAL 9016	MKM23-N-12-31-ZO

Modular metal enclosures

TITAN

	Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
	Wall-mounting metal enclosure for metering and distribution-3/12zo-1 36 NF3 IP31	3	12	Enclosure: 540×310×165	Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 5.9 kg	RAL 7035	MKM35-N-12-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/12zo-1 38 NF3 IP31	3	12			RAL 9016	MKM33-N-12-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/18zo-1 36 NF3 IP31	3	18	Enclosure: 560×440×165	Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 8.3 kg	RAL 7035	MKM32-N-18-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/18zo-1 38 NF3 IP31	3				RAL 9016	MKM34-N-18-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/24zo-1 36 NF3 IP31	3	24	Enclosure: 560×480×165	Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 10.4 kg	RAL 7035	MKM32-N-24-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/24zo-1 38 NF3 IP31	3				RAL 9016	MKM34-N-24-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/9zo-1 36 NF3 IP31	3	9	Enclosure: 540×290×165	Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 5.5 kg	RAL 7035	MKM32-N-09-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/30zo-1-1 36 NF3 IP31	3	30	Enclosure: 540×440×165	Number of inputs: 5 holes ⌀31 mm (bottom). Weight: 9.4 kg	RAL 7035	MKM35-N-30/1-1-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/30zo-1 38 NF3 IP31	3				RAL 9016	MKM35-N-30-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/30zo-1 36 NF3 IP31	3	30	Enclosure: 540×490×165	Number of inputs: 5 holes ⌀31 mm (bottom). Weight: 9.4 kg	RAL 7035	MKM35-N-30-1-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/30zo-1 38 NF3 IP31	3	30			RAL 9016	MKM35-N-30-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/36zo-1 36 NF3 IP31	3	36	Enclosure: 560x550x165	Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 11.5 kg	RAL 7035	MKM32-N-36-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/36zo-1 38 NF3 IP31	3				RAL 9016	MKM33-N-36-31-ZO
	Wall-mounting metal enclosure for metering and distribution-3/42zo-1 36 NF3 IP31	3	42	Enclosure: 560x600x165	Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 12.7 kg	RAL 7035	MKM32-N-42-31-ZO

Modular metal enclosures

TITAN

Wall-mounting metal enclosures for metering and distribution (IP54)

Name	Meter type	Number of modules	Overall dimensions (H×W×D), mm	Specifications	Color	Article
Wall-mounting metal enclosure for metering and distribution-3/48z-1 36 NF3 IP31	3	48	Enclosure: 540×600×165	Input quantity: 6 holes ∅31 mm (bottom). Weight: 11.1 kg	RAL 7035	MKM35-N-48-31-Z
Wall-mounting metal enclosure for metering and distribution-3/48zo-1 36 NF3 IP31					RAL 7035	MKM35-N-48-31-ZO
Wall-mounting metal enclosure for metering and distribution-3/48zo-1 38 NF3 IP31					RAL 9016	MKM33-N-48-31-ZO
Wall-mounting metal enclosure for metering and distribution-1/12z-0 N2 IP54	1	12	Enclosure: 395×310×165	Number of inputs: 3 holes ∅31 mm (bottom). Weight: 5.4 kg	RAL 7035	MKM22-N-12-54-Z
Wall-mounting metal enclosure for metering and distribution-1/12zo-0 N1 IP54	1	12	Enclosure: 395×310×165	Number of inputs: 3 holes ∅31 mm (bottom). Weight: 5.4 kg	RAL 7035	MKM22-N-12-54-ZO
Wall-mounting metal enclosure for metering and distribution-3/12z-0 N2 IP54	3	12	Enclosure: 540×310×165	Number of inputs: 3 holes ∅31 mm (bottom). Weight: 7.1 kg	RAL 7035	MKM32-N-12-54-Z
Wall-mounting metal enclosure for metering and distribution-3/12zo-0 N1 IP54	3	12	Enclosure: 540×310×165	Number of inputs: 3 holes ∅31 mm (bottom). Weight: 7.1 kg	RAL 7035	MKM32-N-12-54-ZO

Modular metal enclosures

TITAN

TITAN

Wall-mounting metal enclosures for metering

Designed for the assembly of input metering boards using modular equipment, for input and metering of electricity in residential and industrial premises.

Advantages

- Outdoor installation.
- Increased corrosion resistance.
- High quality coating.
- Small-sized design.
- High manufacturability and ease of assembly.
- Ease of installation.
- High level of electrical safety.
- Quality certificate.

Specifications

Installation type	wall-mounted
Metal thickness, mm	1.0
Rated current, A	50
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Degree of protection	IP54, IP66
Door opening angle	120°
Apparatus type	modular
Climatic modification	N1

Design features

Allow to separately place various modular devices.
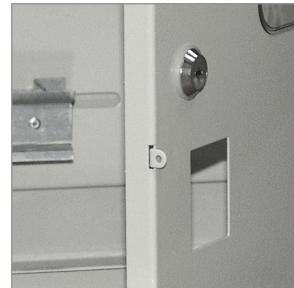
The possibility of sealing the operational panel in the closed condition is provided.

Operational panel covering the electricity meter and electrical devices. The panel is attached to the enclosure with hinges and locked with an individual lock.

An additional enclosure visor prevents the ingress of dirt and water when the door isopened.

The operational panel has a window for taking readings of the electricity meter and a slot for access to the protection device.

Foamed polyurethane seal.

Component parts
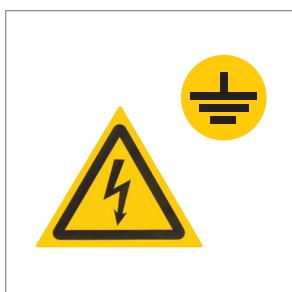
Electrical safety signs

Glands

Explanation of designations

Wall-mounting metal enclosure for metering-1/110 74 N1 IP66

1, 3 – meter type (single-, three-phase)
1 – number of meters
0 – modification number
      0 – no operational panel
      1 – with an operational panel in the form of a door
7 – type of coating
      7 – PPK / shagreen
4 – paint color
      4 – RAL 7035
N1 – climatic modification
IP66 – degree of protection

Assortment

	Standard size	Meter type	Maximum number of modules	Overall dimensions (H×W×D)	Specifications	Color	Article
	Wall-mounting metal enclosure for metering 1/1-0 N1 IP66 IEK	1	2	310×300×150	Number of inputs: 2 holes ⌀28 mm (bottom). Weight 3.9 kg	RAL 7035	MKM51-N-01-54
	Wall-mounting metal enclosure for metering 1/2-0 N1 IP54	1	2	310×420×150	Number of inputs: 2 holes ⌀28 mm (bottom). Weight 5.3 kg	RAL 7035	MKM51-N-02-54
	Wall-mounting metal enclosure for metering 3/1-0 N1 IP66 IEK	3	3	395×310×150	Number of inputs: 3 holes ⌀28 mm (bottom). Weight 5.0 kg	RAL 7035	MKM51-N-03-54
	Wall-mounting metal enclosure for metering 1/1-1 N1 IP66 IEK	1	6 (4 and 2)	310×300×150	Number of inputs: 2 holes ⌀28 mm (bottom). Weight 5.3 kg	RAL 7035	MKM51-N-04-66
	Wall-mounting metal enclosure for metering 3/1-1 N1 IP66 IEK	3	12 (4, 4, 4)	445×400×150	Number of inputs: 2 holes ⌀28 mm (bottom). Weight 8.7 kg	RAL 7035	MKM51-N-09-66

Kit for mounting metal enclosures

The kit is designed for mounting metal enclosures:
- on SV95 and SV105 reinforced concrete racks – fastening using brackets;
- on poles with a circular cross-section with a diameter of up to 350 mm – fastening using mounting strips.

The largest mass of the fixed electrical panel is 80 kg.

Name	Article
Kit for fastening the metal enclosure to the pole with a wiring strip	YKK-0-125
Kit for fastening the metal enclosure to the pole with a bracket	YKK-0-126
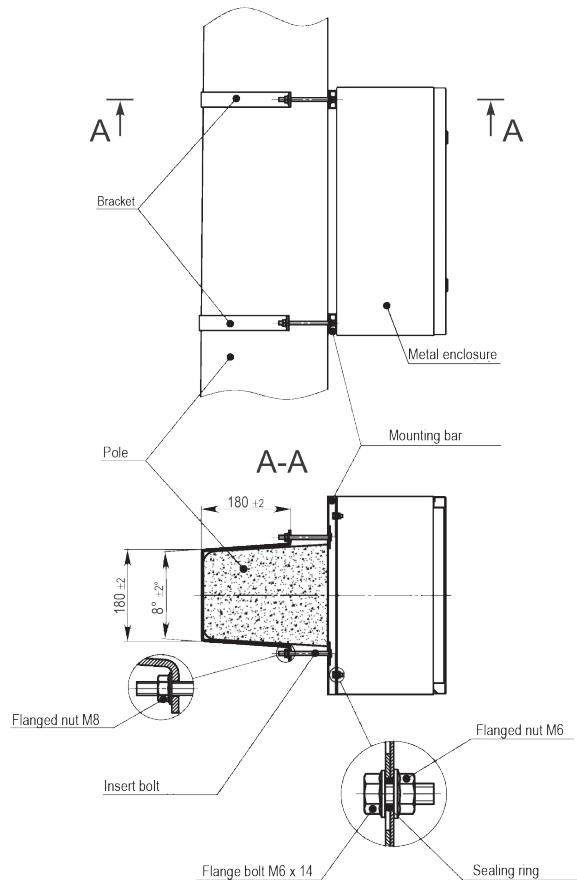
Accessories	Fastening with brackets	Fastening with wiring strips
Mounting bar, pcs.	2	–
mounting panel assembly, pcs.	–	2
Bracket, pcs.	2	–
Mounting strip, pcs.	–	2
Mortgage bolt, pcs.	4	–
Sleeve, pcs.	–	4
Bolt M8×100, pcs.	–	2
Flanged bolt M6×14, pcs.	4	4
Flanged nut M6, pcs.	4	4
Flanged nut M8, pcs.	4	2
O-ring, pcs.	4	4
Passport, copies	1	1
Packaging, kits	1	1

Scheme of fastening the enclosure to the pole with a bracket

Scheme of fastening the enclosure to the pole with a wiring strip

TITAN
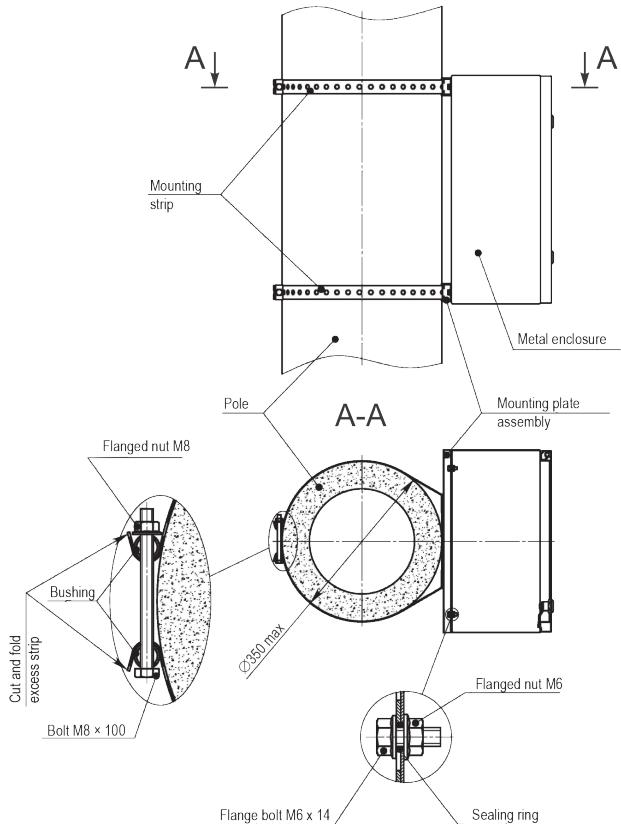
Metal enclosures for staircase distribution boards

Used for assembling staircase distribution boards for receiving and distributing electricity in residential and public buildings, as well as for protecting outgoing lines during overloads and short circuits.

The welded metal enclosure consists of three compartments: input and metering, distribution, and low-current equipment compartment.

Perforated bars for meter fastening (as per number of apartments) are located in the input and metering compartment of metal enclosures for staircase distribution board X-1; a mounting panel is installed in metal enclosures for staircase distribution board X-6.

It is possible to install a trunk main tripping device in the same compartment.

In the distribution compartment, there are DIN rails for branch-circuit line devices and elements for installing N and PE buses. The compartment is equipped with an operational panel.

The low-current equipment compartment is equipped with perforated profiles for laying television and radio networks, telephone lines, security alarm networks, intercoms, etc. A dividing partition is located between the low-current and power compartments.

Advantages

- Increased corrosion resistance.
- High quality coating.
- High manufacturability and ease of assembly.
- Ease of installation.
- High level of electrical safety.
- Certificate of conformity.
- The service life is at least 25 years.

Specifications

Installation type	wall-mounting, flush-mounting is possible
Metal thickness	1.0 mm
Rated current for one apartment	50 A
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Degree of protection	IP31
Door opening angle	105°
Climatic modification	NF3

Design features
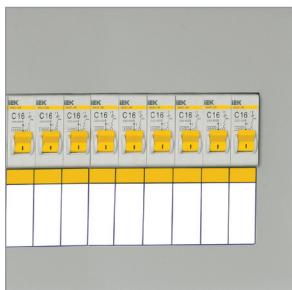
Number of modules per apartment:
- up to 9 modules in metal enclosures for staircase distribution board-X-1, metal enclosures for staircase distribution board-X-6 and metal enclosures for staircase distribution board LIGHT for 1, 2, 3, 4 apartments;
- up to 7 modules in metal enclosures for staircase distribution board-X-1270 for 5 and 6 apartments.

Possibility of a wall-mounting version when using an additional casing:
- for metal enclosures for staircase distribution board-X-1, metal enclosures for staircase distribution board-X-6 and metal enclosures for staircase distribution board LIGHT, a casing for wall-mounting version (MKM42-00-31) is used;
- for metal enclosures for staircase distribution board-X-1270, a casing for metal enclosures for staircase distribution board-1270 (MKM42-1270-31) is used for wall-mounting version.
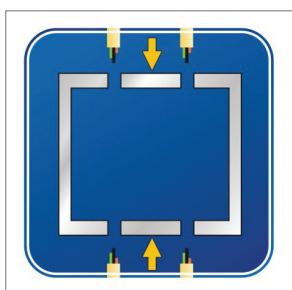
Possibility of installing a board after laying the main line.

The door of the input and metering compartment has windows for taking meter readings.
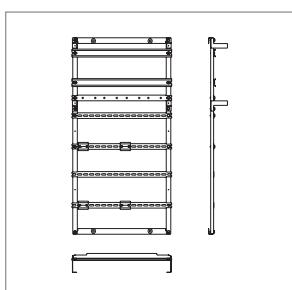
Removable mounting frame in metal enclosures for staircase distribution board-X-1 and metal enclosures for staircase distribution board LIGHT. The meters can be installed both on three mounting points and a DIN rail in metal enclosures for staircase distribution board X-1. In metal enclosures for staircase distribution board LIGHT – on a DIN rail.
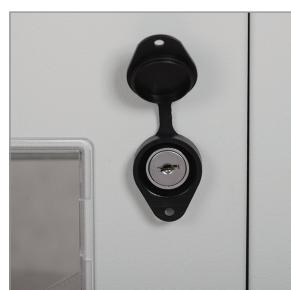
Possibility of sealing the metering compartment (using the lock cover).

Each of the compartments is closed with a separate door. The lock for the low-current compartment is different from the lock for other compartments.

The removable mounting panel of metal enclosures for staircase distribution board X-6 allows the meters to be installed both on three mounting points and on a DIN rail.

Complete set of metal enclosures for staircase distribution board-X-1

Data sheet
Assembly instructions
High Voltage and Ground signs
Marking table
DIN rails
Buses N 6×9 8/1
Buses N 6×9 8/2
DIN rail insulators
Clip U733M
Metalware

Complete set of metal enclosures for staircase distribution board-X-6*

Data sheet
Assembly instructions
High Voltage and Ground signs
Marking table
Metalware

Complete set of metal enclosures for staircase distribution board LIGHT*

Data sheet

---

* Mounting kits for metal enclosures for staircase distribution board-X-6 and metal enclosures for staircase distribution board LIGHT are purchased separately.

Modular metal enclosures

Explanation of designations

Metal enclosure for staircase distribution board-2-1 36 NF3 IP31

2, 3, 4 –	number of meters
1 –	modification number
3 –	type of EPA coating / shagreen
6 –	paint color RAL 7035
NF3 -	climatic modification
IP31 –	degree of protection

Metal enclosure for staircase distribution board-2-6 36 NF3 IP31

2, 3, 4 –	number of meters
6 –	modification number
3 –	type of EPA coating / shagreen
6 –	paint color RAL 7035
NF3 -	climatic modification
IP31 –	degree of protection

Assortment

	Standard size	Overall dimensions, mm (H×W×D)	Weight, kg	Article
	Metal enclosure for staircase distribution board-2-1 36 NF3	Enclosure: 1000×960×157. Niche 950×900×140	19.9	MKM42-02-31
	Metal enclosure for staircase distribution board-2-6 36 NF3		16.5	MKM42-2-6-31
	Metal enclosure for staircase distribution board-2 36 NF3 IP31 LIGHT		16.4	MKM42-02-31-L
	Metal enclosure for staircase distribution board-2 36 NF3 (without windows) IP31 LIGHT		16.4	MKM42-02-31-WW-L
	Metal enclosure for staircase distribution board-3-1 36 NF3	Enclosure: 1000×960×157. Niche 950×900×140	20.3	MKM42-03-31
	Metal enclosure for staircase distribution board-3-6 36 NF3		16.4	MKM42-3-6-31
	Metal enclosure for staircase distribution board-3 36 NF3 IP31 LIGHT		17.0	MKM42-03-31-L
	Metal enclosure for staircase distribution board-3(4) 36 NF3 (without windows) IP31 LIGHT		17.0	MKM42-04-31-WW-L
	Metal enclosure for staircase distribution board-4-1 36 NF3 IP31	Enclosure: 1000×960×157. Niche 950×900×140	19.9	MKM42-04-31
	Metal enclosure for staircase distribution board-4-6 36 NF3 IP31		16	MKM42-4-6-31
	Metal enclosure for staircase distribution board-4 36 NF3 IP31 LIGHT		16.4	MKM42-04-31-L
	Metal enclosure for staircase distribution board-3(4) 36 NF3 (without windows) IP31 LIGHT		16.4	MKM42-04-31-WW-L
	Metal enclosure for staircase distribution board-5-1 36 NF3 IP31	Enclosure: 1000×960×157. Niche 950×900×140	20.3	MKM42-05-31
	Metal enclosure for staircase distribution board-5 36 NF3 IP31 LIGHT		16	MKM42-05-31-L
	Metal enclosure for staircase distribution board-6-1 36 NF3 IP31	Enclosure: 1000×960×157. Niche 950×900×140	20.3	MKM42-06-31
	Metal enclosure for staircase distribution board-6 36 NF3 IP31 LIGHT		16	MKM42-06-31-L
	Metal enclosure for staircase distribution board-5-1270 36 NF3	Enclosure: 1275×958×157 Niche: 1200×900×140	24.5	MKM42-05-1270-31
	Metal enclosure for staircase distribution board-6-1270 36 NF3	Enclosure: 1275×958×157 Niche: 1200×900×140	24.8	MKM42-06-1270-31

Optional accessories	Standard size	Overall dimensions, mm (H×W×D)	Weight, kg	Article
	Casing for wall-mounting version	994×954×157	8.5	MKM42-00-31
	Casing for wall-mounting of metal enclosures for staircase distribution board-1270	1269×954×157	9.5	MKM42-1270-31
	Mounting kit for metal enclosure for staircase distribution board-2*			MKM-40-2
	Mounting kit for metal enclosure for staircase distribution board-3*			MKM-40-3
	Mounting kit for metal enclosure for staircase distribution board-4*			MKM-40-4

Mounting kits components	Quantity in a mounting kit, pcs.		
	Metal enclosure for staircase distribution board-2	Metal enclosure for staircase distribution board-3	Metal enclosure for staircase distribution board-4
T-connector U-733M (16-35/1.5-10 mm²) IP20	5	5	5
N bus on DIN-insulator -6×9-8-D-S	2	3	4
PEN bus 6×9 mm 8/2 (8 groups/fittings on the edges)	2	3	4
Screw M4×10	4	6	8

Metal enclosures for staircase distribution board without a low-current compartment

Metal enclosures for staircase distribution boards are used for assembling staircase distribution boards for receiving and distributing electricity in residential and public buildings, as well as for protecting outgoing lines during overloads and short circuits.

The welded metal enclosure consists of two compartments: input/metering and distribution.

In the input and metering compartment of the metal enclosures for staircase distribution board-X-2, there are DIN rails for fixing the meters (according to the number of apartments).

In the distribution compartment, there are DIN rails for branch-circuit line devices and elements for installing N and PE buses. The compartment is equipped with an operational panel.

A wall-mounting version of the metal enclosure for staircase distribution board-X-2 is possible when using an additional casing.

Advantages

- Increased corrosion resistance.
- High quality coating.
- High manufacturability and ease of assembly.
- Ease of installation.
- High level of electrical safety.
- Certificate of conformity.
- The service life is at least 25 years.

Specifications

Installation type	wall-mounting, flush-mounting is possible
Rated current for one apartment	50 A
Cover type	powder, shagreen (matt)
Color	RAL 7035 (gray)
Degree of protection	IP31
Door opening angle	105°
Climatic modification	NF3
Apparatus type	modular

Design features

Distribution compartment for 24 modules (4 windows with 6 modules each).

Possibility of a wall-mounting version when using an additional casing.

The operational panel in the distribution compartment protects against direct contact with live parts.

Convenient windows for taking meter readings.

Possibility of sealing the metering compartment (using the lock cover).

Complete set of metal enclosures for staircase distribution board-X-2

Data sheet
Assembly instructions
Electrical safety signs
Marking table
DIN rails
Bus 6×9 8/1
Bus 6×9 8/2
DIN rail insulator
Clip
Metalware
Rail for PE bus

Explanation of designations

Metal enclosure for staircase distribution board-2-2 36 NF3 IP31

2, 3, 4 –   number of meters
2 –   modification number (without low-current compartment)
3 –   type of EPA coating / shagreen
6 –   paint color RAL 7035
NF3 -   climatic modification
IP31 –   degree of protection

Assortment

	Standard size	Overall dimensions, mm (H×W×D)	Weight, kg	Article
	Metal enclosure for staircase distribution board -2-2 36 NF3 IP31	Enclosure: 890×550×157. Niche: 840×490×140	10.4	IND-MKM12-02-30
	Metal enclosure for staircase distribution board -3-2 36 NF3 IP31	Enclosure: 890×550×157. Niche: 840×490×140	10.5	IND-MKM12-03-30
	Metal enclosure for staircase distribution board -4-2 36 NF3 IP31	Enclosure: 890×550×157. Niche: 840×490×140	10.6	IND-MKM12-04-30
	Casing for wall-mounting version of the metal enclosure for staircase distribution board-X-2	884×546×157	6	MKM42-002-31

Metal assembling enclosure for staircase distribution modular board

The metal assembling enclosure for staircase distribution modular board is used to make a staircase distribution modular board (SDMB)on its basis. In turn, the metal assembling enclosure for staircase distribution modular board is intended for the reception, metering and distribution of electricity in 400/230 V networks, as well as the placement of devices for low-current networks (television and radio networks, telephone lines, intercoms, etc.) and equipment for an automated meter reading and control system (ACEMS).

The metal assembling enclosure for staircase distribution modular board is a collapsible structure, consisting of separately supplied elements: a cover of electrical cabinet for staircase distribution modular board, in which a power cable is laid, a communication and signaling box, metal enclosure for metering and distribution, as well as compensators for the possibility of height adjustment.

Advantages

- Ease of installation and service provided by removable front panels and removable mounting panels.
- Possibility of assembling both right and left positions, depending on the required design.
- The light weight of individual blocks allows you to easily lift to any floor and install the panel on the floor.
- Wide assortment, various designs in height from 2380 to 3850 mm.
- Increased corrosion resistance.
- Ease of assembly.

Specifications

Installation type	floor type, wall-mounting
Enclosure depth	150 mm
Metal thickness	0,8÷1,0 mm
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Degree of protection	IP31
Climatic modification	NF3

Design features
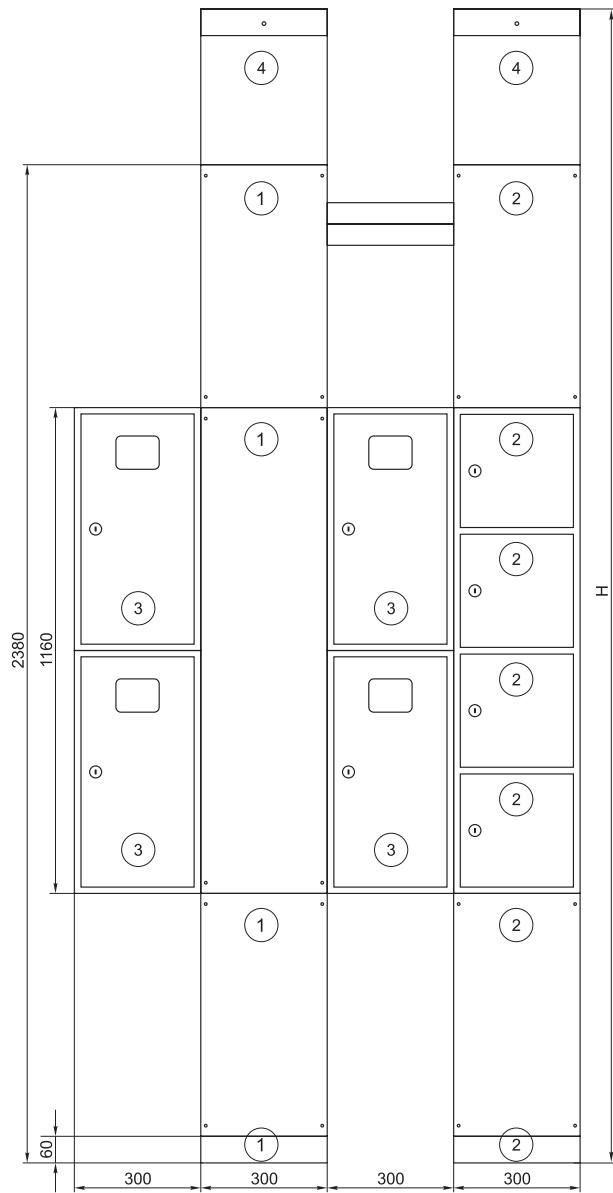
1 – Cover of electrical cabinet for staircase distribution modular board
2 – Cover of communication cabinet for staircase distribution modular board
3 – Metal enclosure for metering and distribution
4 – Height compensator

Type design	H, mm	Depth, mm
Metal assembling enclosure for staircase distribution modular board-x-2500	2500	150
Metal assembling enclosure for staircase distribution modular board-x-2600	2600	150
Metal assembling enclosure for staircase distribution modular board-x-2700	2700	150
Metal assembling enclosure for staircase distribution modular board-x-2800	2800	150
Metal assembling enclosure for staircase distribution modular board-x-2850	2850	150
Metal assembling enclosure for staircase distribution modular board-x-2950	2950	150
Metal assembling enclosure for staircase distribution modular board-x-3300	3300	150
Metal assembling enclosure for staircase distribution modular board-x-3850	3850	150

Assortment

Name	Article
Metal enclosure for metering and distribution-3/12	IND-YAUR-3-12
Cover of electrical cabinet for staircase distribution modular board	IND-KET-1
Cover of communication cabinet for staircase distribution modular board	IND-KSS-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2500 (qty 2pcs.)*	IND-KOMP-2500-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2600 (qty 2pcs.)*	IND-KOMP-2600-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2700 (qty 2pcs.)*	IND-KOMP-2700-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2800 (qty 2pcs.)*	IND-KOMP-2800-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2850 (qty 2pcs.)*	IND-KOMP-2850-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-2950 (qty 2pcs.)*	IND-KOMP-2950-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-3300 (qty 2pcs.)*	IND-KOMP-3300-1
Height compensator for metal assembling enclosure for staircase distribution modular board-X-3850 (qty 2pcs.)*	IND-KOMP-3850-1
Metal enclosure for metering-290-300 36 NF3 IP31**	IND-MKM51-YAU-290-300

Component parts
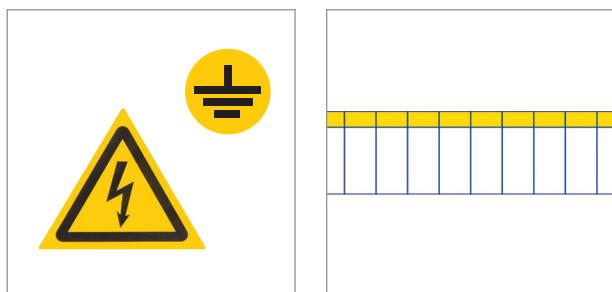
Electrical safety signs

Marking table

* Items to be ordered.
** Overall dimensions (HxWxD): 290×300×150 mm.

LIGHT series metal assembling enclosure for staircase distribution modular board

Metal assembling enclosures for staircase distribution modular boards IEK® are designed for input, metering and distribution of electricity in 380/220 V networks, placement of protection devices for outgoing lines from overloads and short circuits, as well as for placement of low-current networks and ACEMS equipment.
Modern design solution for receiving, distributing and metering electricity in multi-storey residential buildings.

Advantages

- Installation in buildings with unintended niches, with no cable draws.
- Possibility to combine different variations according to the number of apartments on the floor and the height of the ceilings.
- Lightweight design.
- Ease of installation.

Specifications

Version	floor type, wall-mounting
Degree of protection	IP31, IK06
Climatic modification	NF3
Color	grey (RAL7035)

Design features

Convenient installation over the laid trunk cables due to the completely overhead design of the cover of electrical cabinet for staircase distribution modular board.

Universal mounting panel for any type of meters.
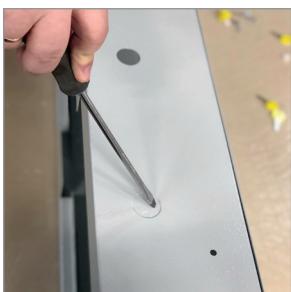
Knock-out holes on the side surfaces speeds up the installation process.

Universal height compensators have a stroke of 100-200 mm and are suitable for non-standard spans.

Component parts
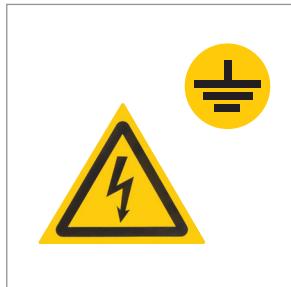
Electrical safety signs
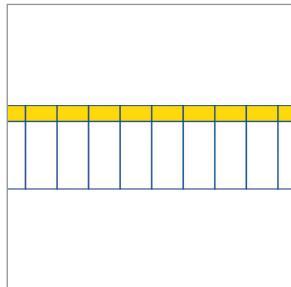
Marking table

Assortment

	Article	Name	Units of measurement	Overall dimensions (H×W×D), cm	Height between floors, cm											
					24	25-26	26-28	28-30	30	31-32	32-34	34-36	36	37-38	38-40	40-42
	IND-KSS-1-L	Cover of communication cabinet for staircase distribution modular board LIGHT	pcs.	180×30×15	+	+	+	+	+	+	+	+	+	+	+	+
	IND-KET-1-L	Cover of electrical cabinet for staircase distribution modular board LIGHT	pcs.	180×30×13	+	+	+	+	+	+	+	+	+	+	+	+
	IND-YAUR-3-12-L	Metal enclosure for metering and distribution -3/12 LIGHT	pcs.	58×30×15	+	+	+	+	+	+	+	+	+	+	+	+
	IND-KET-KCC-1-0600-L	Upper cover of electrical cabinet for staircase distribution modular board/cover of communication cabinet for staircase distribution modular board-600 LIGHT	(2 pcs/set)	58×30×15	+	+	+	+								
	IND-KET-KCC-1-1200-L	Upper cover of electrical cabinet for staircase distribution modular board/cover of communication cabinet for staircase distribution modular board-1200 LIGHT	(2 pcs/set)	180×30×15					+	+	+	+				
	IND-KET-KCC-1-1800-L	Upper cover of electrical cabinet for staircase distribution modular board/cover of communication cabinet for staircase distribution modular board-1800 LIGHT	(2 pcs/set)	178×30×15									+	+	+	+
	IND-KOMP-100-200-1-L	Height compensator for metal assembling enclosure for staircase distribution modular board-100-200 LIGHT	(2 pcs/set)	12-22×30×15		+				+				+		
	IND-KOMP-200-400-1-L	Height compensator for metal assembling enclosure for staircase distribution modular board-200-400 LIGHT	(2 pcs/set)	22-42×30×15			+				+				+	
	IND-KOMP-400-600-1-L	Height compensator for metal assembling enclosure for staircase distribution modular board-400-600 LIGHT	(2 pcs/set)	42-62×30×15				+				+				+

Low voltage distribution switchboard (LVDS)

IEK

Light boards with switch, flush-mounted light boards with switch for industrial and public buildings

Designed for the reception and distribution of electricity in residential and industrial premises, as well as for the protection of lines against overloads and short-circuit currents in AC networks with a voltage of 230/400 V.
Input, three-pole, and group, single-pole, automatic switches, as well as N and PE buses are installed inside the enclosure.

Advantages

- Increased corrosion resistance.
- High quality coating.
- Small-sized design.
- Fully welded enclosure.
- High manufacturability and ease of use.
- High level of electrical safety.
- Quality certificate.

Specifications

Installation type	wall-mounted, flush-mounted
Metal thickness, mm	0,8–1,0
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Degree of protection	IP31
Door opening angle	105°
Apparatus type	modular
Rated operating voltage, V	230/400
Rated frequency, Hz	50
Rated insulation voltage, V	600
Type of grounding system	TN-C, TN-S

Design features

Solid metal enclosure with a lockable door.

The operational panel excludes the possibility of electric shock during the operation of the product.

Switching of group devices is made by a three-row connecting bus.

Explanation of designations

Light board with switch--3-63-6-0 36 NF4 IP31

3 – three-phase

    63 – incoming switch 63 A

    6 – number of branch-circuit lines

    0 – modification

    0 – all circuit breakers of branch-circuit lines 16 A

3 – type of coating

    3 – EPR/shagreen

    5 – EPR / gloss

6 – paint color

    6 – RAL 7035

NF4 – climatic modification

IP31 – degree of protection

Specifications

Specifications	Light board with switch-3-63-6-0 Flush-mounted light board with switch-3-63-6-0	Light board with switch-3-63-12-0 Flush-mounted light board with switch-3-63-12-0	Light board with switch-3-100-12-0 Flush-mounted light board with switch-3-100-12-0
Rated current of the input device, A	63	63	100
Rated current of group circuit devices, A	16	16	16
Rated breaking capacity of the input circuit breaker, kA	4.5	4.5	10
Rated breaking capacity of branch breakers, kA	4.5	4.5	4.5
Incoming switch brand	VA47-29 3P	VA47-29 3P	VA47-100 3P
Branch devices brand	VA47-29 1P	VA47-29 1P	VA47-29 1P

Assortment

	Standard size	Overall dimensions (H×W×D)	Specifications	Weight, kg	Article
	Light board with switch-3-63-6-0 36	Enclosure: 210×245×120	Input: VA47-29 3p 63 A Group: VA47-29 1r 16 A – 6 pcs.	3.3	MSM10-3N-06-31
	Light board with switch-3-63-12-0 36	Enclosure: 210×410×120	Input: VA47-29 3p 63 A Group: VA47-29 1r 16 A – 12 pcs.	5.3	MSM10-3N-12-31
	Light board with switch-3-100-12-0 36	Enclosure: 210×410×120	Input: VA47-100 3p 100 A Group: VA47-29 1r 16 A – 12 pcs.	5.3	MSM10-3N-100-12-31
	Flush-mounted light board with switch-3-63-6-0 36	Enclosure: 275×320×120. Niche: 230×275×125	Input: VA47-29 3p 63 A Group: VA47-29 1r 16 A – 6 pcs.	3.4	MSM10-3V-06-31
	Flush-mounted light board with switch-3-63-12-0 36	Enclosure: 275×450×120. Niche: 230×405×125	Input: VA47-29 3p 63 A Group: VA47-29 1r 16 A – 12 pcs.	5.4	MSM10-3V-12-31
	Flush-mounted light board with switch-3-100-12-0 36	Enclosure: 275×450×120. Niche: 230×405×125	Input: VA47-100 3p 100 A Group: VA47-29 1r 16 A – 12 pcs.	5.4	MSM10-3V-100-12-31

Low voltage distribution switchboard (LVDS)

Stepdown transformer boxes

Designed for powering local or repair lighting, as well as for connecting portable lamps and tools.
Stepdown transformer boxes have a collapsible metal enclosure, inside of which the following
components are installed:
- a single-phase step-down transformer OSO-0.25 with a power of 250 W;
– automatic switches VA47-29;
– plug socket.

Advantages

- Increased corrosion resistance.
- High quality coating.
- Small-sized design.
- High manufacturability and ease of use.
- High level of electrical safety.
- Aesthetic appearance.
- Quality certificate.

Specifications

Installation type	wall-mounted
Overall dimensions (H×W×D), mm	
for stepdown transformer box X/X-2	127×230×141
for stepdown transformer box X/X-3	127×245×141
for stepdown transformer box X/X-2(3)	190×300×210
Number of inputs for IP30	2 holes ⌀14 mm (side)
Number of inputs for IP54	2 holes with glands = 20 mm (bottom)
Rated frequency, Hz	50
Rated insulation voltage, V	600
Maximum permissible value of prospective short-circuit current, kA	4.5
Climatic modification	NF4 for IP30, NF2 for IP54
Degree of protection	IP30, IP54
Type of grounding system	TN-C, TN-S
Color	RAL 7035 (gray)
Weight, kg	6.0

Design features

Panel socket
MAGNUM with IP54 protection
(IP54 version).

In IP54 version, polyurethane
foam seal for water protection.

In IP54 version, there is
a welded metal enclosure
with pre-assembled bracket
for wall mounting.

In IP54 version, the cable entry
is below, complete with glands.

Explanation of designations

Stepdown transformer box-0,25 220/12-2 36 NF4 IP30

0,25 –	step-down transformer power, 250VA
230/380 –	primary winding voltage, V
12/24/36/42 –	secondary winding voltage, V
2 –	modification
3 –	type of coating
	3 – EPR/shagreen
6 –	paint color
	6 – RAL 7035
NF4 –	climatic modification
IP30 –	degree of protection

Assortment

	Name	Primary winding voltage	Secondary winding voltage	Article
	Stepdown transformer box-0,25-220/ 12-3 36 NF4 IP30	220	12	MTT13-012-0250
	Stepdown transformer box-0,25-220/ 24-3 36 NF4 IP30	220	24	MTT13-024-0250
	Stepdown transformer box-0,25-220/ 36-3 36 NF4 IP30	220	36	MTT13-036-0250
	Stepdown transformer box-0,25-220/ 42-3 36 NF4 IP30	220	42	MTT13-042-0250
	Stepdown transformer box-0,25-380/ 12-3 36 NF4 IP30*	380	12	MTT21-012-0250
	Stepdown transformer box-0,25-380/ 24-3 36 NF4 IP30*	380	24	MTT21-024-0250
	Stepdown transformer box-0,25-380/ 36-3 36 NF4 IP30	380	36	MTT21-036-0250
	Stepdown transformer box-0,25-380/ 42-3 36 NF4 IP30	380	42	MTT21-042-0250
	Stepdown transformer box-0,25-220/ 12-2 36 NF4 IP30	220	12	MTT12-012-0250
	Stepdown transformer box-0,25-220/ 24-2 36 NF4 IP30	220	24	MTT12-024-0250
	Stepdown transformer box-0,25-220/ 36-2 36 NF4 IP30	220	36	MTT12-036-0250
	Stepdown transformer box-0,25-220/ 42-2 36 NF4 IP30	220	42	MTT12-042-0250
	Stepdown transformer box-0,25 230/ 12-3 NF2 IP54	230	12	MTT13-012-0251-54
	Stepdown transformer box-0,25 230/ 24-3 NF2 IP54	230	24	MTT13-024-0251-54
	Stepdown transformer box-0,25 230/ 36-3 NF2 IP54	230	36	MTT13-036-0251-54
	Stepdown transformer box-0,25 230/ 42-3 NF2 IP54	230	42	MTT13-042-0251-54
	Stepdown transformer box-0,25 400/ 36-3 NF2 IP54	400	36	MTT21-036-0251-54
	Stepdown transformer box-0,25 230/ 12-2 NF2 IP54	230	12	MTT12-012-0251-54
	Stepdown transformer box-0,25 230/ 24-2 NF2 IP54	230	24	MTT12-024-0251-54
	Stepdown transformer box-0,25 230/ 36-2 NF2 IP54	230	36	MTT12-036-0251-54
	Stepdown transformer box-0,25 230/42-2 NF2 IP54	230	42	MTT12-042-0251-54

Distributor for construction sites

The distributor for construction sites is designed for the safe distribution of energy and for the connection of various electrical consumers. The scope of application is not limited to construction sites, this device can be used in allotment associations, in garage cooperatives and in many other places where the safe use of power electrical equipment is necessary.

Functions of the distributor for construction sites:

– protection of users from electric shock in case of accidental contact with live parts of electrical installations or due to damage to the insulation of live conductors.
– Protection against fire due to leakage currents to earth in places of insulation damage.
– Protection of working electrical devices from overload and short circuit currents.

Advantages

- Increased corrosion resistance.
- High quality coating.
- Small-sized design.
- High manufacturability and ease of use.
- High level of electrical safety.
- Aesthetic appearance.
- Quality certificate.
- Wall mountable.
- Voltage presence indication.

Specifications

Rated working voltage	400/230 V
Rated frequency, Hz	50
Primary circuit rated current, A	40...63
Secondary circuit rated current, A	16, 32
Rated insulation voltage, V	600
Maximum permissible value of prospective short-circuit current, kA	4.5
Climatic modification	N1
Degree of protection	IP44
Type of grounding system	TN-S
Color	RAL 7035 (gray)

Low voltage distribution switchboard (LVDS)

Component parts

Feet

Handle

Roof

Explanation of designations

Distributor for construction sites – 3×16/3+1×16/5+1×32/5-74 N1 IP44

3×16/3 –	**3** – number of sockets	
	16/3 – ampere/number of contacts	
7 –	type of coating – PPK / shagreen	
4 –	paint color	
	4 – RAL 7035	
N1 –	climatic modification	
IP44 –	degree of protection	

Assortment

Name	Overall dimensions of the board, mm (H×W×D)	Overall dimensions in the assembled condition, mm (H×W×D)	Article
Distributor for construction sites – 3×16/3+3×16/5-74 N1 IP44	322×522×160	570×522×303	YKM80-330-54
Distributor for construction sites – 3×16/3+2×16/5-74 N1 IP44	322×475×160	570×475×303	YKM80-320-54
Distributor for construction sites – 3×16/3+2×16/5+1×32/5-74 N1 IP44	322×522×160	570×522×303	YKM80-321-54
Distributor for construction sites – 3×16/3+1×32/5-74 N1 IP44	257×409×160	505×409×160	YKM80-301-54
Distributor for construction sites – 3×16/3+1×16/5-74 N1 IP44	257×409×160	505×409×160	YKM80-310-54
Distributor for construction sites – 3×16/3+1×16/5+1×32/5-74 N1 IP44	322×475×160	570×475×303	YKM80-311-54
Distributor for construction sites – 6×16/3+2×16/4 74 N1 IP44	637×342×160	910×342×160	YKM80-323-54

Selection Table

Name	Socket, IP44				RCBO				RCCB	MCB				
	414 3P + PE 16 A	415 3P + N + PE 16 A	425 3P + N + PE 32 A	RP10-3 2P + PE 16A/ 250 V	AD-14 4P 40 A 30 mA	AD-14 4P 50 A 30 mA	AD-14 4P 63 A 30 mA	VD-1-63 4P 80 A 30 mA	VA47-29 1P 16 A B	VA47-29 3P 16 A B	VA47-29 3P 20 A B	VA47-29 3P 32 A B	VA47-100 3P 80 A C
Distributor for construction sites – 3×16/3+3×16/5		3		3			1		3	3			
Distributor for construction sites – 3×16/3+2×16/5		2		3		1			3	2			
Distributor for construction sites – 3×16/3+2×16/5+1×32/5		2	1	3				1	3	2		1	1
Distributor for construction sites – 3×16/3+1×32/5			1	3		1			3			1	
Distributor for construction sites – 3×16/3+1×16/5		1		3	1				3	1			
Distributor for construction sites – 3×16/3+1×16/5+1×32/5		1	1	3			1		3	1		1	
Distributor for construction sites – 6×16/3+2×16/4	2			6		1			6		2		

Boxes with a circuit breaker and a safety device

Designed for infrequent switching and protection against short-circuit currents in three-phase alternating current circuits with a voltage of 400/230 V and a frequency of 50 Hz. A VR-32I switch-disconnector, three DP-33 fuse holders with a PPNI fuse are installed inside the enclosure. Cable input and output is provided from below.
The control handle of the VR-32I switch is brought out.

Advantages

- Outdoor installation.
- High level of electrical safety.
- Fully welded enclosure.
- Increased corrosion resistance.
- Certificate of conformity.

Specifications

Installation type	wall-mounted
Metal thickness, mm	1.0
Rated operating voltage, V	400
Degree of protection	IP54
Climatic modification	N1
Input of conductors	bottom
Color	RAL 7035 (gray)
Protection class	I
Type of grounding system	TN-S

Design features

An additional enclosure visor prevents the ingress of dirt and water when the door is opened.

The seal on the drive shaft of the switch-disconnector ensures the degree of protection IP54.
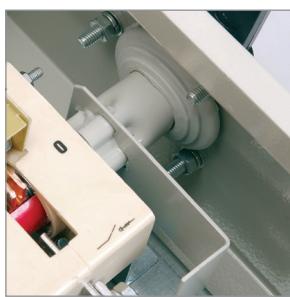
The door locking device provides a high level of electrical safety.

The airtight seal made of expanded polyurethane protects against moisture and dust penetration.

Explanation of designations

Box with switch and fuses-100A 74 N1 IP54

100A – rated currents of input and branch lines
7 – type of coating – PPK/shagreen
4 – paint color RAL 7035
N1 – climatic modification
IP54 – degree of protection

Assortment

Name	Overall dimensions, mm (H×W×D)	Rated current of input and output lines, A	Fuse link type	Weight, kg	Article
Box with switch and fuses-100A 74 N1 IP54	380×240×150	100	PPNI-33 size 00S	6.8	YARP-100-74-54
Box with switch and fuses-250A 74 N1 IP54	585×300×175	250	PPNI-35 size 1	12.1	YARP-250-74-54
Box with switch and fuses-400A 74 N1 IP54	665×325×190	400	PPNI-37 size 2	15.6	YARP-400-74-54

Metallic shells

iEK

GARANT series metal enclosures with mounting panel

GARANT series metal enclosures with mounting panel were specially designed for use in adverse weather and industrial conditions. The enclosures are used to assemble a variety of electrical panels: power, control, automation. They allow installation of both modular and conventional equipment.
Degree of protection IP65, climatic modification N1 (possibility of installation in the open air).
The GARANT series metal enclosures with mounting panel IP65 have a seal made of two-component sealant on the door and a dust and moisture-proof lock with protective fittings. The enclosures also have a protective visor and a protective groove to prevent the ingress of dirt and water when the door is opened. Due to the design features, the equipment is installed on mounting panels, which are adjustable in depth.
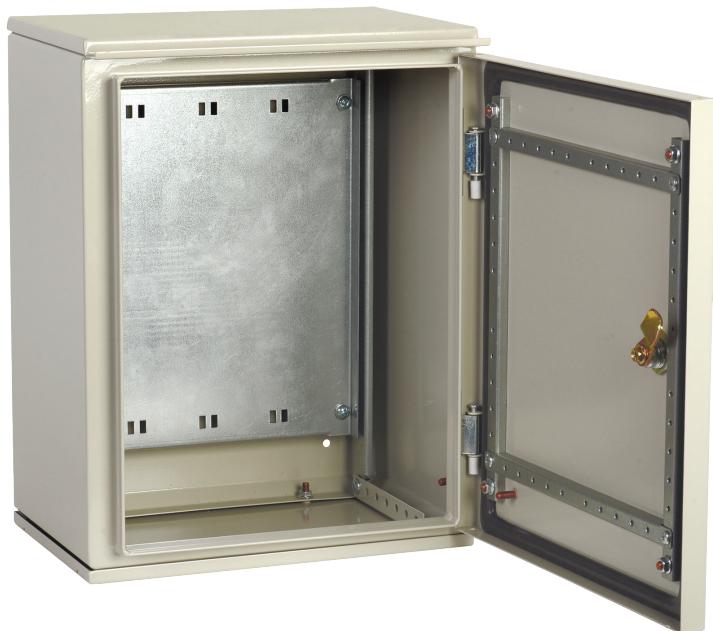
Advantages

- Enhanced protection against external influences and adverse factors (degree of protection IP65, climatic version N1).
- Depth adjustment of the mounting panel.
- Possibility of installing blanking plates.
- Profile for the installation of lighting equipment.
- A protective visor and protective channel prevent the ingress of dirt and water when the door is opened.
- Ease of installation due to the increased usable area of the mounting panel.
- Wide range of accessories.
- Dust and moisture proof lock.
- Removable top and bottom enclosure covers provide easy access to equipment during installation.
- High level of electrical safety.
- High quality coating.
- Increased corrosion resistance.
- Full set.
- One safety lock.

Specifications

Installation type	wall-mounted
Metal thickness	1.0 mm – for metal enclosures with mounting panel of the first 3 sizes; 1.4 mm – for metal enclosures with mounting panel above the 3rd size
Rated current	up to 630 A
Cover type	powder, shagreen
Color	RAL 7035
Degree of protection	IP65
Door opening angle	105°
Apparatus type	any
Climatic modification	N1

Design features

Technological visor – protection from dirt and water when opening the door.

Possibility of installing metal blanking plates (LG panels – front solid plates and LMA – front plates for modular automations) at different depths. Refers to accessories and must be ordered separately.

Profile for the installation of signaling equipment. High quality polyurethane foam seal around the door.

Perforations for the installation of cable ties.

Depth adjustment of the mounting panel due to the perforation of the corner enclosure welded to the bottom.

Reinforced hinges. Protective cap.

Dust and moisture-proof fittings for a lock with the possibility of sealing (included in the product) – ensuring the degree of protection IP65.

Forging around the perimeter of the doorway to strengthen the rigid structure.

Component parts

- Data sheet.
- Installation instructions.
- Electrical safety signs.
- Kit for enclosure grounding and mounting.
- Rubberized rings to ensure IP65 protection at the enclosure fixing points.

Explanation of designations

1 – enclosure size
0 – modification of the GARANT series
N1 – climatic modification
IP65 – degree of protection
GARANT – the name of the series

Color

RAL 7035

Metallic shells

TITAN

Assortment

	Name	Overall dimensions, mm (H×W×D)	Weight, kg	Article
	Metal enclosure with mounting panel-1-0 N1 IP65 GARANT	Enclosure: 395×310×220 Panel: 290×250. The total height of the panels LG/LMA – 350	9	YKM40-01-65
	Metal enclosure with mounting panel-2-0 N1 IP65 GARANT	Enclosure: 500×400×220 Panel: 394×340. The total height of the panels LG/LMA – 450	13	YKM40-02-65
	Metal enclosure with mounting panel-3-0 N1 IP65 GARANT	Enclosure: 650×500×220 Panel: 544×440. The total height of the panels LG/LMA – 600	19	YKM40-03-65
	Metal enclosure with mounting panel-4-0 N1 IP65 GARANT	Enclosure: 800×650×250 Panel: 685×590. The total height of the panels LG/LMA – 750	31.6	YKM40-04-65
	Metal enclosure with mounting panel-5-0 N1 IP65 GARANT	Enclosure: 1000×650×275 Panel: 885×590. The total height of the panels LG/LMA – 950	39	YKM40-05-65
	Metal enclosure with mounting panel-6-0 N1 IP65 GARANT	Enclosure: 1200×650×275 Panel: 1085×590. The total height of the panels LG/LMA – 1150	45.5	YKM40-06-65
	Metal enclosure with mounting panel-7-0 N1 IP65 GARANT	Enclosure: 1400×650×275 Panel: 1285×590. The total height of the panels LG/LMA – 1350	52	YKM40-07-65

Metallic shells

TITAN

Accessories for GARANT metal enclosures with mounting panel series*

LG panel	LMA panel	Mounting profile	Mounting panel	Mounting corner

Name	Purpose	Place of installation	Quantity of modules	Overall dimensions, mm	Color	Article
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=50 (set 2 pcs.)	For protection against direct contact with live parts	Inside the enclosure on the mounting profile		50×260×8,5	RAL 7035	Y-PL-G-36-1-0-50
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=150 (set 2 pcs.)				150×260×8,5	RAL 7035	Y-PL-G-36-1-0-150
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=200 (set 2 pcs.)				200×260×8,5	RAL 7035	Y-PL-G-36-1-0
LG panel for metal enclosure with mounting panel-2 36 PRO/GARANT H=150 (set 2 pcs.)				150×350×8,5	RAL 7035	Y-PL-G-36-2-0-150
LG panel for metal enclosure with mounting panel-2 36 PRO/GARANT H=300 (set 2 pcs.)				300×350×8,5	RAL 7035	Y-PL-G-36-2-0
LG panel for metal enclosure with mounting panel-3 36 PRO/GARANT H=150 (set 2 pcs.)				150×450×8,5	RAL 7035	Y-PL-G-36-3-0-150
LG panel for metal enclosure with mounting panel-3 36 PRO/GARANT H=450 (set 2 pcs.)				450×450×8,5	RAL 7035	Y-PL-G-36-3-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=50 (set 2 pcs.)	For protection against direct contact with live parts	Inside the enclosure on the mounting profile		50×600×8,5	RAL 7035	Y-PL-G-36-4567-1-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=150 (set 2 pcs.)				150×600×8,5	RAL 7035	Y-PL-G-36-4567-2-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=300 (set 2 pcs.)				300×600×8,5	RAL 7035	Y-PL-G-36-4567-3-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=400 (set 2 pcs.)				400×600×8,5	RAL 7035	Y-PL-G-36-4567-4-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=500 (set 2 pcs.)				500×600×8,5	RAL 7035	Y-PL-G-36-4567-5-0
LMA panel for metal enclosure with mounting panel-1 36 PRO/GARANT (set 2 pcs.)	For protection against direct contact with live parts	Inside the enclosure on the mounting profile	12	150×260×8,5	RAL 7035	Y-PL-O-36-5-0
LMA panel for metal enclosure with mounting panel-2 36 PRO/GARANT (set 2 pcs.)			17	150×350×8,5	RAL 7035	Y-PL-O-36-6-0
LMA panel for metal enclosure with mounting panel-3 36 PRO/GARANT (set 2 pcs.)			22	150×450×8,5	RAL 7035	Y-PL-O-36-3-0
LMA panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT (set 2 pcs.)			27	150×600×8,5	RAL 7035	Y-PL-O-36-4567-0
Mounting profile for metal enclosure with mounting panel-1 GARANT (set 2 pcs.)	For fastening LG and LMA panels and installation of a DIN-rail	Inside the enclosure on perforated angles welded to the bottom of the enclosure (adjustable in depth)		387×60×32	RAL 7035	Y-PM-U-G-1-0
Mounting profile for metal enclosure with mounting panel-2 GARANT (set 2 pcs.)				492×60×32	RAL 7035	Y-PM-U-G-2-0
Mounting profile for metal enclosure with mounting panel-3 GARANT (set 2 pcs.)				642×60×32	RAL 7035	Y-PM-U-G-3-0
Mounting profile for metal enclosure with mounting panel-4 GARANT (set 2 pcs.)				770×60×32	RAL 7035	Y-PM-U-G-4-0
Mounting profile for metal enclosure with mounting panel-5 GARANT (set 2 pcs.)				970×60×32	RAL 7035	Y-PM-U-G-5-0
Mounting profile for metal enclosure with mounting panel-6 GARANT (set 2 pcs.)				1170×60×32	RAL 7035	Y-PM-U-G-6-0
Mounting profile for metal enclosure with mounting panel-7 GARANT (set 2 pcs.)				1370×60×32	RAL 7035	Y-PM-U-G-7-0
mounting panel for metal enclosure with mounting panel-1 GARANT H=150 (set 2 pcs.)	For equipment installation	Inside the enclosure, on the mounting angle		150×250	galvanized	Y-PM-1-150
mounting panel for metal enclosure with mounting panel-2 GARANT H=150 (set 2 pcs.)				150×340	galvanized	Y-PM-2-150
mounting panel for metal enclosure with mounting panel-3 GARANT H=150 (set 2 pcs.)				150×440	galvanized	Y-PM-3-150
mounting panel for metal enclosure with mounting panel-4 (5,6,7) GARANT H=150 (set 2 pcs.)				150×590	galvanized	Y-PM-4567-150
Seat angle for metal enclosure with mounting panel-1 GARANT (set 2 pcs.)**	For fixing the mounting plate	Inside the enclosure on perforated angles welded to the bottom of the enclosure		387×28×23	galvanized	Y-UM-G-1-0
Seat angle for metal enclosure with mounting panel-2 GARANT (set 2 pcs.)**				492×28×23	galvanized	Y-UM-G-2-0
Seat angle for metal enclosure with mounting panel-3 GARANT (set 2 pcs.)**				642×28×23	galvanized	Y-UM-G-3-0
Seat angle for metal enclosure with mounting panel-4 GARANT (set 2 pcs.)**				770×30×23	galvanized	Y-UM-G-4-0
Seat angle for metal enclosure with mounting panel-5 GARANT (set 2 pcs.)**				970×30×23	galvanized	Y-UM-G-5-0
Seat angle for metal enclosure with mounting panel-6 GARANT (set 2 pcs.)**				1170×30×23	galvanized	Y-UM-G-6-0
Seat angle for metal enclosure with mounting panel-7 GARANT (set 2 pcs.)**				1370×30×23	galvanized	Y-UM-G-7-0

Metallic shells

TITAN

* Accessories must be ordered separately. The set of all accessories includes hardware for their installation.
** The mounting angle is included in the basic package of the enclosure. Can be ordered additionally as an accessory.

PRO series metal enclosures with mounting panel

PRO series metal enclosures with mounting panel are used to assemble a variety of electrical panels: power, control, automation. They allow installation of both modular and conventional equipment.

Welded metal enclosure with removable mounting panel. In IP54 version, climatic modification N1 (possibility of installation in the open air). IP 54 PRO series metal enclosures with mounting panel have a two-component sealant seal and a dust and moisture proof lock on the door. Also, IP54 enclosures have a protective cover and a protective channel to prevent the ingress of dirt and water when the door is opened. The enclosure door is locked with a padlock. The lock key has a single cylinder.

TITAN

Advantages

- Welded enclosure, fully welded seams.
- Possibility of installing blanking plates.
- Protective visor and protective groove in IP54 enclosures prevent the ingress of dirt and water when opening the door.
- Increased usable mounting area.
- Removable cable glands facilitate entry of conductors into the switchboard.
- Wide range of accessories.
- The visual difference between the PRO metal enclosures with mounting panel is the faceted angles.
- High level of electrical safety.
- High quality coating.
- Increased corrosion resistance.
- When installing dust and moisture-proof fittings with the possibility of sealing on the lock, the IP54 enclosure reaches the IP65 degree of protection.
- Full set.
- One safety lock.

Specifications

Installation type	wall-mounted
Metal thickness	1.0 mm – for metal enclosures with mounting panel of the first 3 sizes; 1.4 mm – for metal enclosures with mounting panel above the 3rd size
Rated current	up to 630 A
Cover type	powder, shagreen
Color	EPK RAL 7035 for IP31; PPK RAL 7035 for IP54
Degree of protection	IP31, IP54
Door opening angle	105°
Apparatus type	any
Climatic modification	NF3 for IP31, N1 for IP54

Design features

Welded enclosure, fully welded seams – complete tightness of the board.
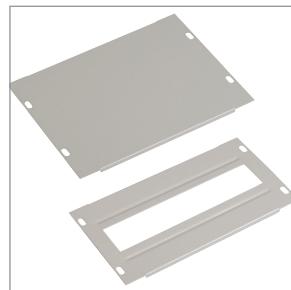
Possibility of installing metal blanking plates (LG panels – front solid plates and LMA – front plates for modular automations). Belong to accessories and must be ordered separately.

Protective visor and protective groove in IP54 enclosures – protection of electrical equipment from moisture penetration.
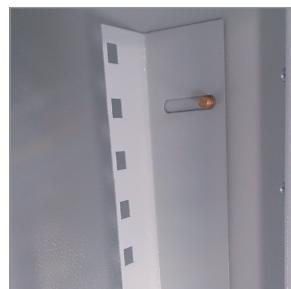
The angle allows you to adjust the installation depth of the LG and LMA panels.

The visual difference of the PRO metal enclosures with mounting panel is the faceted angles.

When installing dust and moisture-proof fittings with the possibility of sealing (article YZZ-22-33), the degree of protection IP65 is achieved.
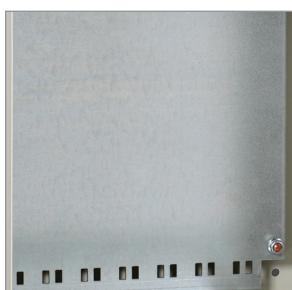
Increased usable area of the galvanized mounting panel, perforation for cable ties.

In IP54 version, polyurethane foam seal around the door perimeter.

Removable cable glands – easy access to equipment during installation.

3 hinges for reinforcement of the door of the PRO metal enclosure with mounting panel above size 3.
3 locks for a tighter fit of the door in the PRO metal enclosures with mounting panel above size 5.

Component parts

- Electrical safety signs.
- Kit for enclosure grounding and mounting.
- Rubberized rings for IP54 protection at the attachment points.

Color

RAL 7035

Metallic shells

TITAN

![IEK logo]

Explanation of designations

Metal enclosure with mounting panel-1-2 N1 IP54 PRO

1 – enclosure size
2 – PRO modification
N1 – climatic modification
IP54 – degree of protection
PRO – series name

Metal enclosure with mounting panel-1-2 36 NF3 IP31 PRO

1 – enclosure size
2 – PRO modification
3 – type of coating: EPR/shagreen
6 – paint color: RAL 7035
NF3 – climatic modification
IP31 – degree of protection
PRO – series name

Assortment

Metal enclosures with mounting panel IP31	Name	Specifications	Overall dimensions, mm (H×W×D)	Article
	Metal enclosure with mounting panel-1-2 36 NF3 IP31 PRO	Number of inputs: 1 hole 171×92 mm (bottom). Weight 6.6 kg. The total height of the panels LG/LMA – 350 mm	Enclosure: 395×310×220. Panel: 370×250×15	YKM42-01-31-P
	Metal enclosure with mounting panel-2-2 36 NF3 IP31 PRO	Number of inputs: 1 hole 171×92 mm (bottom). Weight 9.9 kg. The total height of the panels LG/LMA – 450 mm	Enclosure: 500×400×220. Panel: 475×340×15	YKM42-02-31-P
	Metal enclosure with mounting panel-3-2 36 NF3 IP31 PRO	Number of inputs: 2 holes 171×92 mm (bottom). Weight 14.4 kg. The total height of the panels LG/LMA – 600 mm	Enclosure: 650×500×220. Panel: 625×440×15	YKM42-03-31-P
	Metal enclosure with mounting panel-4-2 36 NF3 IP31 PRO	Number of inputs: 2 holes 171×92 mm (bottom). Weight 23 kg. The total height of the panels LG/LMA – 750 mm	Enclosure: 800×650×250. Panel: 775×585×15	YKM42-04-31-P
	Metal enclosure with mounting panel-5-2 36 NF3 IP31 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 29.7 kg. The total height of the panels LG/LMA – 950 mm	Enclosure: 1000×650×285. Panel: 975×585×15	YKM42-05-31-P
	Metal enclosure with mounting panel-6-2 36 NF3 IP31 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 38 kg. The total height of the panels LG/LMA – 1150 mm	Enclosure: 1200×650×285. Panel: 1175×585×15	YKM42-06-31-P

	Name	Specifications	Overall dimensions, mm (H×W×D)	Article
	Metal enclosure with mounting panel-7-2 36 NF3 IP31 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 44 kg. The total height of the panels LG/LMA – 1350 mm	Enclosure: 1400×650×285. Panel: 1375×585×15	YKM42-07-31-P
Metal enclosures with mounting panel IP54	Metal enclosure with mounting panel-1-2 N1 IP54 PRO	Number of inputs: 1 hole 171×92 mm (bottom). Weight 7 kg. The total height of the panels LG/LMA – 350 mm	Enclosure: 395×310×225/232*. Panel: 370×250×15	YKM42-01-54-P
	Metal enclosure with mounting panel-2-2 N1 IP54 PRO	Number of inputs: 1 hole 171×92 mm (bottom). Weight 10.4 kg. The total height of the panels LG/LMA – 450 mm	Enclosure: 500×400×225/232*. Panel: 475×340×15	YKM42-02-54-P
	Metal enclosure with mounting panel-3-2 N1 IP54 PRO	Number of inputs: 2 holes 171×92 mm (bottom). Weight 15 kg. The total height of the panels LG/LMA – 600 mm	Enclosure: 650×500×225/232*. Panel: 625×440×15	YKM42-03-54-P
	Metal enclosure with mounting panel-4-2 N1 IP54 PRO	Number of inputs: 2 holes 171×92 mm (bottom). Weight 26 kg. The total height of the panels LG/LMA – 750 mm	Enclosure: 800×650×251/258*. Panel: 775×585×15	YKM42-04-54-P
	Metal enclosure with mounting panel-5-2 N1 IP54 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 35 kg. The total height of the panels LG/LMA – 950 mm	Enclosure: 1000×650×286/293*. Panel: 975×585×15	YKM42-05-54-P
	Metal enclosure with mounting panel-6-2 N1 IP54 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 41 kg. The total height of the panels LG/LMA – 1150 mm	Enclosure: 1200×650×286/293 Panel: 1175×585×15	YKM42-06-54-P
	Metal enclosure with mounting panel-7-2 N1 IP54 PRO	Number of inputs: 3 holes 171×92 mm (bottom). Weight 47 kg. The total height of the panels LG/LMA – 1350 mm	Enclosure: 1400×650×286/293*. Panel: 1375×585×15	YKM42-07-54-P

*   The depth of the enclosure, including the visor.

Accessories for PRO metal enclosures with mounting panel*

LG panel

LMA panel

Front panel angle

Name	Purpose	Place of installation	Quantity of modules	Overall dimensions, mm	Color	Article
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=50 (set 2 pcs.)	For protection against direct contact with live parts	Inside the enclosure on the angles of the front panel		50×260×8,5	RAL 7035	Y-PL-G-36-1-0-50
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=150 (set 2 pcs.)				150×260×8,5	RAL 7035	Y-PL-G-36-1-0-150
LG panel for metal enclosure with mounting panel-1 36 PRO/GARANT H=200 (set 2 pcs.)				200×260×8,5	RAL 7035	Y-PL-G-36-1-0
LG panel for metal enclosure with mounting panel-2 36 PRO/GARANT H=150 (set 2 pcs.)				150×350×8,5	RAL 7035	Y-PL-G-36-2-0-150
LG panel for metal enclosure with mounting panel-2 36 PRO/GARANT H=300 (set 2 pcs.)				300×350×8,5	RAL 7035	Y-PL-G-36-2-0
LG panel for metal enclosure with mounting panel-3 36 PRO/GARANT H=150 (set 2 pcs.)				150×450×8,5	RAL 7035	Y-PL-G-36-3-0-150
LG panel for metal enclosure with mounting panel-3 36 PRO/GARANT H=450 (set 2 pcs.)				450×450×8,5	RAL 7035	Y-PL-G-36-3-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=50 (set 2 pcs.)				50×600×8,5	RAL 7035	Y-PL-G-36-4567-1-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=150 (set 2 pcs.)				150×600×8,5	RAL 7035	Y-PL-G-36-4567-2-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=300 (set 2 pcs.)				300×600×8,5	RAL 7035	Y-PL-G-36-4567-3-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=400 (set 2 pcs.)				400×600×8,5	RAL 7035	Y-PL-G-36-4567-4-0
LG panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT H=500 (set 2 pcs.)				500×600×8,5	RAL 7035	Y-PL-G-36-4567-5-0
LMA panel for metal enclosure with mounting panel-1 36 PRO/GARANT (set 2 pcs.)	For protection against direct contact with live parts	Inside the enclosure on the angles of the front panel	12	150×260×8,5	RAL 7035	Y-PL-O-36-5-0
LMA panel for metal enclosure with mounting panel-2 36 PRO/GARANT (set 2 pcs.)			17	150×350×8,5	RAL 7035	Y-PL-O-36-6-0
LMA panel for metal enclosure with mounting panel-3 36 PRO/GARANT (set 2 pcs.)			22	150×450×8,5	RAL 7035	Y-PL-O-36-3-0
LMA panel for metal enclosure with mounting panel-4 (5, 6, 7) 36 PRO/GARANT (set 2 pcs.)			27	150×600×8,5	RAL 7035	Y-PL-O-36-4567-0
Angle of the front panel of the metal enclosure with mounting panel-1 PRO (set 2 pcs.)	For fixing the LG and LMA panels (with the ability to adjust the LG and LMA panels in depth)	Studs inside the enclosure		324×49×36	galvanized	Y-PL-U-1-0
Angle of the front panel of the metal enclosure with mounting panel-2 PRO (set 2 pcs.)				424×49×36	galvanized	Y-PL-U-2-0
Angle of the front panel of the metal enclosure with mounting panel-3 PRO (set 2 pcs.)				574×49×36	galvanized	Y-PL-U-3-0
Angle of the front panel of the metal enclosure with mounting panel-4 PRO (set 2 pcs.)				724×49×36	galvanized	Y-PL-U-4-0
Angle of the front panel of the metal enclosure with mounting panel-5 PRO (set 2 pcs.)				924×49×36	galvanized	Y-PL-U-5-0
Angle of the front panel of the metal enclosure with mounting panel-6 PRO (set 2 pcs.)				1124×49×36	galvanized	Y-PL-U-6-0
Angles of the front panel of the metal enclosure with mounting panel-7 PRO (set 2 pcs.)				1324×49×36	galvanized	Y-PL-U-7-0

Metallic shells

TITAN

* Accessories must be ordered separately. The set of all accessories includes hardware for their installation.

TITAN
Metal enclosures with mounting panel

Used to assemble a variety of electrical panels: power, control, automation. They allow installation of both modular and conventional equipment.

Welded metal enclosure with removable galvanized mounting panel. The enclosure door is locked with a padlock. The lock key has a single cylinder. IP 54 metal enclosures with mounting panel have a two-component sealant seal and a dust and moisture proof lock on the door.

TITAN

Advantages

- Increased corrosion resistance.
- High quality coating.
- One safety lock.
- Set of accessories.
- High manufacturability and ease of assembly.
- Ease of installation.
- Several colors of painting.
- High level of electrical safety.
- Certificate of conformity.

Specifications

Installation type	wall-mounting, flush-mounting
Metal thickness	1.0-1.4 mm (depending on size)
Rated current	up to 630 A
Cover type	powder, shagreen
Color	EPK RAL 7035 – for IP31, PPK RAL 7035 – for IP54
Degree of protection	IP31, IP54
Door opening angle	105°
Apparatus type	any
Climatic modification	NF3 for IP31, N2 for IP54

Explanation of designations

Metal enclosure with mounting panel-1-0 36 NF3 IP31

1 – enclosure size (H×W)
0 – modification
3 – type of coating
    3 – EPR/shagreen
6 – paint color
    6 – RAL 7035
NF3 – climatic modification
IP 31 – degree of protection

Metal enclosure with mounting panel-2.3.1-0 36 NF3 IP31

2.3.1. – dimensions H∍W∍D, mm
Height – **2** – 250 mm
    3 – 300 mm
    4 – 400 mm
    6 – 600 mm
    16 – 1600 mm (excl. base – 100 mm)
    18 – 1800 mm (excl. base – 100 mm)
Width – **2** – 210 mm
    3 – 300 mm
    4 – 400 mm
    6 – 600 mm
    8 – 800 mm
Depth – **1** – 150 mm
    2 – 250 mm
    4 – 400 mm
0 – modification number
3 – type of coating
    3 – EPR/shagreen
6 – paint color
    6 – RAL 7035
NF3 – climatic modification
IP31 – degree of protection

Design features

In the IP54 version, the multi-faceted protective channel of the enclosure prevents the ingress of dirt and water when the door is opened.

In IP54 version, the seal is made of polyurethane foam.

Removable rear wall in sizes 16 (18).6.4 and 16(18).8.4 greatly simplifies maintenance and installation of electrical equipment.

Feet on the rear wall in sizes 16(18).6.4 and 16(18).8.4 simplify its installation and increase the safety of cabinet maintenance.

Robotic welding.
Continuous welding of seams is a guarantee of stable quality and high competitiveness of the product.
7 basic sizes of wall-mounted metal enclosures with mounting panel IP54.

Assortment

Metal enclosures with mounting panel (IP31)

	Name	Specifications	Article
	Metal enclosure with mounting panel-1-1 36 NF3 IP31	Enclosure, mm 395×310×150. Panel, mm: 330×250. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 5.2 kg	YKM41-01-31
	Metal enclosure with mounting panel-2-1 36 NF3 IP31	Enclosure, mm 500×400×150. Panel, mm: 430×340. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 8.0 kg	YKM41-02-31
	Metal enclosure with mounting panel-3-1 36 NF3 IP31	Enclosure, mm 650×500×150. Panel, mm: 580×440. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 12.2 kg	YKM41-03-31
	Metal enclosure with mounting panel-1-0 36 NF3 IP31	Enclosure, mm 395×310×220. Panel, mm: 330×250. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 6.0 kg	YKM40-01-31
	Metal enclosure with mounting panel-2-0 36 NF3 IP31	Enclosure, mm 500×400×220. Panel, mm: 430×340. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 9.0 kg	YKM40-02-31
	Metal enclosure with mounting panel-3-0 36 NF3 IP31	Enclosure, mm 650×500×220. Panel, mm: 580×440. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 13.5 kg	YKM40-03-31
	Metal enclosure with mounting panel-4-0 36 NF3 IP31	Enclosure, mm 800×650×250. Panel, mm: 730×585. Number of inputs: 4 holes ⌀31 mm (bottom). Weight: 20.9 kg	YKM40-04-31
	Metal enclosure with mounting panel-5-0 36 NF3 IP31	Enclosure, mm 1000×650×300. Panel, mm: 930×585. Number of inputs: 5 holes ⌀31 mm (bottom). Weight: 26.8 kg	YKM40-05-31
	Metal enclosure with mounting panel-6-0 36 NF3 IP31	Enclosure, mm 1200×750×300. Panel, mm: 1130×685. Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 42.0 kg	YKM40-06-31

Metallic shells

TITAN

	Name	Specifications	Article
	Metal enclosure with mounting panel-7-0 36 NF3 IP31	Enclosure, mm 1320×750×300. Panel, mm: 1250×690. Number of inputs: 7 holes ⌀31 mm (bottom). Weight: 45.8 kg	YKM40-07-31
	Metal enclosure with mounting panel-2.3.1-0 36 NF3 IP31	Enclosure, mm 250×300×150. Panel, mm: 180×230. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 3.0 kg	YKM40-231-31
	Metal enclosure with mounting panel-3.2.1-0 36 NF3 IP31	Enclosure, mm 300×210×150. Panel, mm: 230×140. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 2.7 kg	YKM40-321-31
	Metal enclosure with mounting panel-4.2.1-0 36 NF3 IP31	Enclosure, mm 400×210×150. Panel, mm: 330×140. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 3.4 kg	YKM40-421-31
	Metal enclosure with mounting panel-4.4.1-0 36 NF3 IP31	Enclosure, mm 400×400×150. Panel, mm: 330×330. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 6.6 kg	YKM40-441-31
	Metal enclosure with mounting panel-4.4.2-0 36 NF3 IP31	Enclosure, mm 400×400×250. Panel, mm: 330×330. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 7.9 kg	YKM40-442-31
	Metal enclosure with mounting panel-4.6.1-0 36 NF3 IP31	Enclosure, mm 400×600×150. Panel, mm: 330×530. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 9.4 kg	YKM40-461-31
	Metal enclosure with mounting panel-4.6.2-0 36 NF3 IP31	Enclosure, mm 400×600×250. Panel, mm: 330×530. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 11.0 kg	YKM40-462-31
	Metal enclosure with mounting panel-6.6.1-0 36 NF3 IP31	Enclosure, mm 600×600×150. Panel, mm: 530×530. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 13.3 kg	YKM40-661-31
	Metal enclosure with mounting panel-6.6.2-0 36 NF3 IP31	Enclosure, mm 600×600×250. Panel, mm: 530×530. Number of inputs: 3 holes ⌀31 mm (bottom). Weight: 15.3 kg	YKM40-662-31

Metallic shells

TITAN

	Name	Specifications	Article
	Metal enclosure with mounting panel-16.6.4-0 36 NF3* IP31	Enclosure, mm 1600×600×400. Base, mm: 100×600×400. Number of inputs: 1 holes 404×178 mm (bottom). Weight: 55.4 kg	YKM40-1664-31
	Metal enclosure with mounting panel-18.6.4-0 36 NF3* IP31	Enclosure, mm 1800×600×400. Base, mm: 100×600×400. Number of inputs: 1 holes 404×178 mm (bottom). Weight: 58.5 kg	YKM40-1864-31
	Metal enclosure with mounting panel-16.8.4-0 36 NF3* IP31	Enclosure, mm 1600×800×400. Base, mm: 100×800×400. Number of inputs: 1 holes 604×178 mm (bottom). Weight: 66.2 kg	YKM40-1684-31
	Metal enclosure with mounting panel-18.8.4-0 36 NF3* IP31	Enclosure, mm 1800×800×400. Base, mm: 100×800×400. Number of inputs: 1 holes 604×178 mm (bottom). Weight: 69.7 kg	YKM40-1884-31
Metal enclosures with mounting panel (IP54)	Metal enclosure with mounting panel-1-0 N2 IP54	Enclosure, mm 395×310×220. Panel, mm: 330×250. Number of inputs: 11 holes ⌀31 mm (bottom). Weight: 6.5 kg. Robotic welding	YKM40-01-54
	Metal enclosure with mounting panel-2-0 N2 IP54	Enclosure, mm 500×400×220. Panel, mm: 430×340. Number of inputs: 11 holes ⌀31 mm (bottom). Weight: 9.5 kg. Robotic welding	YKM40-02-54
	Metal enclosure with mounting panel-3-0 N2 IP54	Enclosure, mm 650×500×220. Panel, mm: 580×440. Number of inputs: 13 holes ⌀31 mm (bottom). Weight: 13.9 kg. Robotic welding	YKM40-03-54
	Metal enclosure with mounting panel-4-0 N2 IP54	Enclosure, mm 800×650×250. Panel, mm: 730×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 27.8 kg. Robotic welding	YKM40-04-54
	Metal enclosure with mounting panel-5-0 N2 IP54	Enclosure, mm 1000×650×285. Panel, mm: 930×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 34.8 kg. Robotic welding	YKM40-05-54

Metallic shells

TITAN

* The mounting panel, vertical corners for its installation and other accessories must be ordered separately.

Name	Specifications	Article
Metal enclosure with mounting panel-6-0 N2 IP54	Enclosure, mm 1200×750×300. Panel, mm: 1130×685. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 46.2 kg. Robotic welding	YKM40-06-54
Metal enclosure with mounting panel-7-0 N2 IP54	Enclosure, mm 1400×650×285. Panel, mm: 1330×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 46.6 kg. Robotic welding	YKM40-07-54
Metal enclosure with mounting panel-2.3.1-0 N2 IP54	Enclosure, mm 250×300×150. Panel, mm: 180×230. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 3.9 kg	YKM40-231-54
Metal enclosure with mounting panel-3.2.1-0 N2 IP54	Enclosure, mm 300×210×150. Panel, mm: 230×140. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 3.4 kg	YKM40-321-54
Metal enclosure with mounting panel-4.2.1-0 N2 IP54	Enclosure, mm 400×210×150. Panel, mm: 330×140. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 4,3 kg	YKM40-421-54
Metal enclosure with mounting panel-4.4.1-0 N2 IP54	Enclosure, mm 400×400×150. Panel, mm: 330×330. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 8.7 kg	YKM40-441-54
Metal enclosure with mounting panel-4.4.2-0 N2 IP54	Enclosure, mm 400×400×250. Panel, mm: 330×330. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 10.6 kg	YKM40-442-54
Metal enclosure with mounting panel-4.6.1-0 N2 IP54	Enclosure, mm 400×600×150. Panel, mm: 330×530. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 12.2 kg	YKM40-461-54
Metal enclosure with mounting panel-4.6.2-0 N2 IP54	Enclosure, mm 400×600×250. Panel, mm: 330×530. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 14.5 kg	YKM40-462-54
Metal enclosure with mounting panel-6.6.1-0 N2 IP54	Enclosure, mm 600×600×150. Panel, mm: 530×530. Number of inputs: 6 holes ∅31 mm (bottom). Weight: 17.2 kg	YKM40-661-54

Metallic shells

TITAN

	Name	Specifications	Article
	Metal enclosure with mounting panel-6.6.2-0 N2 IP54	Enclosure, mm 600×600×250. Panel, mm: 530×530. Number of inputs: 6 holes ⌀31 mm (bottom). Weight: 19.9 kg	YKM40-662-54
	Metal enclosure with mounting panel-16.6.4-0 N2* IP54	Enclosure, mm 1600×600×400. Base, mm: 100×600×400. Number of inputs: 1 holes 404×178 mm (bottom). Weight: 55.4 kg	YKM40-1664-54
	Metal enclosure with mounting panel-18.6.4-0 N2* IP54	Enclosure, mm 1800×600×400. Base, mm: 100×600×400. Number of inputs: 1 holes 404×178 mm (bottom). Weight: 58.5 kg	YKM40-1864-54
	Metal enclosure with mounting panel-16.8.4-0 N2* IP54	Enclosure, mm 1600×800×400. Base, mm: 100×800×400. Number of inputs: 1 holes 604×178 mm (bottom). Weight: 66.2 kg	YKM40-1684-54
	Metal enclosure with mounting panel-18.8.4-0 N2* IP54	Enclosure, mm 1800×800×400. Base, mm: 100×800×400. Number of inputs: 1 holes 604×178 mm (bottom). Weight: 69.7 kg	YKM40-1884-54

Accessories for metal enclosures with mounting panel-XX.X.4 IPXX

Name	Purpose	Installation place	Overall dimensions, mm	Completeness unit of measurement	pcs.	Article
Vertical angle 1560 (galv.) for metal enclosure with mounting panel-16-X.X	Used for fastening mounting panels, PN panels and strips (to provide the possibility of adjusting the position of elements in the depth of the enclosure)	Inside the enclosure on Z-profiles	1560×35×30	set	2	YKM40-U-1560X
Vertical angle 1760 (galv.) for metal enclosure with mounting panel-18-X.X		Inside the enclosure on Z-profiles	1760×35×30	set	2	YKM40-U-1760X
Mounting panel 300×545 (galvanized) for metal enclosure with mounting panel-16.6.4**	Designed for the installation of various electrical equipment	Inside the enclosure, on vertical angles (to provide the possibility of adjusting the position of the elements in the depth of the enclosure)	300×545	set	1	YKM40-PM-300X545
Mounting panel 300×745 (galvanized) for metal enclosure with mounting panel-16.8.4**			300×745	set	1	YKM40-PM-300X745
Mounting panel 500×545 (galvanized) for metal enclosure with mounting panel-16.6.4**			500×545	set	1	YKM40-PM-500X545
Mounting panel 500×745 (galvanized) for metal enclosure with mounting panel-16.8.4**			500×745	set	1	YKM40-PM-500X745
PN panel (galvanized) for metal enclosure with mounting panel-16.6.4**	Designed for installation of fuses	Inside the enclosure, on vertical angles (to provide the possibility of adjusting the position of the elements in the depth of the enclosure)	140×545	set	3	YKM40-PN-1664
PN panel (galvanized) for metal enclosure with mounting panel-16.8.4**			140×745	set	3	YKM40-PN-1684
Bar 30×545 (galvanized) for metal enclosure with mounting panel-16.6.4**	Used for the installation of single electrical devices or several devices with the same mounting height overall		30×545	set	2	YKM40-P-30X545
Bar 30×745 (galvanized) for metal enclosure with mounting panel-16.8.4**			30×745	set	2	YKM40-P-30X745

* Accessories must be ordered separately. The set of all accessories includes hardware for their installation.
** Compatible with metal enclosure with mounting panel-18.X.X.

Metallic shells

TITAN

TITAN
Metal enclosures with mounting panel

TITAN metal enclosures with mounting panel are a new technological product manufactured on modern automated European equipment.

They are designed to ensure reliable protection of equipment in power distribution systems and automation of technological processes, as well as for placement and protection of various electrical and electronic components from environmental influences.

The TITAN metal enclosures with mounting panel are manufactured in Russia from high quality materials in accordance with the most modern requirements.

The unique design of the enclosure is reliable in operation.

Advantages

- Impact resistance IK10.
- Increased corrosion resistance – TITAN 7 enclosures are primed and then painted.
- Seismic and vibration resistance.
- High manufacturability and ease of assembly.
- Convenience of installation.
- High electrical safety.
- Certificate of conformity.

Specifications

Installation type	wall-mounted
Rated current	up to 630 A
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Door opening angle	105°
Apparatus type	any

Explanation of the article

TI7-10-N-060-050-020-66

TI7 – TITAN 7 series designation
1 – number indicating the standard version,
  1 – metal enclosure with mounting panel
0 – modification designation,
  0 – no modification (standard product)
N – mounting type,
  N – wall mounting
060 – height, cm (060 – 60 cm)
050 – width, cm (050 – 50 cm)
020 – depth, cm (020 – 20 cm)
66 – IP rating

Explanation of designations

Metal enclosure with mounting panel-60.50.20 NF3 IP31

60 – height, cm
50 – width, cm
20 – depth, cm
NF3 – climatic version
IP31 – IP rating

Assortment

TITAN 3 metal enclosures with mounting panel

Name	Overall dimensions, mm			Article
	height	width	depth	
TITAN 3 Metal enclosure with mounting panel-30.30.20 NF3 IP31	300	300	200	TI3-10-N-030-030-020-31
TITAN 3 Metal enclosure with mounting panel-40.30.15 NF3 IP31	400	300	150	TI3-10-N-040-030-015-31
TITAN 3 Metal enclosure with mounting panel-40.30.20 NF3 IP31	400	300	200	TI3-10-N-040-030-020-31
TITAN 3 Metal enclosure with mounting panel-40.40.15 NF3 IP31	400	400	150	TI3-10-N-040-040-015-31
TITAN 3 Metal enclosure with mounting panel-40.40.20 NF3 IP31	400	400	200	TI3-10-N-040-040-020-31
TITAN 3 Metal enclosure with mounting panel-40.40.25 NF3 IP31	400	400	250	TI3-10-N-040-040-025-31
TITAN 3 Metal enclosure with mounting panel-40.60.15 NF3 IP31	400	600	150	TI3-10-N-040-060-015-31
TITAN 3 Metal enclosure with mounting panel-40.60.25 NF3 IP31	400	600	250	TI3-10-N-040-060-025-31
TITAN 3 Metal enclosure with mounting panel-50.40.15 NF3 IP31	500	400	150	TI3-10-N-050-040-015-31
TITAN 3 Metal enclosure with mounting panel-50.40.20 NF3 IP31	500	400	200	TI3-10-N-050-040-020-31
TITAN 3 Metal enclosure with mounting panel-50.40.25 NF3 IP31	500	400	250	TI3-10-N-050-040-025-31
TITAN 3 Metal enclosure with mounting panel-60.50.15 NF3 IP31	600	500	150	TI3-10-N-060-050-015-31
TITAN 3 Metal enclosure with mounting panel-60.50.20 NF3 IP31	600	500	200	TI3-10-N-060-050-020-31
TITAN 3 Metal enclosure with mounting panel-60.50.25 NF3 IP31	600	500	250	TI3-10-N-060-050-025-31
TITAN 3 Metal enclosure with mounting panel-70.50.20 NF3 IP31	700	500	200	TI3-10-N-070-050-020-31
TITAN 3 Metal enclosure with mounting panel-80.60.25 NF3 IP31	800	600	250	TI3-10-N-080-060-025-31
TITAN 3 Metal enclosure with mounting panel-80.60.30 NF3 IP31	800	600	300	TI3-10-N-080-060-030-31
TITAN 3 Metal enclosure with mounting panel-100.60.30 NF3 IP31	1000	600	300	TI3-10-N-100-060-030-31
TITAN 3 Metal enclosure with mounting panel-100.80.30 NF3 IP31	1000	800	300	TI3-10-N-100-080-030-31
TITAN 3 Metal enclosure with mounting panel-120.60.30 NF3 IP31	1200	600	300	TI3-10-N-120-060-030-31
TITAN 3 Metal enclosure with mounting panel-120.80.30 NF3 IP31	1200	800	300	TI3-10-N-120-080-030-31
TITAN 3 Metal enclosure with mounting panel-140.60.30 NF3 IP31	1400	600	300	TI3-10-N-140-060-030-31
TITAN 3 Metal enclosure with mounting panel-30.30.20 N2 IP54	300	300	200	TI3-10-N-030-030-020-54

Metallic shells

TITAN

Name	Overall dimensions, mm			Article
	height	width	depth	
TITAN 3 Metal enclosure with mounting panel-40.30.15 N2 IP54	400	300	150	TI3-10-N-040-030-015-54
TITAN 3 Metal enclosure with mounting panel-40.30.20 N2 IP54	400	300	200	TI3-10-N-040-030-020-54
TITAN 3 Metal enclosure with mounting panel-40.40.15 N2 IP54	400	400	150	TI3-10-N-040-040-015-54
TITAN 3 Metal enclosure with mounting panel-40.40.20 N2 IP54	400	400	200	TI3-10-N-040-040-020-54
TITAN 3 Metal enclosure with mounting panel-40.40.25 N2 IP54	400	400	250	TI3-10-N-040-040-025-54
TITAN 3 Metal enclosure with mounting panel-40.60.15 N2 IP54	400	600	150	TI3-10-N-040-060-015-54
TITAN 3 Metal enclosure with mounting panel-40.60.25 N2 IP54	400	600	250	TI3-10-N-040-060-025-54
TITAN 3 Metal enclosure with mounting panel-50.40.15 N2 IP54	500	400	150	TI3-10-N-050-040-015-54
TITAN 3 Metal enclosure with mounting panel-50.40.20 N2 IP54	500	400	200	TI3-10-N-050-040-020-54
TITAN 3 Metal enclosure with mounting panel-50.40.25 N2 IP54	500	400	250	TI3-10-N-050-040-025-54
TITAN 3 Metal enclosure with mounting panel-60.50.15 N2 IP54	600	500	150	TI3-10-N-060-050-015-54
TITAN 3 Metal enclosure with mounting panel-60.50.20 N2 IP54	600	500	200	TI3-10-N-060-050-020-54
TITAN 3 Metal enclosure with mounting panel-60.50.25 N2 IP54	600	500	250	TI3-10-N-060-050-025-54
TITAN 3 Metal enclosure with mounting panel-70.50.20 N2 IP54	700	500	200	TI3-10-N-070-050-020-54
TITAN 3 Metal enclosure with mounting panel-80.60.25 N2 IP54	800	600	250	TI3-10-N-080-060-025-54
TITAN 3 Metal enclosure with mounting panel-80.60.30 N2 IP54	800	600	300	TI3-10-N-080-060-030-54
TITAN 3 Metal enclosure with mounting panel-100.60.30 N2 IP54	1000	600	300	TI3-10-N-100-060-030-54
TITAN 3 Metal enclosure with mounting panel-100.80.30 N2 IP54	1000	800	300	TI3-10-N-100-080-030-54
TITAN 3 Metal enclosure with mounting panel-120.60.30 N2 IP54	1200	600	300	TI3-10-N-120-060-030-54
TITAN 3 Metal enclosure with mounting panel-120.80.30 N2 IP54	1200	800	300	TI3-10-N-120-080-030-54
TITAN 3 Metal enclosure with mounting panel-140.60.30 N2 IP54	1400	600	300	TI3-10-N-140-060-030-54
TITAN 5 Metal enclosure with mounting panel-100.60.30 N1 IP55	250	300	150	TI5-10-N-100-060-030-55
TITAN 5 Metal enclosure with mounting panel-100.80.30 N1 IP55	300	200	150	TI5-10-N-100-080-030-55
TITAN 5 Metal enclosure with mounting panel-100.80.40 N1 IP55	300	250	150	TI5-10-N-100-080-040-55
TITAN 5 Metal enclosure with mounting panel-120.60.30 N1 IP55	300	300	200	TI5-10-N-120-060-030-55
TITAN 5 Metal enclosure with mounting panel-120.60.40 N1 IP55	400	300	150	TI5-10-N-120-060-040-55
TITAN 5 Metal enclosure with mounting panel-120.80.30 N1 IP55	400	300	200	TI5-10-N-120-080-030-55
TITAN 5 Metal enclosure with mounting panel-120.80.40 N1 IP55	400	400	150	TI5-10-N-120-080-040-55
TITAN 5 Metal enclosure with mounting panel-140.60.30 N1 IP55	400	400	200	TI5-10-N-140-060-030-55
TITAN 5 Metal enclosure with mounting panel-25.30.15 N1 IP55	400	400	250	TI5-10-N-025-030-015-55
TITAN 5 Metal enclosure with mounting panel-30.20.15 N1 IP55	400	600	150	TI5-10-N-030-020-015-55
TITAN 5 Metal enclosure with mounting panel-30.25.15 N1 IP55	400	600	250	TI5-10-N-030-025-015-55
TITAN 5 Metal enclosure with mounting panel-30.30.20 N1 IP55	500	400	150	TI5-10-N-030-030-020-55
TITAN 5 Metal enclosure with mounting panel-40.30.15 N1 IP55	500	400	200	TI5-10-N-040-030-015-55
TITAN 5 Metal enclosure with mounting panel-40.30.20 N1 IP55	500	400	250	TI5-10-N-040-030-020-55
TITAN 5 Metal enclosure with mounting panel-40.40.15 N1 IP55	600	400	400	TI5-10-N-040-040-015-55
TITAN 5 Metal enclosure with mounting panel-40.40.20 N1 IP55	600	500	150	TI5-10-N-040-040-020-55
TITAN 5 Metal enclosure with mounting panel-40.40.25 N1 IP55	600	500	200	TI5-10-N-040-040-025-55
TITAN 5 Metal enclosure with mounting panel-40.60.15 N1 IP55	600	500	250	TI5-10-N-040-060-015-55
TITAN 5 Metal enclosure with mounting panel-40.60.25 N1 IP55	600	600	400	TI5-10-N-040-060-025-55
TITAN 5 Metal enclosure with mounting panel-50.40.15 N1 IP55	700	500	200	TI5-10-N-050-040-015-55
TITAN 5 Metal enclosure with mounting panel-50.40.20 N1 IP55	800	600	250	TI5-10-N-050-040-020-55
TITAN 5 Metal enclosure with mounting panel-50.40.25 N1 IP55	800	600	300	TI5-10-N-050-040-025-55
TITAN 5 Metal enclosure with mounting panel-60.40.40 N1 IP55	800	600	400	TI5-10-N-060-040-040-55
TITAN 5 Metal enclosure with mounting panel-60.50.15 N1 IP55	800	800	400	TI5-10-N-060-050-015-55
TITAN 5 Metal enclosure with mounting panel-60.50.20 N1 IP55	1000	600	300	TI5-10-N-060-050-020-55
TITAN 5 Metal enclosure with mounting panel-60.50.25 N1 IP55	1000	800	300	TI5-10-N-060-050-025-55
TITAN 5 Metal enclosure with mounting panel-60.60.40 N1 IP55	1000	800	400	TI5-10-N-060-060-040-55

TITAN 5 metal enclosures with mounting panel

Name	Overall dimensions, mm			Article
	height	width	depth	
TITAN 5 Metal enclosure with mounting panel-70.50.20 N1 IP55	1200	600	300	TI5-10-N-070-050-020-55
TITAN 5 Metal enclosure with mounting panel-80.60.25 N1 IP55	1200	600	400	TI5-10-N-080-060-025-55
TITAN 5 Metal enclosure with mounting panel-80.60.30 N1 IP55	1200	800	300	TI5-10-N-080-060-030-55
TITAN 5 Metal enclosure with mounting panel-80.60.40 N1 IP55	1200	800	400	TI5-10-N-080-060-040-55
TITAN 5 Metal enclosure with mounting panel-80.80.40 N1 IP55	1400	600	300	TI5-10-N-080-080-040-55
TITAN 7 Metal enclosure with mounting panel-25.30.15 NF1 IP66	250	300	150	TI7-10-N-025-030-015-66
TITAN 7 Metal enclosure with mounting panel-30.20.15 NF1 IP66	300	200	150	TI7-10-N-030-020-015-66
TITAN 7 Metal enclosure with mounting panel-30.25.15 NF1 IP66	300	250	150	TI7-10-N-030-025-015-66
TITAN 7 Metal enclosure with mounting panel-30.30.20 NF1 IP66	300	300	200	TI7-10-N-030-030-020-66
TITAN 7 Metal enclosure with mounting panel-40.30.15 NF1 IP66	400	300	150	TI7-10-N-040-030-015-66
TITAN 7 Metal enclosure with mounting panel-40.30.20 NF1 IP66	400	300	200	TI7-10-N-040-030-020-66
TITAN 7 Metal enclosure with mounting panel-40.40.15 NF1 IP66	400	400	150	TI7-10-N-040-040-015-66
TITAN 7 Metal enclosure with mounting panel-40.40.20 NF1 IP66	400	400	200	TI7-10-N-040-040-020-66
TITAN 7 Metal enclosure with mounting panel-40.40.25 NF1 IP66	400	400	250	TI7-10-N-040-040-025-66
TITAN 7 Metal enclosure with mounting panel-40.60.15 NF1 IP66	400	600	150	TI7-10-N-040-060-015-66
TITAN 7 Metal enclosure with mounting panel-40.60.25 NF1 IP66	400	600	250	TI7-10-N-040-060-025-66
TITAN 7 Metal enclosure with mounting panel-50.40.15 NF1 IP66	500	400	150	TI7-10-N-050-040-015-66
TITAN 7 Metal enclosure with mounting panel-50.40.20 NF1 IP66	500	400	200	TI7-10-N-050-040-020-66
TITAN 7 Metal enclosure with mounting panel-50.40.25 NF1 IP66	500	400	250	TI7-10-N-050-040-025-66
TITAN 7 Metal enclosure with mounting panel-60.40.40 NF1 IP66	600	400	400	TI7-10-N-060-040-040-66
TITAN 7 Metal enclosure with mounting panel-60.50.15 NF1 IP66	600	500	150	TI7-10-N-060-050-015-66
TITAN 7 Metal enclosure with mounting panel-60.50.20 NF1 IP66	600	500	200	TI7-10-N-060-050-020-66
TITAN 7 Metal enclosure with mounting panel-60.50.25 NF1 IP66	600	500	250	TI7-10-N-060-050-025-66
TITAN 7 Metal enclosure with mounting panel-60.60.40 NF1 IP66	600	600	400	TI7-10-N-060-060-040-66
TITAN 7 Metal enclosure with mounting panel-70.50.20 NF1 IP66	700	500	200	TI7-10-N-070-050-020-66
TITAN 7 Metal enclosure with mounting panel-80.60.25 NF1 IP66	800	600	250	TI7-10-N-080-060-025-66
TITAN 7 Metal enclosure with mounting panel-80.60.30 NF1 IP66	800	600	300	TI7-10-N-080-060-030-66
TITAN 7 Metal enclosure with mounting panel-80.60.40 NF1 IP66	800	600	400	TI7-10-N-080-060-040-66
TITAN 7 Metal enclosure with mounting panel-80.80.40 NF1 IP66	800	800	400	TI7-10-N-080-080-040-66
TITAN 7 Metal enclosure with mounting panel-100.60.30 NF1 IP66	1000	600	300	TI7-10-N-100-060-030-66
TITAN 7 Metal enclosure with mounting panel-100.80.30 NF1 IP66	1000	800	300	TI7-10-N-100-080-030-66
TITAN 7 Metal enclosure with mounting panel-100.80.40 NF1 IP66	1000	800	400	TI7-10-N-100-080-040-66
TITAN 7 Metal enclosure with mounting panel-120.60.30 NF1 IP66	1200	600	300	TI7-10-N-120-060-030-66
TITAN 7 Metal enclosure with mounting panel-120.60.40 NF1 IP66	1200	600	400	TI7-10-N-120-060-040-66
TITAN 7 Metal enclosure with mounting panel-120.80.30 NF1 IP66	1200	800	300	TI7-10-N-120-080-030-66
TITAN 7 Metal enclosure with mounting panel-120.80.40 NF1 IP66	1200	800	400	TI7-10-N-120-080-040-66
TITAN 7 Metal enclosure with mounting panel-140.60.30 NF1 IP66	1400	600	300	TI7-10-N-140-060-030-66

TITAN 7 metal enclosures with mounting panel

Metallic shells

TITAN

TITAN
Metal enclosures with mounting panel with a transparent door

IP54 metal enclosures with mounting panel with a transparent door IEK® are designed for the assembly of automation, signaling and control cabinets, power electrical equipment for various purposes in any industry, in agriculture, commercial and private housing construction.
Welded metal enclosure with removable galvanized mounting panel.
The enclosure door is locked with a padlock. The lock key has a single cylinder.
The door has a two-component polyurethane seal and a dust and moisture resistant lock.

Advantages

- Impact resistant tempered glass according to IK08 standard
- Fully robotic welding. Continuous welding of seams.
- Increased corrosion resistance.
- One lock cylinder.
- High manufacturability and ease of assembly.
- Convenience of installation.
- High electrical safety.
- Certificate of conformity.
- Mounting panel 1.5 mm thick.

Specifications

Installation type	wall-mounted
Metal thickness	1.0-1.4 mm (depending on size)
Rated current	up to 630 A
Cover type	powder, shagreen
Color	RAL 7035 (gray)
Degree of protection	IP54
Door opening angle	105°
Apparatus type	any
Climatic modification	N2

Design features

Tempered glass.

Mounting panel 1.5 mm thick.

Reinforced inner glass frame.

Robotic welding.

Explanation of designations

Metal enclosure with mounting panel-1-0 N2 IP54 with transparent door

1 –	enclosure size (HxW)
0 –	modification
N2 –	climatic modification
IP 54 –	degree of protection
Transparent door –	door with transparent tempered glass IK08

Scope of Delivery

Mounting panel
IP54 lock
Set of glands for cable entry
Enclosure mounting kit
Ground wire
Electrical safety signs

Metallic
shells

TITAN

Assortment

	Name	Overall dimensions, mm (H×W×D)	Weight, kg	Article
	Metal enclosure with mounting panel-1-0 N2 IP54 with transparent door	Enclosure, mm 395×310×220. Panel, mm: 330×250. Number of inputs: 11 holes ⌀31 mm (bottom).	6.6	YKM11-01-54-1
	Metal enclosure with mounting panel-2-0 N2 IP54 with transparent door	Enclosure, mm 500×400×220. Panel, mm: 430×340. Number of inputs: 11 holes ⌀31 mm (bottom).	9.85	YKM11-02-54-1
	Metal enclosure with mounting panel-3-0 N2 IP54 with transparent door	Enclosure, mm 650×500×220. Panel, mm: 580×440. Number of inputs: 13 holes ⌀31 mm (bottom).	14.3	YKM11-03-54-1
	Metal enclosure with mounting panel-4-0 N2 IP54 with transparent door	Enclosure, mm 800×650×250. Panel, mm: 730×585. Number of inputs: 1 holes 523×123 mm (bottom).	28.5	YKM11-04-54-1
	Metal enclosure with mounting panel-5-0 N2 IP54 with transparent door	Enclosure, mm 1000×650×285. Panel, mm: 930×585. Number of inputs: 1 holes 523×123 mm (bottom).	35.9	YKM11-05-54-1
	Metal enclosure with mounting panel-6-0 N2 IP54 with transparent door	Enclosure, mm 1200×750×300. Panel, mm: 1130×685. Number of inputs: 1 holes 523×123 mm (bottom).	47.5	YKM11-06-54-1
	Metal enclosure with mounting panel-7-0 N2 IP54 with transparent door	Enclosure, mm 1400×650×285. Panel, mm: 1330×585. Number of inputs: 1 holes 523×123 mm (bottom).	48	YKM11-07-54-1

Metallic shells

TITAN

TITAN
Red metal enclosures with mounting panel IP54 for automatic fire fighting equipment

Metal enclosures with mounting panel IP54 RAL 3020 IEK® are intended for assembly of fire control cabinets, fire pump control cabinets, fire alarm cabinets, as well as other low-voltage switchboards of any complexity for currents up to 630 A.

Welded metal enclosure with removable galvanized mounting panel.

The enclosure door is locked with a padlock. The lock key has a single cylinder.

The door has a two-component polyurethane seal and a dust and moisture resistant lock.

TITAN

Advantages

- Color Powder coating RAL 3020 red.
- Fully robotic welding. Continuous welding of seams.
- Increased corrosion resistance.
- One safety lock.
- High manufacturability and ease of assembly.
- Ease of installation.
- High electrical safety.
- Certificate of conformity.
- Mounting panel 1.5 mm thick.

Specifications

Installation type	wall-mounted
Metal thickness	1.0-1.4 mm (depending on size)
Rated current	up to 630 A
Cover type	powder, shagreen
Color	PPK RAL 3020 red
Degree of protection	IP54
Door opening angle	105°
Apparatus type	any
Climatic modification	N2

Design features

Powder coating
RAL 3020 red.

Robotic welding.
Continuous welding of seams
is a guarantee of stable
quality and high
competitiveness
of the product.

Mounting panel 1.5 mm thick.
Allows you to attach heavy
equipment.

Explanation of designations

Metal enclosure with mounting panel-1-0 N2 IP54 RAL 3020

1 – enclosure size (HxW)
0 – modification
N2 – climatic modification
IP 54 – IP rating
RAL 3020 – red

Scope of Delivery

Mounting panel
IP54 lock
set of glands for cable entry
board mounting kit
ground wire
electrical safety signs

Assortment

Name	Specifications	Color	Article
Metal enclosure with mounting panel-1-0 N2 IP54 RAL 3020	Enclosure, mm 395×310×220. Panel, mm: 330×250. Number of inputs: 11 holes ⌀31 mm (bottom). Weight: 6,5 kg	RAL 3020	IND-YKM40-01-54
Metal enclosure with mounting panel-2-0 N2 IP54 RAL 3020	Enclosure, mm 500×400×220. Panel, mm: 430×340. Number of inputs: 11 holes ⌀31 mm (bottom). Weight: 9.5 kg	RAL 3020	IND-YKM40-02-54
Metal enclosure with mounting panel-3-0 N2 IP54 RAL 3020	Enclosure, mm 650×500×220. Panel, mm: 580×440. Number of inputs: 13 holes ⌀31 mm (bottom). Weight: 13.9 kg	RAL 3020	IND-YKM40-03-54
Metal enclosure with mounting panel-4-0 N2 IP54 RAL 3020	Enclosure, mm 800×650×250. Panel, mm: 730×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 27.8 kg	RAL 3020	IND-YKM40-04-54
Metal enclosure with mounting panel-5-0 N2 IP54 RAL 3020	Enclosure, mm 1000×650×285. Panel, mm: 930×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 34.8 kg	RAL 3020	IND-YKM40-05-54
Metal enclosure with mounting panel-6-0 N2 IP54 RAL 3020	Enclosure, mm 1200×750×300. Panel, mm: 1130×685. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 46.2 kg	RAL 3020	IND-YKM40-06-54
Metal enclosure with mounting panel-7-0 N2 IP54 RAL 3020	Enclosure, mm 1400×650×285. Panel, mm: 1330×585. Number of inputs: 1 holes 523×123 mm (bottom). Weight: 46.6 kg	RAL 3020	IND-YKM40-07-54

Metallic
shells

TITAN

TITAN
All-welded metal assembling enclosures for incoming and distribution switchboard

Metal assembling enclosures for incoming and distribution switchboard are designed to receive, distribute and meter electricity with a voltage of 400/230 V in three-phase alternating current networks with a frequency of 50 Hz, to protect lines from short-circuit currents and overloads, as well as for infrequent operational switching on and off.

The TITAN metal assembling enclosures for incoming and distribution switchboard IEK® is an all-welded frame made of sheet steel with increased corrosion resistance (base in the complete set). Due to special production technologies, all-welded enclosures have rigidity and mechanical strength that are unique for the modern LVE market.

The area of application of the metal assembling enclosures for incoming and distribution switchboard is civil construction and industrial enterprises.

Advantages
- Application of modern technologies – additional rigidity of the structure.
- Available in the range of enclosures with a degree of protection IP54.
- Large selection of additional accessories made of galvanized steel.
- Increased functionality.
- Wide range.
- Possibility of re-hanging the door.
- Increased corrosion resistance.
- High level of electrical safety.
- High manufacturability and ease of assembly.
- Certificate of conformity.

Specifications

Installation type	floor
Metal thickness	1.4 mm
Degree of protection	IP31, IP54
Rated current	up to 1000 A
Cover type	powder, shagreen
Color	EPK RAL 7035 – for IP31, PPK RAL 7035 – for IP54
Climatic modification	NF3 for IP31, N2 for IP54
Door opening angle	130°
Input of conductors	bottom

Metallic shells

Design features

Possibility to adjust the installation depth of the mounting panel.

Moving the door to either side.

In the metal assembling enclosure for incoming and distribution switchboard IP54, there is the possibility of convenient cable entry. A special removable panel is installed in the lower wall (bottom) of the metal assembling enclosure for incoming and distribution switchboard.

Pocket on the door for storing documents.

Eyebolts allow slinging of the product.

The set of all accessories includes hardware for installation in the enclosure.

The total height covered by the LG/LMA panels is equal to the height of the frame (H) minus 50 mm.

Explanation of designations

Full-weld floor cabinet of **TITAN metal assembling enclosure for incoming and distribution switchboard-1 20.80.60 IP31**

1 – version with one door
20 – height 2000 mm (excluding the base – 70 mm)
80 – width 800 mm
60 – depth 600 mm
IP31 – IP rating
TITAN – series name

Scope of Delivery

– TITAN metal assembling enclosure for incoming and distribution switchboard
– grounding sign
– sign "Caution! Electric voltage"
– product data sheet
– ground wire with fasteners
– base

Assortment

Name	Article
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.45.45 IP31 TITAN	YKM1-C3-1844-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.60.45 IP31 TITAN	YKM1-C3-1864-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.60.60 IP31 TITAN	YKM1-C3-1866-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.80.45 IP31 TITAN	YKM1-C3-1884-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.80.60 IP31 TITAN	YKM1-C3-1886-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.45.45 IP31 TITAN	YKM1-C3-2044-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.60.45 IP31 TITAN	YKM1-C3-2064-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.60.60 IP31 TITAN	YKM1-C3-2066-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.80.45 IP31 TITAN	YKM1-C3-2084-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.80.60 IP31 TITAN	YKM1-C3-2086-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.45.45 IP54 TITAN	YKM1-C3-1844-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.60.45 IP54 TITAN	YKM1-C3-1864-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.60.60 IP54 TITAN	YKM1-C3-1866-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.80.45 IP54 TITAN	YKM1-C3-1884-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 18.80.60 IP54 TITAN	YKM1-C3-1886-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.45.45 IP54 TITAN*	YKM1-C3-2044-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.60.45 IP54 TITAN	YKM1-C3-2064-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.60.60 IP54 TITAN	YKM1-C3-2066-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.80.45 IP54 TITAN	YKM1-C3-2084-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-1 20.80.60 IP54 TITAN	YKM1-C3-2086-54

Name	Article
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.45.45 IP31 TITAN	YKM2-C3-1844-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.60.45 IP31 TITAN	YKM2-C3-1864-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.80.45 IP31 TITAN	YKM2-C3-1884-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.45.45 IP31 TITAN*	YKM2-C3-2044-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.60.45 IP31 TITAN	YKM2-C3-2064-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.80.45 IP31 TITAN	YKM2-C3-2084-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.45.45 IP54 TITAN*	YKM2-C3-1844-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.60.60 IP54 TITAN*	YKM2-C3-1866-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.80.45 IP54 TITAN*	YKM2-C3-1884-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 18.80.60 IP54 TITAN*	YKM2-C3-1886-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.45.45 IP54 TITAN*	YKM2-C3-2044-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.60.45 IP54 TITAN*	YKM2-C3-2064-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.60.60 IP54 TITAN	YKM2-C3-2066-54
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-2 20.80.60 IP54 TITAN*	YKM2-C3-2086-54

Name	Article
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-3 20.60.45 IP31 TITAN	YKM3-C3-2064-31
Full-weld floor cabinet of metal assembling enclosure for incoming and distribution switchboard-3 20.60.45 IP54 TITAN*	YKM3-C3-2064-54

Accessories for TITAN* metal assembling enclosures for incoming and distribution switchboard

1 – Side panel
2 – mounting panel
3 – Vertical angle
4 – PN panel
5 – Bar
6 – Frame for LG/LMA panels for metal assembling enclosures for incoming and distribution switchboard
7 – LMA panel for metal assembling enclosures for incoming and distribution switchboard
8 – VA 88-35 panel for metal assembling enclosures for incoming and distribution switchboard
9 – Operative rotary panel SMART
10 – LG panel for metal assembling enclosures for incoming and distribution switchboard
11 – Base

Selection table of accessories for TITAN metal assembling enclosures for incoming and distribution switchboard

Name	Purpose	Installation place	Overall dimensions, mm	Completeness		Article
				unit of measurement	pcs.	
Side panel for metal assembling enclosure for incoming and distribution switchboard 18.XX.45 IP31 TITAN	Closes the side openings of the metal assembling enclosure for incoming and distribution switchboard frames, provides electrical safety and prevents the penetration of foreign objects into the shield	Metal assembling enclosure for incoming and distribution switchboard 18.XX.45	27×1720×385	set	2	YKV10-PB-1845-31
Side panel for metal assembling enclosure for incoming and distribution switchboard 18.XX.60 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard 18.XX.60	27×1720×535	set	2	YKV10-PB-1860-31
Side panel for metal assembling enclosure for incoming and distribution switchboard 20.XX.45 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard 20.XX.45	27×1920×385	set	2	YKV10-PB-2045-31
Side panel for metal assembling enclosure for incoming and distribution switchboard 20.XX.60 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard 20.XX.60	27×1920×535	set	2	YKV10-PB-2060-31
Side panel for metal assembling enclosure for incoming and distribution switchboard 18.XX.45 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard 18.XX.45	27×1720×385	set	2	YKV10-PB-1845-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 18.XX.60 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard 18.XX.60	27×1720×535	set	2	YKV10-PB-1860-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 20.XX.45 IP54 TITAN (set		Metal assembling enclosure for incoming and distribution switchboard 20.XX.45	27×1920×385	set	2	YKV10-PB-2045-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 20.XX.60 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard 20.XX.60	27×1920×535	set	2	YKV10-PB-2060-54
Mounting panel 250×265 TITAN	For the installation of various electrical devices	Metering compartment of the metal assembling enclosure for incoming and distribution switchboard-3	36×275×260	set	2	YKV10-PM-250-265
Mounting panel 250×365 TITAN		Cabinet 450 mm wide, input compartment of the metal assembling enclosure for incoming and distribution switchboard-3	36×375×260	set	2	YKV10-PM-250-365
Mounting panel 250×530 TITAN		600 mm wide cabinet	36×540×260	set	2	YKV10-PM-250-530
Mounting panel 250э730 TITAN		Cabinet 800 mm wide	36×740×260	set	2	YKV10-PM-250-730
Mounting panel 500э265 TITAN		Metering compartment of the metal assembling enclosure for incoming and distribution switchboard-3	36×510×275	set	2	YKV10-PM-500-265
Mounting panel 500×365 TITAN		Cabinet 450 mm wide	36×375×510	set	2	YKV10-PM-500-365
Mounting panel 500×530 TITAN		600 mm wide cabinet	36×540×510	set	2	YKV10-PM-500-530
Mounting panel 500×730 TITAN		Cabinet 800 mm wide	36×740×510	set	2	YKV10-PM-500-730
Panel PN-365 TITAN	For installing fuse holders	Cabinet 450 mm wide	46×373×150	set	3	YKM40-PN-365
Panel PN-530 TITAN		600 mm wide cabinet	46×538×150	set	3	YKM40-PN-530
Panel PN-730 TITAN		Cabinet 800 mm wide	46×738×150	set	3	YKM40-PN-730
Bar 265 TITAN	For the installation of single electrical devices or several devices with the same mounting height overall	Metering compartment of the metal assembling enclosure for incoming and distribution switchboard-3	30×270×30	set	2	YKM40-P-265
Bar 365 TITAN		Cabinet 450 mm wide	30×370×30	set	2	YKM40-P-365
Bar 530 TITAN		600 mm wide cabinet	30×540×30	set	2	YKM40-P-530
Bar 730 TITAN		Cabinet 800 mm wide	30×740×30	set	2	YKM40-P-730

* Accessories must be ordered separately. The set of all accessories includes hardware for their installation.

Metallic shells

TITAN

Name	Purpose	Place of installation	Overall dimensions, mm	Completeness		Article
				unit of measurement	pcs.	
Vertical angle 600 TITAN	For installing strips, mounting panels	Metering compartment Metal assembling enclosure for incoming and distribution switchboard-2, metal assembling enclosure for incoming and distribution switchboard-3	33×605×33	set	2	YKV10-UV-600
Vertical angle 700 TITAN		Metal assembling enclosure for incoming and distribution switchboard-1 (for devices with small mass)	33×705×33	set	2	YKV10-UV-700
Vertical angle 900 TITAN		Input compartment Metal assembling enclosure for incoming and distribution switchboard-2 1800 mm high	42×905×58	set	2	YKV10-UV-900
Vertical angle 1100 TITAN		Input compartment Metal assembling enclosure for incoming and distribution switchboard-2, metal assembling enclosure for incoming and distribution switchboard-3 height 2000 mm	42×1105×58	set	2	YKV10-UV-1100
Vertical angle 1550 TITAN		Metal assembling enclosure for incoming and distribution switchboard-1 height 1800 mm	42×1555×58	set	2	YKV10-UV-1550
Vertical angle 1750 TITAN		Metal assembling enclosure for incoming and distribution switchboard-1 height 2000 mm	42×1755×58	set	2	YKV10-UV-1750
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=550) set 2 pcs.	For protection against direct contact with live parts	On the frame under the LG/LMA panels	550×380×1	set	2	YKV-PVA-36-45-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=550) set 2 pcs.			550×530×1	set	2	YKV-PVA-36-60-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=550) set 2 pcs.			550×730×1	set	2	YKV-PVA-36-80-550
Operative rotary panel SMART (H=300) 450	For protection against direct contact with live parts	On the frame under the LG/LMA panels	300×380×23	pcs.	1	YKV-POP-300-450
Operative rotary panel SMART (H=300) 600			300×530×23	pcs.	1	YKV-POP-300-600
Operative rotary panel SMART (H=300) 800			300×730×23	pcs.	1	YKV-POP-300-800
Operative rotary panel SMART (H=600) 450			600×380×23	pcs.	1	YKV-POP-600-450
Operative rotary panel SMART (H=600) 600			600×530×23	pcs.	1	YKV-POP-600-600
Operative rotary panel SMART (H=600) 800			600×730×23	pcs.	1	YKV-POP-600-800
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=100) set 2 pcs.	For protection against direct contact with live parts	On the frame under the LG/LMA panels	100×380×1	set	2	YKV-PLG-36-45-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=150) set 2 pcs.			150×380×1	set	2	YKV-PL-G-36-45-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=200) set 2 pcs.			200×380×1	set	2	YKV-PLG-36-45-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.			300×380×1	set	2	YKV-PL-G-36-45-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=400) set 2 pcs.			400×380×1	set	2	YKV-PL-G-36-45-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=50) set 2 pcs.			50×380×1	set	2	YKV-PL-G-36-45-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=500) set 2 pcs.			500×380×1	set	2	YKV-PL-G-36-45-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=600) set 2 pcs.			600×380×1	set	2	YKV-PLG-36-45-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=100) set 2 pcs.			100×530×1	set	2	YKV-PLG-36-60-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) set 2 pcs.			150×530×1	set	2	YKV-PL-G-36-60-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.			200×530×1	set	2	YKV-PLG-36-60-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) set 2 pcs.			300×530×1	set	2	YKV-PL-G-36-60-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=400) set 2 pcs.			400×530×1	set	2	YKV-PL-G-36-60-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=50) set 2 pcs.			50×530×1	set	2	YKV-PL-G-36-60-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=500) set 2 pcs.			500×530×1	set	2	YKV-PL-G-36-60-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=600) set 2 pcs.			600×530×1	set	2	YKV-PLG-36-60-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=100) set 2 pcs.			100×730×1	set	2	YKV-PLG-36-80-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=150) set 2 pcs.			150×730×1	set	2	YKV-PL-G-36-80-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) set 2 pcs.			200×730×1	set	2	YKV-PLG-36-80-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) set 2 pcs.			300×730×1	set	2	YKV-PL-G-36-80-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=400) set 2 pcs.			400×730×1	set	2	YKV-PL-G-36-80-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=50) set 2 pcs.			50×730×1	set	2	YKV-PL-G-36-80-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=500) set 2 pcs.			500×730×1	set	2	YKV-PL-G-36-80-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=600) set 2 pcs.			600×730×1	set	2	YKV-PLG-36-80-600

Metallic shells

TITAN

Name	Purpose	Place of installation	Number of modules	Overall dimensions, mm	Completeness		Article
					unit of measurement	pcs.	
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=200) set 2 pcs.	For protection against direct contact with live parts	On the frame under the LG/LMA panels	17	200×380×1	set	2	YKV-PL-0-36-45-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.			17	300×380×1	set	2	YKV-PL-0-36-45-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=150) set 2 pcs.			17	150×380×1	set	2	YKV-PL-0-36-45-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.			26	200×530×1	set	2	YKV-PL-0-36-60-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.60.xx 36 TITAN (H=300) set 2 pcs.			26	300×530×1	set	2	YKV-PL-0-36-60-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) set 2 pcs.			26	150×530×1	set	2	YKV-PL-0-36-60-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.80.xx 36 TITAN (H=200) set 2 pcs.			37	200×730×1	set	2	YKV-PL-0-36-80-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.80.xx 36 TITAN (H=300) set 2 pcs.			37	300×730×1	set	2	YKV-PL-0-36-80-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.80.xx 36 TITAN (H=150) set 2 pcs.			37	150×730×1	set	2	YKV-PL-0-36-80-0
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x450xXXX (H=1750) SMART	For fixing LG, LMA, VA panels and swivel panels	Metal assembling enclosure for incoming and distribution switchboard-1 18.45.45		1740×393×37	pcs.	1	YKV-RAMA-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x600xXXX (H=1750) SMART		Metal assembling enclosure for incoming and distribution switchboard 1 18.60.XX		1740×543×37	pcs.	1	YKV-RAMA-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x800xXXX (H=1750) SMART		Metal assembling enclosure for incoming and distribution switchboard 1 18.80.XX		1740×743×37	pcs.	1	YKV-RAMA-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x450xXXX (H=1950) SMART		Metal assembling enclosure for incoming and distribution switchboard-1 20.45.45		1940×393×37	pcs.	1	YKV-RAMA-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x600xXXX (H=1950) SMART		Metal assembling enclosure for incoming and distribution switchboard 1 20.60.XX		1940×543×37	pcs.	1	YKV-RAMA-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x800xXXX (H=1950) SMART		Metal assembling enclosure for incoming and distribution switchboard 1 20.80.XX		1940×743×37	pcs.	1	YKV-RAMA-2000-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXXx450xXXX (H=600) SMART		Metering compartment Metal assembling enclosure for incoming and distribution switchboard-2 450 mm wide		615×393×37	pcs.	1	YKV-RAMA2-600-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX (H=600) SMART		Metering compartment Metal assembling enclosure for incoming and distribution switchboard-2 600 mm wide, metal assembling enclosure for incoming and distribution switchboard-3 20.60.45		615×543×37	pcs.	1	YKV-RAMA2-600-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX (H=600) SMART*		Metering compartment Metal assembling enclosure for incoming and distribution switchboard-2 800 mm wide		615×743×37	pcs.	1	YKV-RAMA2-600-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x450xXXX (H=1100) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 18.45.45		1090×393×37	pcs.	1	YKV-RAMA1-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x600xXXX (H=1100) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 18.60.XX		1090×543×37	pcs.	1	YKV-RAMA1-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800x800xXXX (H=1100) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 18.80.XX		1090×743×37	pcs.	1	YKV-RAMA1-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x450xXXX (H=1300) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 20.45.45		1290×393×37	pcs.	1	YKV-RAMA1-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x600xXXX (H=1300) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 20.60.XX metal assembling enclosure for incoming and distribution switchboard- 3 20.60.45		1290×543×37	pcs.	1	YKV-RAMA1-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000x800xXXX (H=1300) SMART		Input compartment of the metal assembling enclosure for incoming and distribution switchboard-2 20.80.XX		1290×743×37	pcs.	1	YKV-RAMA1-2000-800
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP31 TITAN	Convenient installation of the enclosure and cable entry	Metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP31		70×450×423	set	1	YKV10-TS-450-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP31		70×600×423	set	1	YKV10-TS-600-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP31		70×600×573	set	1	YKV10-TS-600-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP31		70×800×423	set	1	YKV10-TS-800-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP31 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP31		70×800×573	set	1	YKV10-TS-800-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP54		70×450×423	set	1	YKV10-TS-450-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP54		70×600×423	set	1	YKV10-TS-600-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP54		70×600×573	set	1	YKV10-TS-600-600-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP54		70×800×423	set	1	YKV10-TS-800-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP54 TITAN		Metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP54		70×800×573	set	1	YKV10-TS-800-600-54

Metallic shells

TITAN

![IEK logo]

SMART
Collapsible metal assembling enclosures for incoming and distribution switchboards

Metal assembling enclosures for incoming and distribution switchboards are designed to receive, distribute and meter electricity with a voltage of 400/230 V in three-phase alternating current networks with a frequency of 50 Hz, to protect lines in case of short circuits and overloads, as well as for infrequent operational switching on and off.

SMART IEK® metal assembling enclosures for incoming and distribution switchboards are used for further assembly on their basis of input-distribution low-voltage complete devices intended for power supply of various objects. On the basis of SMART metal assembling enclosure for incoming and distribution switchboard it is possible to assemble most of the existing LVCD circuits.

Advantages ● High manufacturability and ease of assembly.

- Possibility of installing blanking plates.
- Convenience of installation, transportation and storage.
- A wide range of accessories, the ability to divide the space into compartments.
- Possibility of installing accessories at different depths (20 mm steps), widths (25 mm steps) and heights (25 mm steps).
- Improved enclosure design provides more efficient use of workspace.
- Removable side panels provide easy access to equipment during installation.

- High quality coating.
- Reversible door.
- Profile on the door for the installation of lighting equipment.
- Increased corrosion resistance.
- Possibility of connecting enclosures into blocks.
- High level of electrical safety.
- Pocket for documents.
- Ground studs on the door.
- Certificate of conformity.

Specifications

Metal thickness, mm	1.4
Rated current, A	630
Degree of protection	IP31, IP54
Climatic modification	NF3, N2
Degree of protection	IP54
Installation type	floor
Apparatus type	any
Cover type	EPA powder, shagreen
Color	RAL 7035
Door opening angle	120°

IEK

Design features

1 – Back wall
2 – Roof
3 – Coupler – 4 pcs.
4 – Front frame
5 – Door
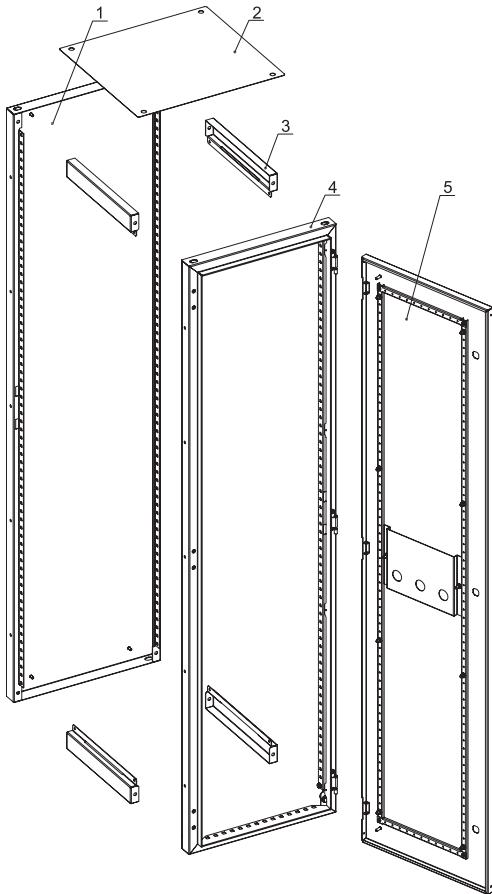
The total height covered by the LG/LMA panels is equal to the height of the enclosure minus 100 mm.

Explanation of designations

– metal assembling enclosure for incoming and distribution switchboard
– height
– width
– depth
– IP rating
– series name

Scope of Delivery

– SMART metal assembling enclosure for incoming and distribution switchboard
– grounding sign
– sign "Caution! Electric voltage"
– product data sheet
- complete set of hardware for assembly

Assortment

Metal assembling enclosure for incoming and distribution switchboard SMART IP31

Name	Weight, kg	Overall dimensions (H×W×D), mm	Article
Metal assembling enclosure for incoming and distribution switchboard-1800×450×450 IP31 SMART	40.3	1800×450×450	YKM50-1800-450-450
Metal assembling enclosure for incoming and distribution switchboard-1800×600×450 IP31 SMART	54.3	1800×600×450	YKM50-1800-600-450
Metal assembling enclosure for incoming and distribution switchboard-1800×600×600 IP31 SMART	55.8	1800×600×600	YKM50-1800-600-600
Metal assembling enclosure for incoming and distribution switchboard-1800×800×450 IP31 SMART	67.3	1800×800×450	YKM50-1800-800-450
Metal assembling enclosure for incoming and distribution switchboard-1800×800×600 IP31 SMART	69	1800×800×600	YKM50-1800-800-600
Metal assembling enclosure for incoming and distribution switchboard-2000×450×450 IP31 SMART	48.4	2000×450×450	YKM50-2000-450-450
Metal assembling enclosure for incoming and distribution switchboard-2000×600×450 IP31 SMART	59	2000×600×450	YKM50-2000-600-450
Metal assembling enclosure for incoming and distribution switchboard-2000×600×600 IP31 SMART	60.5	2000×600×600	YKM50-2000-600-600
Metal assembling enclosure for incoming and distribution switchboard-2000×800×450 IP31 SMART	73.2	2000×800×450	YKM50-2000-800-450
Metal assembling enclosure for incoming and distribution switchboard-2000×800×600 IP31 SMART	74.8	2000×800×600	YKM50-2000-800-600

Metal assembling enclosure for incoming and distribution switchboard SMART IP54

Name	Weight, kg	Overall dimensions (H×W×D), mm	Article
Metal assembling enclosure for incoming and distribution switchboard-1800 450×450× IP54 SMART	40.3	1800×450×450	YKM50-1800-450-450-54
Metal assembling enclosure for incoming and distribution switchboard-1800 450×600× IP54 SMART	54.3	1800×600×450	YKM50-1800-600-450-54
Metal assembling enclosure for incoming and distribution switchboard-1800 600×600× IP54 SMART	55.8	1800×600×600	YKM50-1800-600-600-54
Metal assembling enclosure for incoming and distribution switchboard-1800×800×450 IP54 SMART	67.3	1800×800×450	YKM50-1800-800-450-54
Metal assembling enclosure for incoming and distribution switchboard-1800 ×800×600 IP54 SMART	69	1800×800×600	YKM50-1800-800-600-54
Metal assembling enclosure for incoming and distribution switchboard-2000 ×450×450 IP54 SMART	48.4	2000×450×450	YKM50-2000-450-450-54
Metal assembling enclosure for incoming and distribution switchboard-2000 ×600×450 IP54 SMART	59	2000×600×450	YKM50-2000-600-450-54
Metal assembling enclosure for incoming and distribution switchboard-2000 ×600×600 IP54 SMART	60.5	2000×600×600	YKM50-2000-600-600-54
Metal assembling enclosure for incoming and distribution switchboard-2000 ×800×450 IP54 SMART	73.2	2000×800×450	YKM50-2000-800-450-54
Metal assembling enclosure for incoming and distribution switchboard-2000 ×800×600 IP54 SMART	74.8	2000×800×600	YKM50-2000-800-600-54

Metallic shells

SMART

IEK

IP31 SMART metal assembling enclosure for incoming and distribution switchboard-2

Name	Weight, kg	Overall dimensions (H×W×D), mm	Article
Metal assembling enclosure for incoming and distribution switchboard-2 1800×600×450 IP31 SMART	54.3	1800×600×450	YKM51-1800-600-450-31
Metal assembling enclosure for incoming and distribution switchboard-2 1800×600×600 IP31 SMART	55.8	1800×600×600	YKM51-1800-600-600-31
Metal assembling enclosure for incoming and distribution switchboard-2 1800×800×450 IP31 SMART	67.3	1800×800×450	YKM51-1800-800-450-31
Metal assembling enclosure for incoming and distribution switchboard-2 1800×800×600 IP31 SMART	69	1800×800×600	YKM51-1800-800-600-31
Metal assembling enclosure for incoming and distribution switchboard-2 2000×600×450 IP31 SMART	59	2000×600×450	YKM51-2000-600-450-31
Metal assembling enclosure for incoming and distribution switchboard-2 2000×600×600 IP31 SMART	60.5	2000×600×600	YKM51-2000-600-600-31
Metal assembling enclosure for incoming and distribution switchboard-2 2000×800×450 IP31 SMART	73.2	2000×800×450	YKM51-2000-800-450-31
Metal assembling enclosure for incoming and distribution switchboard-2 2000×800×600 IP31 SMART	74.8	2000×800×600	YKM51-2000-800-600-31

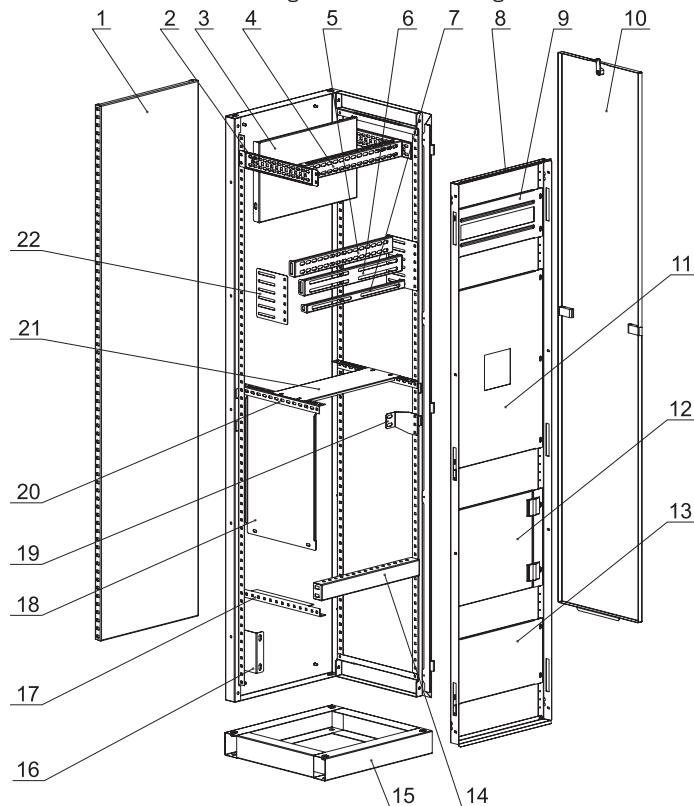## Metal assembling enclosure for incoming and distribution switchboard-2 IP54 SMART

Name	Weight, kg	Overall dimensions (H×W×D), mm	Article
Metal assembling enclosure for incoming and distribution switchboard-2 1800×600×450 IP54 SMART	54.3	1800×600×450	YKM51-1800-600-450-54
Metal assembling enclosure for incoming and distribution switchboard-2 1800×600×600 IP54 SMART	55.8	1800×600×600	YKM51-1800-600-600-54
Metal assembling enclosure for incoming and distribution switchboard-2 1800×800×450 IP54 SMART	67.3	1800×800×450	YKM51-1800-800-450-54
Metal assembling enclosure for incoming and distribution switchboard-2 1800×800×600 IP54 SMART	69	1800×800×600	YKM51-1800-800-600-54
Metal assembling enclosure for incoming and distribution switchboard-2 2000×600×450 IP54 SMART	59	2000×600×450	YKM51-2000-600-450-54
Metal assembling enclosure for incoming and distribution switchboard-2 2000×600×600 IP54 SMART	60.5	2000×600×600	YKM51-2000-600-600-54
Metal assembling enclosure for incoming and distribution switchboard-2 2000×800×450 IP54 SMART	73.2	2000×800×450	YKM51-2000-800-450-54
Metal assembling enclosure for incoming and distribution switchboard-2 2000×800×600 IP54 SMART	74.8	2000×800×600	YKM51-2000-800-600-54

Accessories

The purpose and place of installation of accessories can be found on the website www.iek.ru in the section Installation and Operation Manual for the SMART metal assembling enclosure for incoming and distribution switchboard.

1 – Mounting panel XXXXxXXX SMART
2 – Side rail for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXXXXX SMART
3 – Mounting panel XXXxXXXX SMART
4 – Rail XXX for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
5 – Crossbar XXX for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
6 – Double-row crossbar SMART
7 – Single-row crossbar SMART
8 – Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX (H = XXX) SMART[*]
9 – LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.xx.xx xx TITAN (H = xxx)[*]
10 – Side panel for metal assembling enclosure for incoming and distribution switchboard XXXX.XXX.XXX SMART
11 – Panel VA 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.xx.xxx xx TITAN (H = 550)[*]
12 – Operative rotary panel SMART (H=XXX)[*]
13 – LG Panel for metal assembling enclosure for incoming and distribution switchboard-x xx.xx.xx xx TITAN (H = xxx)[*]
14 – Cross profile XXX for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
15 – base of metal assembling enclosure for incoming and distribution switchboard xx.xx.xx[*]
16 – Bracket for N/PE busbars SMART
17 – Side U-profile for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
18 – Partition 450xXXX for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
19 – Bracket-xx for DIN-rail SMART
20 – Angle for equipment XXX SMART
21 – Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX (H = XXX) SMART
22 – Installation plate SMART

* Accessories are suitable for both metal assembling enclosures for incoming and distribution switchboards SMART and metal assembling enclosures for incoming and distribution switchboards TITAN.

Metallic shells

SMART

Assortment

Name	Overall dimensions (HxWxD), mm	Color	Article
Side U-profile for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx450 SMART (set 2 pcs.)	24,5×340×25	galvanized	YKV-BPP-450
Side U-profile for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx600 SMART (set 2 pcs.)	24,5×490×25	galvanized	YKV-BPP-600
Bracket for N/PE busbars SMART (set 2 pcs.)	124×30×75	galvanized	YKV-K-NPE
Bracket-45 for DIN-rail SMART (set 2 pcs.)	40×39×45	galvanized	YKV-K-DIN-45
Bracket-70 for DIN-rail SMART (set 2 pcs.)	65×39×70	galvanized	YKV-K-DIN-70
Bracket-95 for DIN-rail SMART (set 2 pcs.)	65×39×95	galvanized	YKV-K-DIN-95
Rail 412 for metal assembling enclosure for incoming and distribution switchboard XXXXx450xXXX SMART	50×412×25	galvanized	YKV-L-412-450
Rail 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART	50×562×25	galvanized	YKV-L-562-600
Rail 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART	50×762×25	galvanized	YKV-L-762-800
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.450 SMART (set 2 pcs.)	1694×338×17	RAL 7035	YKV-PB-18-45
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.600 SMART (set 2 pcs.)	1694×488×17	RAL 7035	YKV-PB-18-60
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.450 SMART (set 2 pcs.)	1894×338×17	RAL 7035	YKV-PB-20-45
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.600 SMART (set 2 pcs.)	1894×488×17	RAL 7035	YKV-PB-20-60
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.450 IP54 SMART (set 2 pcs.)	1694×338×17	RAL 7035	YKV-PB-18-45-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.600 IP54 SMART (set 2 pcs.)	1694×488×17	RAL 7035	YKV-PB-18-60-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.450 IP54 SMART (set 2 pcs.)	1894×338×17	RAL 7035	YKV-PB-20-45-54
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.600 IP54 SMART (set 2 pcs.)	1894×488×17	RAL 7035	YKV-PB-20-60-54
Mounting panel 1650×412 TITAN	1650×412×25	galvanized	YKV-PM-1650-412
Mounting panel 1650×562 SMART	1650×562×25	galvanized	YKV-PM-1650-562
Mounting panel 1650×762 SMART	1650×762×25	galvanized	YKV-PM-1650-762
Mounting panel 1850×412 SMART	1850×412×25	galvanized	YKV-PM-1850-412
Mounting panel 1850×562 SMART	1850×562×25	galvanized	YKV-PM-1850-562
Mounting panel 1850×762 SMART	1850×762×25	galvanized	YKV-PM-1850-762
Mounting panel 250×412 SMART (set 2 pcs.)	250×412×25	galvanized	YKV-PM-250-412
Mounting panel 250×562 SMART (set 2 pcs.)	250×562×25	galvanized	YKV-PM-250-562
Mounting panel 250×762 SMART (set 2 pcs.)	250×762×25	galvanized	YKV-PM-250-762
Mounting panel 500×412 SMART (set 2 pcs.)	500×412×25	galvanized	YKV-PM-500-412
Mounting panel 500×562 SMART (set 2 pcs.)	500×562×25	galvanized	YKV-PM-500-562
Mounting panel 500×762 SMART (set 2 pcs.)	500×762×25	galvanized	YKV-PM-500-762
Operative rotary panel SMART (H=300) 450**	300×380×23	RAL 7035	YKV-POP-300-450
Operative rotary panel SMART (H=300) 600**	300×530×23	RAL 7035	YKV-POP-300-600
Operative rotary panel SMART (H=300) 800**	300×730×23	RAL 7035	YKV-POP-300-800
Operative rotary panel SMART (H=600) 450**	600×380×23	RAL 7035	YKV-POP-600-450
Operative rotary panel SMART (H=600) 600**	600×530×23	RAL 7035	YKV-POP-600-600
Operative rotary panel SMART (H=600) 800**	600×730×23	RAL 7035	YKV-POP-600-800
Partition 450×290 for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×450 SMART	450×290×8	RAL 7035	YKV-P-450-290
Partition 450×440 for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART	450×440×8	RAL 7035	YKV-P-450-440
Installation plate SMART (set 2 pcs.)	150×130×1,5	galvanized	YKV-PU
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×450 (H = 340) SMART	8×410×340	RAL 7035	YKV-P-450-450
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 140) SMART	8×410×140	RAL 7035	YKV-P-450-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 200) SMART	8×410×200	RAL 7035	YKV-P-450-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 290) SMART	8×410×290	RAL 7035	YKV-P-450-B290
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×450 (H = 340) SMART	8×560×340	RAL 7035	YKV-P-600-450
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×600 (H = 490) SMART	8×560×490	RAL 7035	YKV-P-600-600
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H = 140) SMART*	8×560×140	RAL 7035	YKV-P-600-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H = 200) SMART*	8×560×200	RAL 7035	YKV-P-600-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H = 290) SMART	8×560×290	RAL 7035	YKV-P-600-B290
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×800×450 (H = 340) SMART	8×760×340	RAL 7035	YKV-P-800-450
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×800×600 (H = 490) SMART	8×760×490	RAL 7035	YKV-P-800-600
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H = 140) SMART	8×760×140	RAL 7035	YKV-P-800-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H = 200) SMART	8×760×200	RAL 7035	YKV-P-800-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H = 290) SMART	8×760×290	RAL 7035	YKV-P-800-B290
Transverse profile 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	50×412×35	galvanized	YKV-PP-412-450
Transverse profile 562 for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART	50×562×35	galvanized	YKV-PP-562-600
Transverse profile 762 for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART	50×762×35	galvanized	YKV-PP-762-800

Metallic shells

SMART

Name	Overall dimensions (HxWxD), mm	Color	Article
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H=600) SMART	615×393×37	RAL 7035	YKV-RAMA2-600-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=600) SMART	615×543×37	RAL 7035	YKV-RAMA2-600-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H=600) SMART	615×743×37	RAL 7035	YKV-RAMA2-600-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1100) SMART	1090×393×37	RAL 7035	YKV-RAMA1-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1100) SMART	1090×543×37	RAL 7035	YKV-RAMA1-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1100) SMART	1090×743×37	RAL 7035	YKV-RAMA1-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1300) SMART	1290×393×37	RAL 7035	YKV-RAMA1-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1300) SMART	1290×543×37	RAL 7035	YKV-RAMA1-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1300) SMART	1290×743×37	RAL 7035	YKV-RAMA1-2000-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1750) SMART**	1740×393×37	RAL 7035	YKV-RAMA-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1750) SMART**	1740×543×37	RAL 7035	YKV-RAMA-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1750) SMART**	1740×743×37	RAL 7035	YKV-RAMA-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1950) SMART**	1940×393×37	RAL 7035	YKV-RAMA-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1950) SMART**	1940×543×37	RAL 7035	YKV-RAMA-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1950) SMART**	1940×743×37	RAL 7035	YKV-RAMA-2000-800
Transverse double row rail 412 SMART (set 2 pcs.)	50×412×25	galvanized	YKV-RPD-412-450
Transverse double row rail 562 SMART (set 2 pcs.)	50×562×25	galvanized	YKV-RPD-562-600
Transverse double row rail 762 SMART (set 2 pcs.)	50×762×25	galvanized	YKV-RPD-762-800
Side rail for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×450 SMART (set 2 pcs.)	330×8×50	galvanized	YKV-RB-450
Side rail for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART (set 2 pcs.)	480×8×50	galvanized	YKV-RB-600
Crossbar 412 for metal assembling enclosure for incoming and distribution switchboard XXXXx450xXXX SMART	50×412×25	galvanized	YKV-RP-412-450
Crossbar 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART	50×562×25	galvanized	YKV-RP-562-600
Crossbar 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART	50×762×25	galvanized	YKV-RP-762-800
Transverse one row rail 412 SMART (set 2 pcs.)	25×412×25	galvanized	YKV-RPO-412-450
Transverse one row rail 562 SMART (set 2 pcs.)	25×562×25	galvanized	YKV-RPO-562-600
Transverse one row rail 762 SMART (set 2 pcs.)	25×762×25	galvanized	YKV-RPO-762-800
Equipment angle 450 SMART (set 2 pcs.)	30×340×30	galvanized	YKV-UO-450
Equipment angle 600 SMART (set 2 pcs.)	30×500×30	galvanized	YKV-UO-600
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=550) set 2 pcs.**	550×380×1	RAL 7035	YKV-PVA-36-45-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=550) set 2 pcs.**	550×530×1	RAL 7035	YKV-PVA-36-60-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=550) set 2 pcs.**	550×730×1	RAL 7035	YKV-PVA-36-80-550
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=100) set 2 pcs.**	100×380×1	RAL 7035	YKV-PLG-36-45-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=150) set 2 pcs.**	150×380×1	RAL 7035	YKV-PL-G-36-45-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=200) set 2 pcs.**	200×380×1	RAL 7035	YKV-PLG-36-45-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.**	300×380×1	RAL 7035	YKV-PL-G-36-45-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=400) set 2 pcs.**	400×380×1	RAL 7035	YKV-PL-G-36-45-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=50) set 2 pcs.**	50×380×1	RAL 7035	YKV-PL-G-36-45-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=500) set 2 pcs.**	500×380×1	RAL 7035	YKV-PL-G-36-45-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=600) set 2 pcs.**	600×380×1	RAL 7035	YKV-PLG-36-45-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=100) set 2 pcs.**	100×530×1	RAL 7035	YKV-PLG-36-60-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) set 2 pcs.**	150×530×1	RAL 7035	YKV-PL-G-36-60-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.**	200×530×1	RAL 7035	YKV-PLG-36-60-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) set 2 pcs.**	300×530×1	RAL 7035	YKV-PL-G-36-60-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=400) set 2 pcs.**	400×530×1	RAL 7035	YKV-PL-G-36-60-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=50) set 2 pcs.**	50×530×1	RAL 7035	YKV-PL-G-36-60-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=500) set 2 pcs.**	500×530×1	RAL 7035	YKV-PL-G-36-60-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=600) set 2 pcs.**	600×530×1	RAL 7035	YKV-PLG-36-60-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=100) set 2 pcs.**	100×730×1	RAL 7035	YKV-PLG-36-80-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=150) set 2 pcs.**	150×730×1	RAL 7035	YKV-PL-G-36-80-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) set 2 pcs.**	200×730×1	RAL 7035	YKV-PLG-36-80-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) set 2 pcs.**	300×730×1	RAL 7035	YKV-PL-G-36-80-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=400) set 2 pcs.**	400×730×1	RAL 7035	YKV-PL-G-36-80-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=50) set 2 pcs.**	50×730×1	RAL 7035	YKV-PL-G-36-80-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=500) set 2 pcs.**	500×730×1	RAL 7035	YKV-PL-G-36-80-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=600) set 2 pcs.**	600×730×1	RAL 7035	YKV-PLG-36-80-600

Name	Number of modules	Overall dimensions (HxWxD), mm	Color	Article
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.45.xx 36 TITAN (H=200) set 2 pcs.*	17	200×380×1	RAL 7035	YKV-PL-0-36-45-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.	17	300×380×1	RAL 7035	YKV-PL-0-36-45-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN set 2 pcs.*	17	150×380×1	RAL 7035	YKV-PL-0-36-45-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.*	26	200×530×1	RAL 7035	YKV-PL-0-36-60-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) set 2 pcs.*	26	300×530×1	RAL 7035	YKV-PL-0-36-60-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN set 2 pcs.*	26	150×530×1	RAL 7035	YKV-PL-0-36-60-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) set 2 pcs.*	37	200×730×1	RAL 7035	YKV-PL-0-36-80-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) set 2 pcs.*	37	300×730×1	RAL 7035	YKV-PL-0-36-80-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN set 2 pcs.*	37	150×730×1	RAL 7035	YKV-PL-0-36-80-0
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP31 TITAN*		70×450×423	RAL 7035	YKV10-TS-450-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP31 TITAN*		70×600×423	RAL 7035	YKV10-TS-600-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP31 TITAN*		70×600×573	RAL 7035	YKV10-TS-600-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP31 TITAN		70×800×423	RAL 7035	YKV10-TS-800-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP31 TITAN*		70×800×573	RAL 7035	YKV10-TS-800-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP54 TITAN*		70×450×423	RAL 7035	YKV10-TS-450-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP54 TITAN*		70×600×423	RAL 7035	YKV10-TS-600-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP54 TITAN*		70×600×573	RAL 7035	YKV10-TS-600-600-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP54 TITAN*		70×800×423	RAL 7035	YKV10-TS-800-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP54 TITAN*		70×800×573	RAL 7035	YKV10-TS-800-600-54

* Items to be ordered.

** Accessories are suitable for both metal assembling enclosures for incoming and distribution switchboards SMART and metal assembling enclosures for incoming and distribution switchboards TITAN.

Applicability table of the metal assembling enclosure for incoming and distribution switchboard SMART accessories

Accessory name	Metal assembling enclosure for incoming and distribution switchboard 1800 SMART					Metal assembling enclosure for incoming and distribution switchboard 2000 SMART					Article
	450× 450	600× 450	800× 450	600× 600	800× 600	450× 450	600× 450	800× 450	600× 600	800× 600	
Side U-profile for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx450 SMART (set 2 pcs.)	+	+	+			+	+	+			YKV-BPP-450
Side U-profile for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx600 SMART (set 2 pcs.)				+	+				+	+	YKV-BPP-600
Bracket for N/PE busbars SMART (set 2 pcs.)	+	+	+	+	+	+	+	+	+	+	YKV-K-NPE
Bracket-45 for DIN-rail SMART (set 2 pcs.)	+	+	+	+	+	+	+	+	+	+	YKV-K-DIN-45
Bracket-70 for DIN-rail SMART (set 2 pcs.)	+	+	+	+	+	+	+	+	+	+	YKV-K-DIN-70
Bracket-95 for DIN-rail SMART (set 2 pcs.)	+	+	+	+	+	+	+	+	+	+	YKV-K-DIN-95
Rail 412 for metal assembling enclosure for incoming and distribution switchboard XXXXx450xXXX SMART	+					+					YKV-L-412-450
Rail 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART		+		+			+		+		YKV-L-562-600
Rail 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART			+		+			+		+	YKV-L-762-800
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.450 SMART (set 2 pcs.)	+	+	+								YKV-PB-18-45
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.600 SMART (set 2 pcs.)				+	+						YKV-PB-18-60
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.450 SMART (set 2 pcs.)						+	+	+			YKV-PB-20-45
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.600 SMART (set 2 pcs.)									+	+	YKV-PB-20-60
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=550) set 2 pcs.	+					+					YKV-PVA-36-45-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=550) set 2 pcs.		+		+			+		+		YKV-PVA-36-60-550
VA Panel 88-35 to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=550) set 2 pcs.			+		+			+		+	YKV-PVA-36-80-550
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=50) set 2 pcs.	+					+					YKV-PL-G-36-45-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=100) set 2 pcs.	+					+					YKV-PLG-36-45-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=150) set 2 pcs.	+					+					YKV-PL-G-36-45-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=200) set 2 pcs.	+					+					YKV-PLG-36-45-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.	+					+					YKV-PL-G-36-45-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=400) set 2 pcs.	+					+					YKV-PL-G-36-45-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=500) set 2 pcs.	+					+					YKV-PL-G-36-45-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=600) set 2 pcs.	+					+					YKV-PLG-36-45-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=50) set 2 pcs.		+		+			+		+		YKV-PL-G-36-60-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=100) set 2 pcs.		+		+			+		+		YKV-PLG-36-60-100

Accessory name	Metal assembling enclosure for incoming and distribution switchboard 1800 SMART					Metal assembling enclosure for incoming and distribution switchboard 2000 SMART					Article
	450×450	600×450	800×450	600×600	800×600	450×450	600×450	800×450	600×600	800×600	
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) set 2 pcs.		+		+			+		+		YKV-PL-G-36-60-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.		+		+			+		+		YKV-PLG-36-60-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) set 2 pcs.		+		+			+		+		YKV-PL-G-36-60-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=400) set 2 pcs.		+		+			+		+		YKV-PL-G-36-60-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=500) set 2 pcs.		+		+			+		+		YKV-PL-G-36-60-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=600) set 2 pcs.		+		+			+		+		YKV-PLG-36-60-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=50) set 2 pcs.			+		+			+		+	YKV-PL-G-36-80-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=100) set 2 pcs.			+		+			+		+	YKV-PLG-36-80-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=150) set 2 pcs.			+		+			+		+	YKV-PL-G-36-80-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) set 2 pcs.			+		+			+		+	YKV-PLG-36-80-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) set 2 pcs.			+		+			+		+	YKV-PL-G-36-80-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=400) set 2 pcs.			+		+			+		+	YKV-PL-G-36-80-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=500) set 2 pcs.			+		+			+		+	YKV-PL-G-36-80-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=600) set 2 pcs.			+		+			+		+	YKV-PLG-36-80-600
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN set 2 pcs.	+					+					YKV-PL-0-36-45-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=200) set 2 pcs.	+					+					YKV-PL-0-36-45-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H=300) set 2 pcs.	+					+					YKV-PL-0-36-45-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN set 2 pcs.		+		+			+		+		YKV-PL-0-36-60-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) set 2 pcs.		+		+			+		+		YKV-PL-0-36-60-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.60.xx 36 TITAN (H=300) set 2 pcs.		+		+			+		+		YKV-PL-0-36-60-300
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN set 2 pcs.			+		+			+		+	YKV-PL-0-36-80-0
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.80.xx 36 TITAN (H=200) set 2 pcs.			+		+			+		+	YKV-PL-0-36-80-200
LMA Panel to metal assembling enclosure for incoming and distribution switchboard-x x.80.xx 36 TITAN (H=300) set 2 pcs.			+		+			+		+	YKV-PL-0-36-80-300
Mounting panel 1650×412 TITAN	+										YKV-PM-1650-412
Mounting panel 1650×562 SMART		+		+							YKV-PM-1650-562
Mounting panel 1650×762 SMART			+		+						YKV-PM-1650-762
Mounting panel 1850×412 SMART						+					YKV-PM-1850-412
Mounting panel 1850×562 SMART							+		+		YKV-PM-1850-562
Mounting panel 1850×762 SMART								+		+	YKV-PM-1850-762
Mounting panel 250×412 SMART (set 2 pcs.)	+					+					YKV-PM-250-412
Mounting panel 250×562 SMART (set 2 pcs.)		+		+			+		+		YKV-PM-250-562
Mounting panel 250×762 SMART (set 2 pcs.)			+		+			+		+	YKV-PM-250-762
Mounting panel 500×412 SMART (set 2 pcs.)	+					+					YKV-PM-500-412
Mounting panel 500×562 SMART (set 2 pcs.)		+		+			+		+		YKV-PM-500-562
Mounting panel 500×762 SMART (set 2 pcs.)			+		+			+		+	YKV-PM-500-762
Operative rotary panel SMART (H=300) 450	+					+					YKV-POP-300-450
Operative rotary panel SMART (H=300) 600		+		+			+		+		YKV-POP-300-600
Operative rotary panel SMART (H=300) 800			+		+			+		+	YKV-POP-300-800
Operative rotary panel SMART (H=600) 450	+					+					YKV-POP-600-450
Operative rotary panel SMART (H=600) 600		+		+			+		+		YKV-POP-600-600
Operative rotary panel SMART (H=600) 800			+		+			+		+	YKV-POP-600-800
Partition 450x290 for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×450 SMART	+	+	+			+	+	+			YKV-P-450-290
Partition 450x440 for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART				+	+				+	+	YKV-P-450-440
Installation plate SMART (set 2 pcs.)	+	+	+	+	+	+	+	+	+	+	YKV-PU
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×450 (H = 340) SMART	+					+					YKV-P-450-450
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 140) SMART	+					+					YKV-P-450-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 200) SMART	+					+					YKV-P-450-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H = 290) SMART	+					+					YKV-P-450-B290
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×450 (H = 340) SMART		+					+				YKV-P-600-450

Accessory name	Metal assembling enclosure for incoming and distribution switchboard 1800 SMART					Metal assembling enclosure for incoming and distribution switchboard 2000 SMART					Article
	450× 450	600× 450	800× 450	600× 600	800× 600	450× 450	600× 450	800× 450	600× 600	800× 600	
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXX×600×600 (H = 490) SMART				+					+		YKV-P-600-600
Transverse profile 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	+					+					YKV-PP-412-450
Transverse profile 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	+					+					YKV-PP-412-450
Transverse profile 562 for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART		+		+			+		+		YKV-PP-562-600
Transverse profile 762 for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART			+		+			+		+	YKV-PP-762-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXXx450xXXX (H=600) SMART	+										YKV-RAMA2-600-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=600) SMART		+		+							YKV-RAMA2-600-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H=600) SMART			+		+						YKV-RAMA2-600-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1100) SMART	+										YKV-RAMA1-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1100) SMART		+		+							YKV-RAMA1-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1100) SMART			+		+						YKV-RAMA1-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1300) SMART						+					YKV-RAMA1-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1300) SMART							+		+		YKV-RAMA1-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1300) SMART								+		+	YKV-RAMA1-2000-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1750) SMART	+										YKV-RAMA-1800-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1750) SMART		+		+							YKV-RAMA-1800-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1750) SMART			+		+						YKV-RAMA-1800-800
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1950) SMART						+					YKV-RAMA-2000-450
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1950) SMART							+		+		YKV-RAMA-2000-600
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1950) SMART								+		+	YKV-RAMA-2000-800
Side rail for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×x450 SMART (set 2 pcs.)	+	+	+			+	+	+			YKV-RB-450
Side rail for metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART (set 2 pcs.)				+	+				+	+	YKV-RB-600
Crossbar 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	+					+					YKV-RP-412-450
Crossbar 562 for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART		+		+			+		+		YKV-RP-562-600
Crossbar 762 for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART			+		+			+		+	YKV-RP-762-800
Transverse double row rail 412 SMART (set 2 pcs.)	+					+					YKV-RPD-412-450
Transverse double row rail 562 SMART (set 2 pcs.)		+		+			+		+		YKV-RPD-562-600
Transverse double row rail 762 SMART (set 2 pcs.)			+		+			+		+	YKV-RPD-762-800
Transverse one row rail 412 SMART (set 2 pcs.)	+					+					YKV-RPO-412-450
Transverse one row rail 562 SMART (set 2 pcs.)		+		+			+		+		YKV-RPO-562-600
Transverse one row rail 762 SMART (set 2 pcs.)			+		+			+		+	YKV-RPO-762-800
Equipment angle 450 SMART (set 2 pcs.)	+	+	+			+	+	+			YKV-UO-450
Equipment angle 600 SMART (set 2 pcs.)				+	+				+	+	YKV-UO-600
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP31 TITAN	+					+					YKV10-TS-450-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP31 TITAN		+					+				YKV10-TS-600-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP31 TITAN				+					+		YKV10-TS-600-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP31 TITAN			+					+			YKV10-TS-800-450-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP31 TITAN					+					+	YKV10-TS-800-600-31
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP54 TITAN	+					+					YKV10-TS-450-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP54 TITAN		+					+				YKV10-TS-600-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP54 TITAN				+					+		YKV10-TS-600-600-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP54 TITAN			+					+			YKV10-TS-800-450-54
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP54 TITAN					+					+	YKV10-TS-800-600-54

Metallic shells

SMART

IEK

SMART
Metal assembling enclosures for main distribution switchboards
IP31 for currents up to 1600 A

Metal assembling enclosures for main distribution switchboard SMART IEK® are designed for assembly on their basis of main switchboards for currents up to 1600 A, using air-insulated circuit breakers, molded case circuit breakers and modular power equipment.
The metal assembling enclosures for main distribution switchboard s are designed to receive, distribute and protect branch lines in three-phase AC 400/230 V.

Advantages

- High manufacturability and ease of assembly.
- Possibility of installing blanking plates.
- Convenience of installation, transportation and storage.
- Wide range of accessories, the ability to divide the space into compartments.
- Possibility of installing accessories at different depths (20 mm steps), widths (25 mm steps) and heights (25 mm steps).
- Improved enclosure design provides more efficient use of workspace.
- Removable side panels provide easy access to equipment during installation.

- High quality coating.
- Reversible door.
- Profile on the door for the installation of lighting equipment.
- Increased corrosion resistance.
- Possibility of connecting enclosures into blocks.
- High level of electrical safety.
- Pocket for documents.
- Ground studs on the door.
- Certificate of conformity.

Specifications

Enclosure metal thickness, mm	2
Rated current, A	up to 1600
Cover type	powder, shagreen
Color	RAL 7035
Degree of protection	IP31
Door opening angle	120°
Apparatus type	any
Climatic modification	NF3
Installation type	floor

Design features
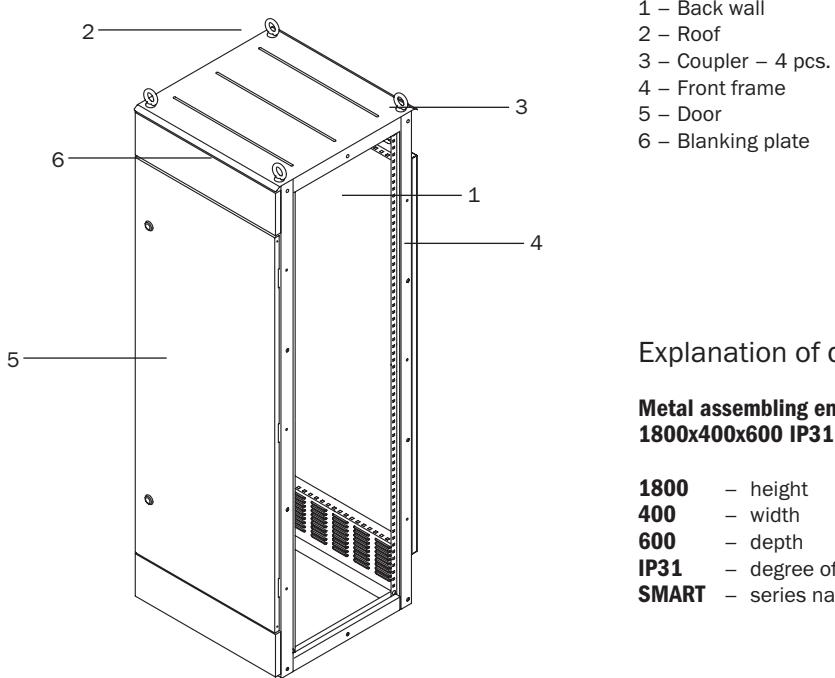
1 – Back wall
2 – Roof
3 – Coupler – 4 pcs.
4 – Front frame
5 – Door
6 – Blanking plate

Explanation of designations

Metal assembling enclosure for main distribution switchboard 1800x400x600 IP31 NF3 SMART IEK

1800	–	height
400	–	width
600	–	depth
IP31	–	degree of protection
SMART	–	series name

Assortment

Name	Weight, kg	Article
Metal assembling enclosure for main distribution switchboard 2000×600×600 IP31 NF3 SMART	55	YKM52-2000-600-600-31
Metal assembling enclosure for main distribution switchboard 2000×800×600 IP31 NF3 SMART	60	YKM52-2000-800-600-31
Metal assembling enclosure for main distribution switchboard 1800×600×600 IP31 NF3 SMART	50	YKM52-1800-600-600-31
Metal assembling enclosure for main distribution switchboard 1800×800×600 IP31 NF3 SMART	55	YKM52-1800-800-600-31
Metal assembling enclosure for main distribution switchboard 2000×600×800 IP31 NF3 SMART	60	YKM52-2000-600-800-31
Metal assembling enclosure for main distribution switchboard 2000×800×800 IP31 NF3 SMART	65	YKM52-2000-800-800-31
Metal assembling enclosure for main distribution switchboard 1800×600×800 IP31 NF3 SMART	55	YKM52-1800-600-800-31
Metal assembling enclosure for main distribution switchboard 1800×800×800 IP31 NF3 SMART	60	YKM52-1800-800-800-31
Metal assembling enclosure for main distribution switchboard 2000×400×600 IP31 NF3 SMART	45	YKM52-2000-400-600-31
Metal assembling enclosure for main distribution switchboard 1800×400×600 IP31 NF3 SMART	40	YKM52-1800-400-600-31
Metal assembling enclosure for main distribution switchboard 2000×400×800 IP31 NF3 SMART	48	YKM52-2000-400-800-31
Metal assembling enclosure for main distribution switchboard 1800×400×800 IP31 NF3 SMART	45	YKM52-1800-400-800-31

Accessories

Name	Overall dimensions (H×W×D), mm	Color	Article
Side panel for metal assembling enclosure for main distribution switchboard 1800.XXX.800 IP31 SMART (2pcs/set)	1797×766×10	RAL 7035	YKV-PB-18-80-31
Side panel for metal assembling enclosure for main distribution switchboard 2000.XXX.800 IP31 SMART (2pcs/set)	1997×766×10	RAL 7035	YKV-PB-20-80-31
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800.XXX.600 SMART (2 pcs./set)	1800×570×40	RAL 7035	YKV-PB-18-60
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000.XXX.600 SMART (2 pcs./set)	2000×570×40	RAL 7035	YKV-PB-20-60
Partition 450x800 for metal assembling enclosure for main distribution switchboard XXXXxXXXx800 SMART	449×639×8	galvanized	YKV-P-450-800
Partition 450x440 for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx600 SMART	464×457×36	galvanized	YKV-P-450-440
Transverse profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard XXXX.600.XXX	35×562×50	galvanized	YKV-PP-600-600
Transverse profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard XXXX.800.XXX IEK	35×762×50	galvanized	YKV-PP-800-800
Transverse profile 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART	565×56×39	galvanized	YKV-PP-562-600
Transverse profile 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART	765×56×39	galvanized	YKV-PP-762-800
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 1800x600xXXX SMART	1400×40×30	RAL 7035	YKV-RAMA-1800-600-S
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 1800x800xXXX SMART	1400×40×30	RAL 7035	YKV-RAMA-1800-800-S
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 2000x600xXXX SMART	1600×40×30	RAL 7035	YKV-RAMA-2000-600-S
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 2000x800xXXX SMART	1600×40×30	RAL 7035	YKV-RAMA-2000-800-S
Side rail for metal assembling enclosure for main distribution switchboard XXXXxXXXx800 SMART (2 pcs/set)	716×226×221	galvanized	YKV-RB-800
Side rail for metal assembling enclosure for incoming and distribution switchboard XXXXxXXXx600 SMART (2 pcs/set)	516×226×221	galvanized	YKV-RB-600
Traverse for metal assembling enclosure for main distribution switchboard XXXXxXXXx600 SMART (2 pcs/set)	39×564×12	galvanized	YKV-BPP-600-S
Traverse for metal assembling enclosure for main distribution switchboard XXXXxXXXx800 SMART (2 pcs/set)	39×764×12	galvanized	YKV-BPP-800-S
Base of metal assembling enclosure for main distribution switchboard xx.40.60 IP31 SMART	400×575×70	RAL 7035	YKV10-TS-400-600-31-S
Base of metal assembling enclosure for main distribution switchboard xx.40.80 IP31 SMART	400×775×70	RAL 7035	YKV10-TS-400-800-31-S
Base of metal assembling enclosure for main distribution switchboard xx.60.60 IP31 SMART IEK	600×575×70	RAL 7035	YKV10-TS-600-600-31-S
Base of metal assembling enclosure for main distribution switchboard xx.60.80 IP31 SMART	600×775×70	RAL 7035	YKV10-TS-600-800-31-S
Base of metal assembling enclosure for main distribution switchboard xx.80.60 IP31 SMART	800×575×70	RAL 7035	YKV10-TS-800-600-31-S
Base of metal assembling enclosure for main distribution switchboard xx.80.80 IP31 SMART	800×775×70	RAL 7035	YKV10-TS-800-800-31-S
Bracket for N/PE busbars SMART (2 pcs/set)	124×30×75	galvanized	YKV-K-NPE
Bracket-45 for DIN-rail SMART (2 pcs/set)	40×39×45	galvanized	YKV-K-DIN-45
Bracket-70 for DIN-rail SMART (2 pcs/set)	65×39×70	galvanized	YKV-K-DIN-70
Bracket-95 for DIN-rail SMART (2 pcs/set)	65×39×95	galvanized	YKV-K-DIN-95
Rail 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART	50×562×25	galvanized	YKV-L-562-600
Rail 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART	50×762×25	galvanized	YKV-L-762-800
Mounting panel 1650x562 SMART	1650×562×25	galvanized	YKV-PM-1650-562
Mounting panel 1650x762 SMART	1650×762×25	galvanized	YKV-PM-1650-762
Mounting panel 1850x562 SMART	1850×562×25	galvanized	YKV-PM-1850-562
Mounting panel 1850x762 SMART	1850×762×25	galvanized	YKV-PM-1850-762
Mounting panel 250x562 SMART (2 pcs/set)	562×250×25	galvanized	YKV-PM-250-562
Mounting panel 250x762 SMART (2 pcs/set)	762×250×25	galvanized	YKV-PM-250-762
Mounting panel 500x562 SMART (2 pcs/set)	562×500×25	galvanized	YKV-PM-500-562
Mounting panel 500x762 SMART (2 pcs/set)	762×500×25	galvanized	YKV-PM-500-762
Operative rotary panel SMART (H=300) 600	300×530×23	RAL 7035	YKV-POP-300-600
Operative rotary panel SMART (H=300) 800	300×730×23	RAL 7035	YKV-POP-300-800
Operative rotary panel SMART (H=600) 600	600×530×23	RAL 7035	YKV-POP-600-600
Operative rotary panel SMART (H=600) 800	600×730×23	RAL 7035	YKV-POP-600-800

Metallic shells

SMART

169

Name	Overall dimensions (H×W×D), mm	Color	Article
Installation plate SMART (set 2 pcs.)	150×130×1,5	galvanized	YKV-PU
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx600x600 (H=490) SMART	8×560×490	galvanized	YKV-P-600-600
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX (H=140) SMART	8×560×140	galvanized	YKV-P-600-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX (H=200) SMART	8×560×200	galvanized	YKV-P-600-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX (H=290) SMART	8×560×290	galvanized	YKV-P-600-B290
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx800x600 (H=490) SMART	8×760×490	galvanized	YKV-P-800-600
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX (H=140) SMART	8×760×140	galvanized	YKV-P-800-B140
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX (H=200) SMART	8×760×200	galvanized	YKV-P-800-B200
Shelf for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX (H=290) SMART	8×760×290	galvanized	YKV-P-800-B290
Crossbar 562 for metal assembling enclosure for incoming and distribution switchboard XXXXx600xXXX SMART	565×56×29	galvanized	YKV-RP-562-600
Crossbar 762 for metal assembling enclosure for incoming and distribution switchboard XXXXx800xXXX SMART	765×56×29	galvanized	YKV-RP-762-800
Transverse double row rail 562 SMART (2 pcs/set)	565×56×31	galvanized	YKV-RPD-562-600
Transverse double row rail 762 SMART (2 pcs/set)	765×56×31	galvanized	YKV-RPD-762-800
Transverse one row rail 562 SMART (2 pcs/set)	565×31×31	galvanized	YKV-RPO-562-600
Transverse one row rail 762 SMART (2 pcs/set)	765×31×31	galvanized	YKV-RPO-762-800
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=100) (2 pcs/set)	100×530×1	RAL 7035	YKV-PLG-36-60-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) (2 pcs/set)	150×530×1	RAL 7035	YKV-PL-G-36-60-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) (2 pcs/set)	200×530×1	RAL 7035	YKV-PLG-36-60-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) (2 pcs/set)	300×530×1	RAL 7035	YKV-PL-G-36-60-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=400) (2 pcs/set)	400×530×1	RAL 7035	YKV-PL-G-36-60-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=50) (2 pcs/set)	50×530×1	RAL 7035	YKV-PL-G-36-60-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=500) (2 pcs/set)	500×530×1	RAL 7035	YKV-PL-G-36-60-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=600) (2 pcs/set)	600×530×1	RAL 7035	YKV-PLG-36-60-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=100) (2 pcs/set)	100×530×1	RAL 7035	YKV-PLG-36-80-100
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=150) (2 pcs/set)	150×730×1	RAL 7035	YKV-PL-G-36-80-2-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) (2 pcs/set)	200×730×1	RAL 7035	YKV-PLG-36-80-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) (2 pcs/set)	300×730×1	RAL 7035	YKV-PL-G-36-80-3-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=400) (2 pcs/set)	400×730×1	RAL 7035	YKV-PL-G-36-80-4-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=50) (2 pcs/set)	50×730×1	RAL 7035	YKV-PL-G-36-80-1-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=500) (2 pcs/set)	500×730×1	RAL 7035	YKV-PL-G-36-80-5-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=600) (2 pcs/set)	600×730×1	RAL 7035	YKV-PLG-36-80-600
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=150) (2 pcs/set)	150×530×1	RAL 7035	YKV-PL-0-36-60-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=200) (2 pcs/set)	200×530×1	RAL 7035	YKV-PL-0-36-60-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H=300) (2 pcs/set)	300×530×1	RAL 7035	YKV-PL-0-36-60-300
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=150) (2 pcs/set)	150×730×1	RAL 7035	YKV-PL-0-36-80-0
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=200) (2 pcs/set)	200×730×1	RAL 7035	YKV-PL-0-36-80-200
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H=300) (2 pcs/set)	300×730×1	RAL 7035	YKV-PL-0-36-80-300

Large-size dismountable metal enclosures

Used for the assembly of low-voltage complete devices: metal assembling enclosure for main distribution switchboards,metal assembling enclosure for incoming and distribution switchboards, control and automation cabinets.

They have a collapsible absolutely symmetrical frame made of a perforated profile, to which the door, side panels, rear wall, roof and base are attached. Inside the enclosure, you can install various components: mounting panels, support rails, strips, angles, DIN rails, etc. for the subsequent attachment to them of electrical devices, busbars, electrical products and accessories.

Advantages

- Universal design.
- Moving the door to either side.
- Joining enclosures into blocks.
- Increased corrosion resistance.
- High quality outer cover.
- A set of additional accessories.
- High manufacturability and ease of assembly.
- Convenience of installation, transportation and storage.
- High level of electrical safety.

Specifications

Installation type	floor
Rated current	630 A
Metal thickness	1.4 mm
Cover type	powder, shagreen
Color	RAL 7035
Degree of protection	IP31
Door opening angle	160°
Apparatus type	any

Design features
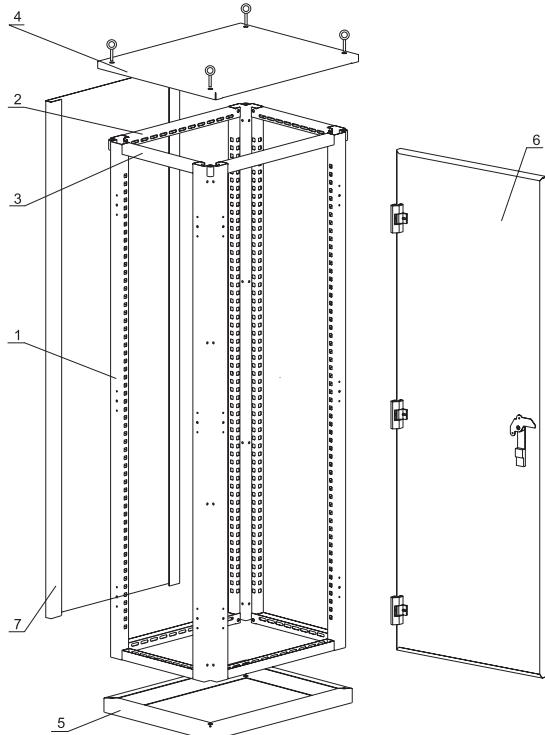
1 – Vertical galvanized racks – 4 pcs.
2 – Front braces – 4 pcs.
3 – Side braces – 4 pcs.
4 – Roof – 1 pc.
5 – Base – 1 pc.
6 – Door – 1 pc.
7 – Back wall – 1 pc.

Completeness of individual elements (places)

Place 1

Vertical racks.

Place 2

Roof, base, side and front braces, lock, hinges, hardware, data sheet and assembly instructions.

Place 3

Door, back wall.

Explanation of designations

Large-size dismountable metal enclosure 16.6.4-1-36 NF3 IP31

Large-size dismountable metal enclosure –
    large-size dismountable metal enclosure
16 – height, dm
6 – width, dm
4 – depth, dm
1 – modification number
3 – type of coating
    3 – EPR / shagreen
6 – paint color
    6 – RAL 7035 ▯
NF3 – climatic version
IP31 – degree of protection

Side panel 16.4-36

Side panel 16.4 – standard size
    16 – height, dm
    4 – depth, dm
3 – type of coating
    3 – EPR / shagreen
6 – paint color
    6 – RAL 7035 ▯

Metallic shells

Assortment

Name	Article
Large-size dismountable metal case 16.x.x. Place 1	YKM30-M1-16
Large-size dismountable metal case18.x.x. Place 1	YKM30-M1-18
Large-size dismountable metal case 20.x.x. Place 1	YKM30-M1-20
Large-size dismountable metal case xx.6.4-2 36 NF3 IP31 Place 2	YKM30-M2-64-36
Large-size dismountable metal case x.6.6-2 36 NF3 IP31 Place 2	YKM30-M2-66-36
Large-size dismountable metal case xx.6.8-2 36 NF3 IP31 Place 2	YKM30-M2-68-36
Large-size dismountable metal case xx.8.4-2 36 NF3 IP31 Place 2	YKM30-M2-84-36
Large-size dismountable metal case xx.8.6-2 36 NF3 IP31 Place 2	YKM30-M2-86-36
Large-size dismountable metal case x.8.8-2 36 NF3 IP31 Place 2	YKM30-M2-88-36
Large-size dismountable metal case 16.6.x-2 36 NF3 IP31 Place 3	YKM30-M3-166-36
Large-size dismountable metal case 16.8.x-2 36 NF3 IP31 Place 3	YKM30-M3-168-36
Large-size dismountable metal case 18.6.x-2 36 NF3 IP31 Place 3	YKM30-M3-186-36
Large-size dismountable metal case 18.8.x-2 36 NF3 IP31 Place 3	YKM30-M3-188-36
Large-size dismountable metal case 20.6.x-2 36 NF3 IP31 Place 3	YKM30-M3-206-36
Large-size dismountable metal case 20.8.x-2 36 NF3 IP31 Place 3	YKM30-M3-208-36

Large-size dismountable metal case place selection table

Enclosure/ Elements	Place 1			Place 2						Place 3					
	Large-size dismountable metal enclosure 16.x.x.	Large-size dismountable metal enclosure 18.x.x.	Large-size dismountable metal enclosure 20.x.x.	Large-size dismountable metal enclosure xx.6.4-2	Large-size dismountable metal case xx.6.6-2	Large-size dismountable metal case xx.6.8-2	Large-size dismountable metal case xx.8.4-2	Large-size dismountable metal case xx.8.6-2	Large-size dismountable metal case xx.8.8-2	Large-size dismountable metal case 16.6.x-2	Large-size dismountable metal case 16.8.x-2	Large-size dismountable metal case 18.6.x-2	Large-size dismountable metal enclosure 18.8.x-2	Large-size dismountable metal enclosure 20.6.x-2	Large-size dismountable metal enclosure 20.8.x-2
Large-size dismountable metal enclosure 16.6.4-2	1			1						1					
Large-size dismountable metal enclosure 16.6.6-2	1				1					1					
Large-size dismountable metal enclosure 16.6.8-2	1					1				1					
Large-size dismountable metal enclosure 16.8.4-2	1						1				1				
Large-size dismountable metal enclosure 16.8.6-2	1							1			1				
Large-size dismountable metal enclosure 16.8.8-2	1								1		1				
Large-size dismountable metal enclosure 18.6.4-2		1		1								1			
Large-size dismountable metal enclosure 18.6.6-2		1			1							1			
Large-size dismountable metal enclosure 18.6.8-2		1				1						1			
Large-size dismountable metal enclosure 18.8.4-2		1					1						1		
Large-size dismountable metal enclosure 18.8.6-2		1						1					1		
Large-size dismountable metal enclosure 18.8.8-2		1							1				1		
Large-size dismountable metal enclosure 20.6.4-2			1	1										1	
Large-size dismountable metal enclosure 20.6.6-2			1		1									1	
Large-size dismountable metal enclosure 20.6.8-2			1			1								1	
Large-size dismountable metal enclosure 20.8.4-2			1				1								1
Large-size dismountable metal enclosure 20.8.6-2			1					1							1
Large-size dismountable metal enclosure 20.8.8-2			1						1						1

Accessories for the large-size dismountable metal enclosure*

vertical angle
angle mounting panel
support rail
Mounting panel
bar
connecting insert
side panel
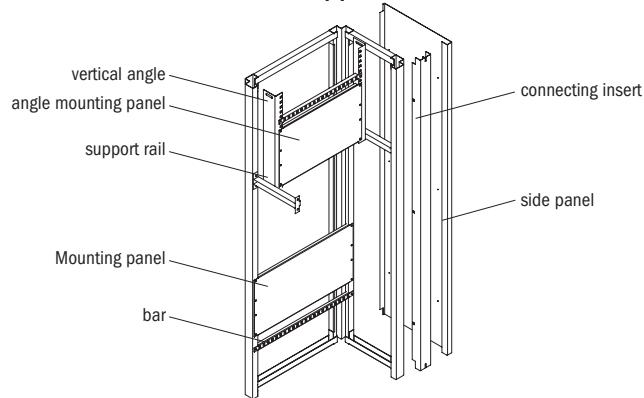
Name	Purpose	Installation place	Overall dimensions, mm	Color	Completeness		Article
					unit of measurement	pcs.	
Side panel 16.4-36	Closes the side openings of the large-size dismountable metal enclosure, providing electrical safety and preventing the penetration of unauthorized persons into the board	On the outer sides of the enclosure – onvertical racks. When mounting several enclosures in a single unit– on vertical racks from outer lateral sides of the unit	1600×400	RAL 7035	set	2	YKM30-BP-16-04-36
Side panel 16.6-36			1600×600	RAL 7035	set	2	YKM30-BP-16-06-36
Side panel 16.8-36			1600×800	RAL 7035	set	2	YKM30-BP-16-08-36
Side panel 18.4-36			1800×400	RAL 7035	set	2	YKM30-BP-18-04-36
Side panel 18.6-36			1800×600	RAL 7035	set	2	YKM30-BP-18-06-36
Side panel 18.8-36			1800×800	RAL 7035	set	2	YKM30-BP-18-08-36
Side panel 20.4-36			2000×400	RAL 7035	set	2	YKM30-BP-20-04-36
Side panel 20.6-36			2000×600	RAL 7035	set	2	YKM30-BP-20-06-36
Side panel 20.8-36			2000×800	RAL 7035	set	2	YKM30-BP-20-08-36
Mounting panel 300×590	Designed for installation of various electrical devices	Inside the enclosure – on vertical racks	300×590	galvanized	set	2	YKM30-MP-030-059
Mounting panel 300×790			300×790	galvanized	set	2	YKM30-MP-030-079
Mounting panel 500×590			500×590	galvanized	set	2	YKM30-MP-050-059
Mounting panel 500×790			500×790	galvanized	set	2	YKM30-MP-050-079
Mounting panel 300×490 on angles	Designed for installation of various electrical devices	Inside the enclosure – on vertical angles (to provide the possibility of adjusting the position of the panel in the depth of the enclosure)	300×490	galvanized	set	2	YKM30-MPU-030-049
Mounting panel 300×690 on angles			300×690	galvanized	set	2	YKM30-MPU-030-069
Mounting panel 500×490 on angles			500×490	galvanized	set	2	YKM30-MPU-050-049
Mounting panel 500×690 on angles			500×690	galvanized	set	2	YKM30-MPU-050-069
Bar 25×390	Used for the installation of single electrical devices or several devices with the same mounting height overall	Inside the enclosure – on vertical racks or vertical angles (to provide the possibility of adjusting the position of the panel in the depth of the enclosure)	25×390	galvanized	set	2	YKM30-PL-039
Bar 25×590			25×590	galvanized	set	2	YKM30-PL-059
Bar 25×790			25×790	galvanized	set	2	YKM30-PL-079
Jumper 1600-36	Applicable for joining multiple enclosures into a single unit	From the outer front side of the enclosures, between the attaching vertical racks	1600×63×48	RAL 7035	set	1	YKM30-SV-1600-36
Jumper 1800-36			1800×63×48	RAL 7035	set	1	YKM30-SV-1800-36
Jumper 2000-36			2000×63×48	RAL 7035	set	1	YKM30-SV-2000-36
Vertical angle 490	Used for fastening mounting panels and bars (to provide the possibility to adjust the position of elements along the depth of the enclosure)	Inside the enclosure on the side braces or support rails	490×42×52	galvanized	set	2	YKM30-UV-0490
Vertical angle 1590			1590×42×52	galvanized	set	2	YKM30-UV-1590
Vertical angle 1790			1790×42×52	galvanized	set	2	YKM30-UV-1790
Vertical angle 1990			1990×42×52	galvanized	set	2	YKM30-UV-1990
Support rail 250	Used when installing a vertical angle 490mm to provide the possibility of adjusting its position along the depth of the enclosure	Inside the enclosure, between the lateral vertical racks	80×250×24	galvanized	set	2	YKM30-RO-250
Support rail 450			80×450×24	galvanized	set	2	YKM30-RO-450
Support rail 650			80×650×24	galvanized		2	YKM30-RO-650

Metallic shells

* Accessories must be ordered separately. The set of all accessories includes hardware for their installation.

Metal enclosures for distribution points

Scope of application – industrial and production facilities.

Used for the assembly of distribution points (series PR11), intended for receiving and distributing electricity, protecting electrical installations with a voltage of 400/230 V during overloads and short-circuit currents, as well as infrequent (no more than 6 per hour) switching on and off of electrical circuits.

Advantages

- Universal design.
- Increased corrosion resistance.
- High quality coating.
- Set of accessories.
- Electrical safety signs set.
- High manufacturability and ease of assembly.
- Ease of installation.
- High level of electrical safety.
- Certificate of conformity.
- Aesthetics and design.

Specifications

Installation type	wall-mounted
Rated current	up to 630 A
Metal thickness	1.0-1.4 mm
Cover type	powder, shagreen
Color	RAL 7035
Degree of protection	IP31, IP54
Door opening angle	105°
Climatic modification	NF3 for IP31, N2 for IP54

Description of the structure

Solid welded enclosure, inside of which there are an operational panel, a panel for an input device, DIN rails for group electrical devices and elements for fixing power buses, as well as N and PE buses.

The enclosure door is locked. In IP54 enclosures, a two-component sealant seal is applied to the door.

There are three sizes depending on the enclosure size.

Recommended devices for the assembly of electrical panels:
- as an input – IEK® circuit breakers, VA88 series with electromagnetic and thermal releases for rated currents of 160, 250, 400, 630 A;
- on output lines – automatic circuit breakers VA47-100 for rated currents from 10 to 100 A.

In the enclosures of modification "3" there are two main differences that make these enclosures more convenient to use and versatile.

Firstly, it became possible to enter conductors from above, which significantly expands the possibilities of application and ease of use. Input is carried out using an additional input panel with a hermetically sealed polyurethane foam seal (IP54 version) (Fig. 1).

Secondly, in the enclosures, it is possible to install VA88 series automation of size 32 and 33 on output lines using additional mounting adapter panels.

The panels are perforated for the installation of automation without the use of additional tools.

These modifications greatly simplify the assembly and further operation of the panels.

Fig. 1

Component parts

The enclosure complete with an operational panel – 1pc.
Electrical safety signs – 3 pcs.
Assembly instruction – 1 pc.
Data sheet – 1 pc.
Marking plates – 2 pcs.

Explanation of designations

Metal enclosure for distribution points-1-0 36 NF3 IP31

1 – enclosure size
0 – modification number
3 – type of coating
    3 – EPR / shagreen
6 – paint color
    6 – RAL 7035
NF3 – climatic version
IP31 – degree of protection

Assortment

	Name	Specifications	Article
	Metal enclosure for distribution points -1-0 36 NF3 IP31	Dimensions, mm: 900×400×183. Number of inputs: 1 holes 80×220 mm (bottom). Weight: 15 Kg	YKM14-01-31
	Metal enclosure for distribution points -1-0 N2 IP54	Dimensions, mm: 900×400×183. Number of inputs: 1 holes 80x220 mm (bottom). Weight: 15.3 kg	YKM14-01-54
	Metal enclosure for distribution points -2-3 36 NF3 IP31	Dimensions, mm: 1157×650×180. Number of inputs: 2 holes 80×220 mm (bottom), 1 hole 80×220 mm (top). Weight: 35 Kg	YKM14-02-3-31
	Metal enclosure for distribution points -2-3 N2 IP54	Dimensions, mm: 1157×650×180. Number of inputs: 2 holes 80×220 mm (bottom), 1 hole 80×220 mm (top). Weight: 35.2 kg	YKM14-02-3-54
	Metal enclosure for distribution points -3-3 36 NF3 IP31	Dimensions, mm: 1317×650×180. Number of inputs: 2 holes 80×220 mm (bottom), 1 hole 80×220 mm (top). Weight: 39.1 kg	YKM14-03-3-31
	Metal enclosure for distribution points -3-3 N2 IP54	Dimensions, mm: 1317×650×180. Number of inputs: 2 holes 80×220 mm (bottom), 1 hole 80×220 mm (top). Weight: 39.3 kg	YKM14-03-3-54

Metallic shells

Accessories for metal enclosures for distribution points*

Name	Purpose	Bus size, mm					Article
Power bus kit		Length L1	L2	L3	Thickness	Width	
Set of buses (copper, size 1) for the metal enclosure for distribution points	For power transmission from an input apparatus to group ones	242	242	242	3	20	YKM10-SS-01
Set of buses (copper, size 2) for the metal enclosure for distribution points		377	404	431	3	20	YKM10-SS-02
Set of buses (copper, size 3) for the metal enclosure for distribution points		539	566	593	3	20	YKM10-SS-03
Set of buses (copper, size 4) for the metal enclosure for distribution points		341	368	395	4	30	YKM10-SS-04
Set of buses (copper, size 5) for the metal enclosure for distribution points		503	530	361	4	30	YKM10-SS-05
Set of buses (copper, size 6) for the metal enclosure for distribution points		334	361	388	5	50	YKM10-SS-06
Set of buses (copper, size 7) for the metal enclosure for distribution points		496	523	550	5	50	YKM10-SS-07
Set of N and PE buses		N	PE		Thickness	Width	Article
Set of N and PE buses (copper, size 1) for the metal enclosure for distribution points	For connection of a working neutral and neutral protective conductor	288	288		3	20	YKM10-NP-01
Set of N and PE buses (copper, size 2) for the metal enclosure for distribution points		418	418		3	20	YKM10-NP-02
Set of N and PE buses (copper, size 3) for the metal enclosure for distribution points		418	418		4	30	YKM10-NP-03
Set of N and PE buses (copper, size 4) for the metal enclosure for distribution points		418	418		5	50	YKM10-NP-04
Panel for installation of VA88-32 (33) for metal enclosure for distribution points-2	For installation of VA 88 circuit breakers						YKI10-02-31
Panel for installation of VA88-32 (33) for metal enclosure for distribution points-3	For installation of VA 88 circuit breakers						YKI10-03-31

* The delivery set of the busbars includes all the necessary fasteners for their installation
in the metal enclosure for distribution points and for connecting external conductors,
as well as SM insulators.

Metallic shells

Metal assembling enclosures with one-side maintenance possibility

The metal assembling enclosure with one-side maintenance possibility are designed for completing switchgears with a voltage of 230/400 V of three-phase alternating current with a frequency of 50 Hz in networks with a solid-grounded neutral in four-wire and five-wire versions, serving for the reception and distribution of electrical energy, protection of outgoing lines from overloads and short-circuit currents.

The metal assembling enclosures with one-side maintenance possibility represent a collapsible frame made of vertical racks, vertical angles, side and front braces, to which the door, side panels, roof are attached (side panels and roof should be ordered separately).

Advantages

- Increased corrosion resistance.
- Wide range.
- High quality coating.
- Unified parts simplify the assembly of both a typical low-voltage complete device and a non-standard one.
- Moving the door to either side.
- Set of accessories.
- The prefabricated structure of the panel enclosure saves space in transport and warehouse.
- Wide racks allow installing signaling and control equipment on their front surface.
- High manufacturability and ease of assembly.
- Convenience of installation, transportation and storage.
- Joining enclosures into units.

Specifications

Installation type	floor
Rated current	up to 2500 A
Rated voltage	0.4 kV
Metal thickness	2.0 mm
Cover type	powder
Color	RAL 7035
Degree of protection	IP20 (from the front side); IP00
Door opening angle	105°
Climatic modification	NF3

Design features
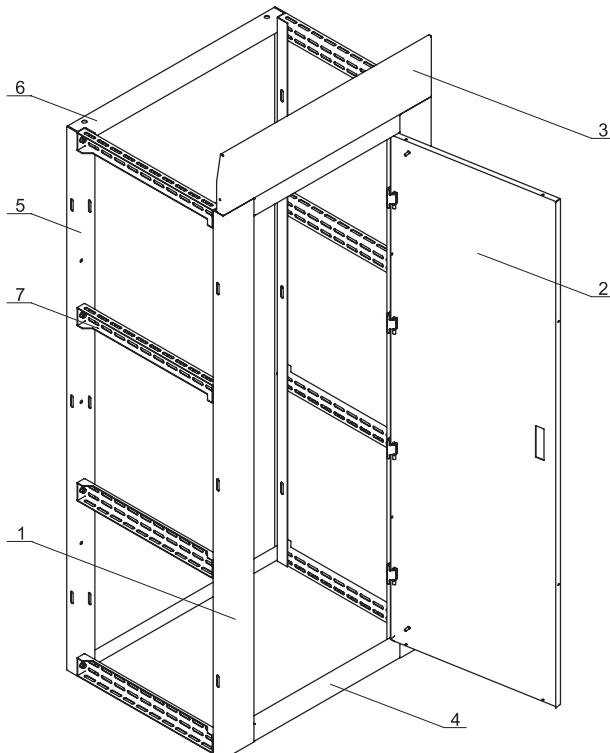
1 – Vertical rack
2 – Door
3 – Front panel (comes with the enclosure)
4 – Front coupler
5 – Vertical angle
6 – Horizontal angle
7 – Side coupler

Use of flanges on vertical racks and vertical angles, preventing axial rotation of side ties, allows using half the number of fastening elements for assembly compared to the previous design.

Possibility to re-hang the door.

Panel for measuring instruments.

Possibility to install a roof with eyebolts.

Explanation of designations

Metal assembling enclosure with one-side maintenance possibility XX.XX.X

XX – height, dm (including the front panel)
XX – width, dm
X – depth, dm

Assortment

Name	Overall dimensions (H×W×D), mm	Article
Metal assembling enclosure with one-side maintenance possibility 20.10.6	2000×1000×600	YKM60-M1-20-10-6
Metal assembling enclosure with one-side maintenance possibility 20.6.6	2000×600×600	YKM60-M1-20-6-6
Metal assembling enclosure with one-side maintenance possibility 20.8.6	2000×800×600	YKM60-M1-20-8-6
Metal assembling enclosure with one-side maintenance possibility 22.10.6	2200×1000×600	YKM60-M1-22-10-6
Metal assembling enclosure with one-side maintenance possibility 22.6.6	2200×600×600	YKM60-M1-22-6-6
Metal assembling enclosure with one-side maintenance possibility 22.8.6	2200×800×600	YKM60-M1-22-8-6

Accessories for the metal assembling enclosure with one-side maintenance possibility

Panel kit of the metal assembling enclosure with one-side maintenance possibility
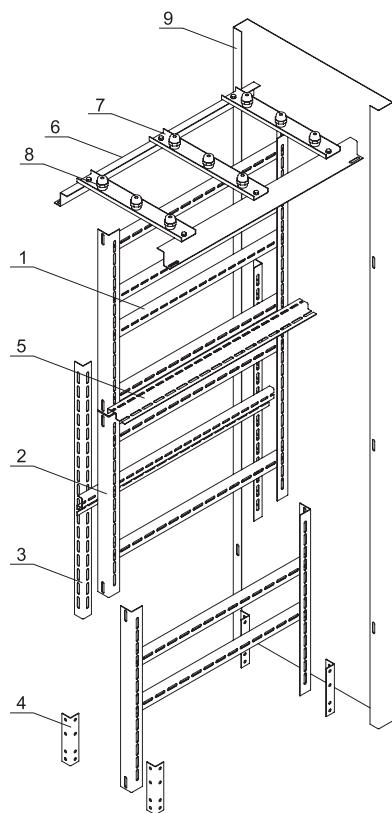
1 – C-rail
2 – One-section angle
3 – Perforated angle
4 – N (PE) busbar angle
5 – Mounting profile
6 – Bridge bar frame profile
7 – Bridge bar frame traverses
8 – Bus insulator SM40
9 – Side panel

<div style="writing-mode: vertical">Metallic shells</div>

Name	Purpose	Installation place	Completeness		Article
			unit of measurement	pcs.	
Side panel of the metal assembling enclosure with one-side maintenance possibility 20.6	closes the side openings, provides electrical safety and prevents the penetration of foreign objects into the board	Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility20.6.6	set	2	YKM60-BP-206-36
Side panel of the metal assembling enclosure with one-side maintenance possibility 22.6		metal assembling enclosure with one-side maintenance possibility 22.10.6, metal assembling enclosure with one-side maintenance possibility 22.8.6, metal assembling enclosure with one-side maintenance possibility22.6.6	set	2	YKM60-BP-226-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 20.10.6-2000	for further assembly of low-voltage complete devices on the basis of the metal assembling enclosure with one-side maintenance possibility. The set includes: channels, one-section angle, perforated angle, busbar angle, profile	Metal assembling enclosure with one-side maintenance possibility 20.10.6	set	1	YKM60-P-20102000-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 20.6.6-2000		Metal assembling enclosure with one-side maintenance possibility 20.6.6	set	1	YKM60-P-2062000-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 20.8.6-2000		Metal assembling enclosure with one-side maintenance possibility 20.8.6	set	1	YKM60-P-2082000-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 22.10.6-2000		Metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM60-P-22102000-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 22.6.6-2000		Metal assembling enclosure with one-side maintenance possibility 22.6.6	set	1	YKM60-P-2262000-36
Panel kit of the metal assembling enclosure with one-side maintenance possibility 22.8.6-2000		Metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM60-P-2282000-36

Name	Purpose	Installation place	Completeness		Article
			unit of measurement	pcs.	
Installation kit for VA07-208(...)220 exten. in the metal assembling enclosure with one-side maintenance possibility xx.10.6	for mounting circuit breakers of the VA07 series in the metal assembling enclosures with one-side maintenance possibility	Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM60-KU07V-X106-36
Installation kit for VA07-208(...)220 exten. in the metal assembling enclosure with one-side maintenance possibility xx.8.6		Metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM60-KU07V-X86-36
Installation kit for VA07-208(...)220 stat. in the metal assembling enclosure with one-side maintenance possibility xx.10.6		Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM60-KU07S-X106-36
Installation kit for VA07-208(...)220 stat. in the metal assembling enclosure with one-side maintenance possibility xx.8.6		Metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM60-KU07S-X86-36
Installation kit for VA07-325(332) exten. in the metal assembling enclosure with one-side maintenance possibility xx.10.6		Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM60-KU07-2V-X106-36
Installation kit for VA07-325(332) exten. in the metal assembling enclosure with one-side maintenance possibility xx.8.6		Metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM60-KU07-2V-X86-36
Installation kit for VA07-325(332) stat. in the metal assembling enclosure with one-side maintenance possibility xx.10.6		Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM60-KU07-2S-X106-36
Installation kit for VA07-325(332) stat. in the metal assembling enclosure with one-side maintenance possibility xx.8.6		Metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM60-KU07-2S-X86-36
Busbar bridge frame 2×6 of the metal assembling enclosure with one-side maintenance possibility	for the assembly of a bridge bar installed in the metal assembling enclosure with one-side maintenance possibility	Metal assembling enclosure with one-side maintenance possibility 600 mm wide	set	1	YKM60-R-2X6-36
Busbar bridge frame 3×10 of the metal assembling enclosure with one-side maintenance possibility	The first number in the name reflects the number of traverses, the second – the width of the metal assembling enclosure with one-side maintenance possibility	Metal assembling enclosure with one-side maintenance possibility 1000 mm wide	set	1	YKM60-R-3X10-36
Busbar bridge frame 3×8 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 800 mm wide	set	1	YKM60-R-3X8-36
Busbar bridge frame 4×10 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 1000 mm wide	set	1	YKM60-R-4X10-36
Busbar bridge frame 4×6 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 600 mm wide	set	1	YKM60-R-4X6-36
Busbar bridge frame 4×8 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 800 mm wide	set	1	YKM60-R-4X8-36
Panel 33, 35 for the metal assembling enclosure with one-side maintenance possibility	for installation of circuit breakers VA88-33, VA88-35	For all types of metal assembling enclosures with one-side maintenance possibility	set	1	YKM60-PM-33-36
Panel 40 for the metal assembling enclosure with one-side maintenance possibility	for installation of automatic switches VA88-40	For all types of metal assembling enclosures with one-side maintenance possibility	set	1	YKM60-PM-40-36
Panel 43 for the metal assembling enclosure with one-side maintenance possibility	for installation of automatic switches VA88-43	For all types of metal assembling enclosures with one-side maintenance possibility	set	1	YKM60-PM-43-36
Side brace for the metal assembling enclosure with one-side maintenance possibility (set 2 pcs.)	for installation of additional equipment	for all types of metal assembling enclosures with one-side maintenance possibility	set	2	YKM-S-70
N (PE) busbar corner for the metal assembling enclosure with one-side maintenance possibility (set 2 pcs.)	for installing N (PE) busbars	for all types of metal assembling enclosures with one-side maintenance possibility	set	2	YKM-U-N-PE
Roof 600×600 of the metal assembling enclosure with one-side maintenance possibility	provides electrical safety and prevents the entry of foreign objects into the enclosure	Metal assembling enclosure with one-side maintenance possibility 20.6.6, metal assembling enclosure with one-side maintenance possibility 22.6.6	set	1	YKM-K-600x600
Roof 800×600 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 20.8.6, metal assembling enclosure with one-side maintenance possibility 22.8.6	set	1	YKM-K-800x600
Roof 1000×600 of the metal assembling enclosure with one-side maintenance possibility		Metal assembling enclosure with one-side maintenance possibility 20.10.6, metal assembling enclosure with one-side maintenance possibility 22.10.6	set	1	YKM-K-1000x600

Metallic shells

Dismountable metal enclosures for distribution boards

Metal enclosures for distribution boards are used for assembly of power distribution boards intended for receiving and distributing energy.

Advantages

- High manufacturability and ease of assembly.
- Universal design.
- Ease of installation.
- Availability of additional accessories.
- High quality coating.
- Increased corrosion resistance.
- Electrical safety signs set.
- Certificate of conformity.

Specifications

Installation type	floor
Rated current, A	up to 400
Rated voltage	400 V
Metal thickness, mm	1.4
Degree of protection	IP31
Climatic modification	NF3
Apparatus type	any
Cover type	EPK, shagreen
Color	RAL 7022
Door opening angle	180°

Description of the structure

The cabinet consists of a collapsible frameless metal enclosure (ordered by one article, shipped in two places), inside which on mounting panels and rails it is possible to install a VR-32** breaker and fuses**
of type PN-2, PPNI, PP-35. The electrical circuits inside the cabinet are made using a set of power copper busbars (referred to asaccessories). N and PE buses can also be ordered as an option. The cabinet door is locked. The door can be re-hung for ease of maintenance.

Component parts

Name	Quantity	Place number
Left sidewall	1	1
Right sidewall	1	1
Back wall	1	1
Roof	1	2
Bottom	1	2
Base	1	2
Door	1	1
PN panel	3	2
VR bracket	1	2
VR angle	2	2
Pocket	1	2
Ground wire	1	2
Sign "High Voltage"	1	
Grounding sign	6	
Data sheet	1	

Explanation of designations

Metal enclosure for distribution boards-1-0 32 NF3 IP31

1 –	enclosure size
0 –	modification number
3 –	coverage type: EPR/shagreen
2 –	paint color RAL 7022
NF3 –	climatic version
IP31 –	degree of protection
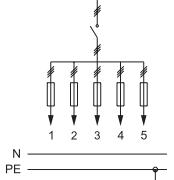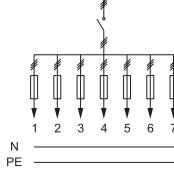
Assortment

Name	Specifications	Article
Metal enclosure for distribution boards-1-0 32 NF3 IP31*	Dimensions, mm: 1600×500×350. Weight, kg: 52	YKM21-01-31
Metal enclosure for distribution boards-2-0 32 NF3 IP31*	Dimensions, mm: 1600×700×350. Weight, kg: 63	YKM21-02-31

Accessories

Name	Article
Set of buses (copper, size 1) to metal enclosure for distribution boards*	YKM20-SS-01
Set of buses (copper, size 2) to metal enclosure for distribution boards	YKM20-SS-02
Set of N(PE) busbars (copper, size 1) for metal enclosure for distribution boards	YKM20-NP-01
Set of N(PE) busbars (copper, size 2) for metal enclosure for distribution boards*	YKM20-NP-02

Table 1

Cabinet type	I_{nom}, A	Enclosure size	Power busbars kit size	N/PE busbars kit size	Type and number of groups of fuses on output lines			Schematic diagram of primary connections
					63 A	100 A	250 A	
20U3	250	1	1	1	5	–	–	
21U3	250	1	1	1	–	5	–	
22U3	250	1	1	1	3	2	–	
26U3	400	1	1	1	–	–	5	
23U3	400	2	2	2	8	–	–	
24U3	400	2	2	2	–	8	–	
25U3	400	2	2	2	4	4	–	
27U3	400	2	2	2	–	5	2	
28U3	400	2	2	2	2	4	2	
29U3	400	2	2	2	–	4	4	

*   Items to be ordered.
** Switch VR-32 and fuses (see table 1) must be purchased separately.

184

FORMAT®
Electrical cabinets

FORMAT® electrical cabinets are used indoors at energy and industrial automation facilities. Used to place electrical equipment on a mounting panel or on an internal prefabricated frame.

FORMAT® cabinets have a frame structure based on closed profiles, perforated in two planes, which allows flexible placement of equipment and components, as well as convenience when joining cabinets in a row when used without side panels.

FORMAT

Advantages

- Fully symmetrical closed profile allows panels and doors to be installed in any lateral plane
- Collapsible construct – ease of installation, transportation and storage
- Convenient coupling of enclosures

- Assembly of a high level of complexity with a maximum partitioning of 3b up to 4000A

- Universal interchangeable accessories
- Unpainted elements have a special anti-corrosion aluzinc coating (Al-Zn)
- Unified fasteners
- European certificates

Specifications

Installation type	floor
Metal thickness	1.5 – 3.0 mm
Rated current	up to 4000 A
Cover type	powder, shagreen
Color	RAL 7035
Degree of protection	IP54
Apparatus type	any
Climatic modification	N2

Design features

The prefabricated structure based on a frame made of closed-section profiles provides a high load capacity of the cabinet. On the mounting panel – 500 kg. On the door – 50 kg. Side/back panel – 50 kg. On the frame (on internal rails) – 1 600 kg.

Doors can be installed both on the right and on the left. If necessary, doors with glass and/or with a ventilation grill can be ordered.

In cabinets of the same width and depth, the back and side walls are interchangeable. All walls are equipped with M8 earthing rods.

The bottom panel is made in the form of three movable plugs. It is possible to remove the bottom panel of the frame together with the plugs, which will allow you to obtain a cable gland with dimensions along the perimeter of the base of the cabinet.

The cabinet can be equipped with a mounting panel that can be fixed at any required depth. The advantage is the possibility of installing the panel in the extreme position of the rear of the cabinet (flush with the frame), which allows optimal use of the usable space.

The components of the cabinet to be grounded are equipped with M8 studs to allow the earthing connection to the frame at the most optimal locations.

Assortment

	Name	Overall dimensions, mm	Specifications	Color	Scope of Delivery	Article
	Roof and base IP54 FORMAT	600×600 (W×D)	The main supporting element of the frame, which ensures the rigidity of the structure. Material: sheet steel	RAL 7035	Roof, base, fasteners	YKM40D-FO-KO-060-060-54
		600×800 (W×D)				YKM40D-FO-KO-060-080-54
		800×600 (W×D)				YKM40D-FO-KO-080-060-54
		800×800 (W×D)				YKM40D-FO-KO-080-080-54
		1000×600 (W×D)				YKM40D-FO-KO-100-060-54
		1000×800 (W×D)				YKM40D-FO-KO-100-080-54
	Vertical rack 2000 FORMAT	2000 mm (height)	Closed design. Perforation pitch 25 mm in two planes, which provides flexible options for equipment installation. Material: sheet steel	RAL 7035	4 racks, fasteners	YKM40D-FO-ST-200
	Base angle 100 IP54 FORMAT	100 mm (height)	Material: sheet steel	RAL 7035	4 angles, fasteners	YKM40D-FO-KC-010-54
	Base panel IP54 FORMAT	600 (W or D)	Panel type: solid Material: sheet steel Height: 99 mm. Removing the panels and replacing them is allowed when the cabinet is loaded.	RAL 7035	Base side panel, fixing elements	YKM40D-FO-PC-010-060-54
		800 (W or D)				YKM40D-FO-PC-010-080-54
		1000 (W or D)				YKM40D-FO-PC-010-100-54
	Rear panel IP54 FORMAT	2000×600 (H×D)	Material: sheet steel The panel is equipped with a rubber seal to protect it from dust and moisture. A built-in M8 stud is provided for fixing the grounding cable.	RAL 7035	Rear panel, fasteners	YKM40D-FO-FP-200-060-54
		2000×800 (H×D)				YKM40D-FO-FP-200-080-54
		2000×1000 (H×D)				YKM40D-FO-FP-200-100-54
	Side panel IP54 FORMAT	2000×600 (H×D)	Material: sheet steel The panel is equipped with a rubber seal to protect it from dust and moisture. A built-in M8 stud is provided for fixing the grounding cable.	RAL 7035	Side walls (2 pcs.), fasteners	YKM40D-FO-SP-200-060-54
		2000×800 (H×D)				YKM40D-FO-SP-200-080-54

Metallic shells

FORMAT

	Name	Overall dimensions, mm	Specifications	Scope of Delivery	Article
	Cabinet connection kit IP54 FORMAT		It is used to connect frames when placing cabinets in a row. Material: connectors – aluzinc coated sheet steel (Al-Zn), sealing – polyurethane foam.	Frame connector – type A – 4 pcs. Frame connector – type B – 2 pcs. Self-adhesive sealant – 6 m. Fasteners	YKM40D-FO-JK-200-54
	Rail type A for cabinet depth or width 600 mm		Material: Aluzinc coated sheet steel (Al-Zn)	Mounting rail (without fasteners)	YKM40D-FO-VRA-060
	Rail type A for cabinet depth or width 800 mm				YKM40D-FO-VRA-080
	Rail type B for cabinet depth or width 600 mm		Material: Aluzinc coated sheet steel (Al-Zn)	Mounting rail (without fasteners)	YKM40D-FO-VRB-060
	Rail type B for cabinet depth or width 800 mm				YKM40D-FO-VRB-080
	Rail type B for cabinet depth or width 1000 mm				YKM40D-FO-VRB-100
	Self-tapping bolt M6 × 16		Self-tapping bolts M6x16 are used to fasten the mounting rails to the frame, as well as to connect them to each other.	Set / 20 pcs.	YKM40D-FO-BTS-006-016
	Mounting panel FORMAT	2000×600 (H×D) 2000×800 (H×D) 2000×1000 (H×D)	Material: galvanized sheet steel.	Mounting panel, standard brackets with a choice of mounting position along the cabinet depth, fasteners.	YKM40D-FO-MP-200-060 YKM40D-FO-MP-200-080 YKM40D-FO-MP-200-100
	Guide rails of the FORMAT mounting panel for a 600 mm deep cabinet		Material: galvanized sheet steel.	Guide rails (2 pcs.), fasteners.	YKM40D-FO-VRN-060
	Guide rails of the FORMAT mounting panel for 800 mm deep cabinet		Material: galvanized sheet steel.	Guide rails (2 pcs.), fasteners.	YKM40D-FO-VRN-080

FORMAT doors	Name	Overall dimensions, mm	Specifications	Color	Scope of Delivery	Article
	Metal door Solid	2000x600 (H×W)	Material: sheet steel; stiffening ribs around the perimeter of the door – galvanized profiles with holes for mounting accessories; for doors with glass – tempered brown tinted glass; for a door with ventilation – plastic ventilation grilles (degree of protection IP 54).	RAL 7035	Door with a lock (without a handle, with a key insert with two teeth); fasteners.	YKM40D-FO-DM-200-060
		2000x800 (H×W)				YKM40D-FO-DM-200-080
	Metal door, double-leaf solid (leaf 1)	2000x1000 (H×W)				YKM40D-FO-DM-200-100
	Solid double-leaf metal door (leaf 2)					YKM40-FO-DMD-200-100
	Metal door with glass	2000x600 (H×W)				YKM40D-FO-DG-200-060
		2000x800 (H×W)				YKM40D-FO-DG-200-080
	Metal door with glass and two ventilation grilles	2000x600 (H×W)				YKM40D-FO-DGI-200-060
		2000x800 (H×W)				YKM40D-FO-DGI-200-080

Dimensions

Modular metal enclosures

Flush-mounting metal distribution enclosure-12z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-18z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-24z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-36z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-48з

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-54з

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Flush-mounting metal distribution enclosure-72z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Dimensions

192

![IEK logo]

Wall-mounting metal distribution enclosure-12я

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-18z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-24z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Dimensions

193

Wall-mounting metal distribution enclosure-36z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-48z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-54з

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-72z

Item No.	Name
1	Board enclosure
2	Operational panel
3	DIN rail
4	N and PE busbar rail
5	Earthing nut
6	Door
7	Lock

Wall-mounting metal distribution enclosure-12z IP54

Item No.	Name
1	Board enclosure
2	DIN rail
3	N and PE busbar rail
4	Operational panel
5	Fastening hook

The product is complete with glands

Wall-mounting metal distribution enclosure-24z IP54

The product is complete with glands

Item No.	Name
1	Board enclosure
2	DIN rail
3	N and PE busbar rail
4	Operational panel
5	Fastening hook

Wall-mounting metal distribution enclosure-36z IP54

The product is complete with glands

Item No.	Name
1	Board enclosure
2	DIN rail
3	N and PE busbar rail
4	Operational panel
5	Fastening hook

Dimensions

196

Wall-mounting metal distribution enclosure-48z IP54

The product is complete with glands

Item No.	Name
1	Board enclosure
2	DIN rail
3	N and PE busbar rail
4	Operational panel
5	Fastening hook

Flush-mounting metal enclosure for metering and distribution-1/9

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Ground stud M6
9	Studs M6 for bars for N and PE busbars

197

Flush-mounting metal enclosure for metering and distribution-3/9

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	Studs M6 for bars for N and PE busbars

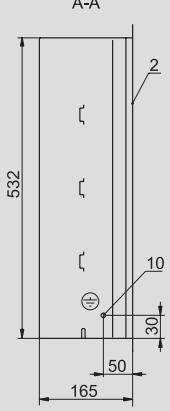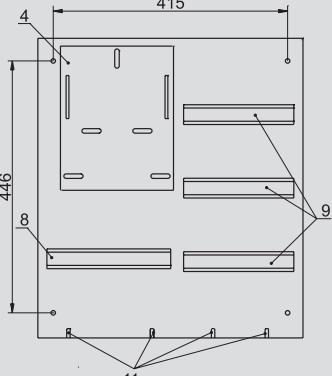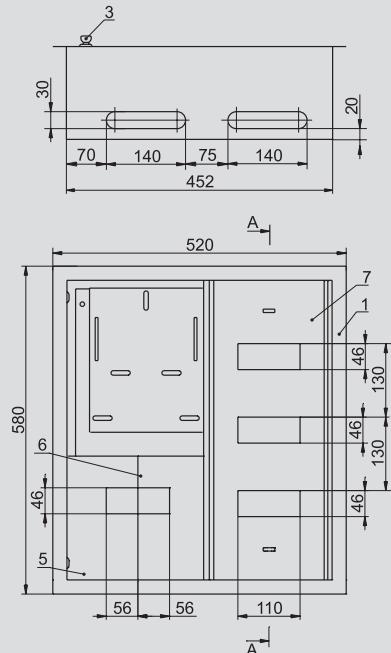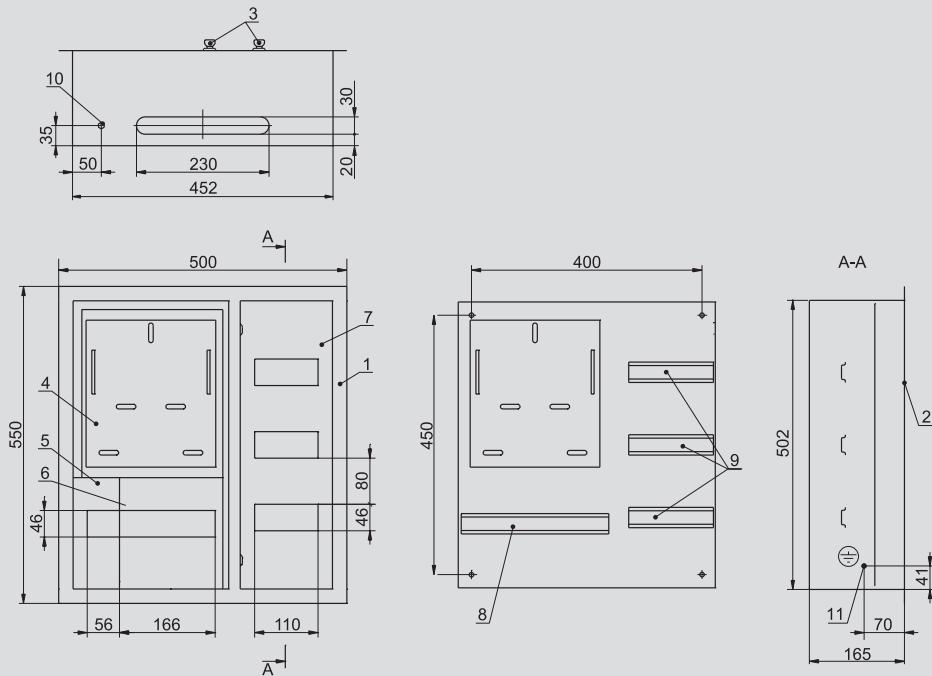Flush-mounting metal enclosure for metering and distribution-1/12

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	Ground stud M6

Flush-mounting metal enclosure for metering and distribution-3/12

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	Ground stud M6

Flush-mounting metal enclosure for metering and distribution-1/15

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

Dimensions

Flush-mounting metal enclosure for metering and distribution-3/18

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

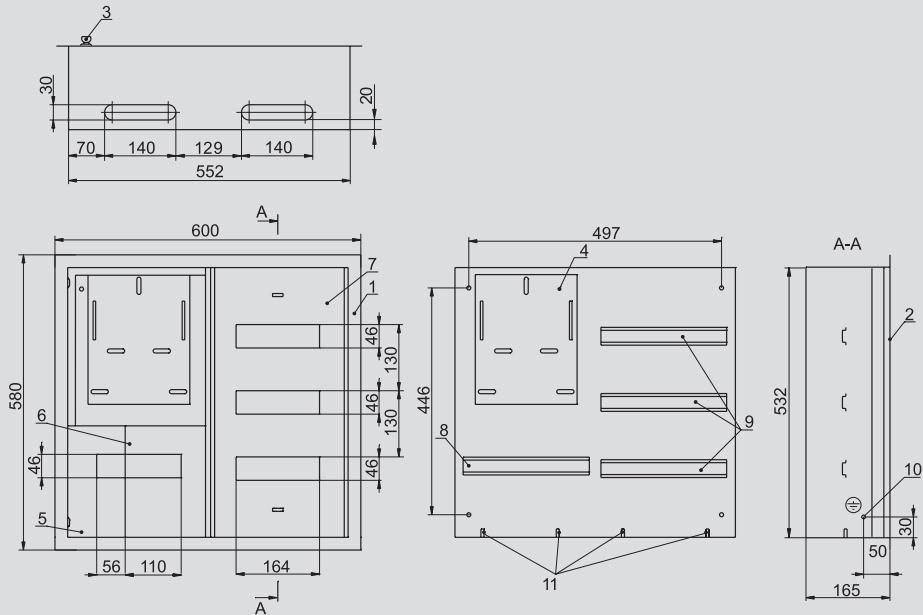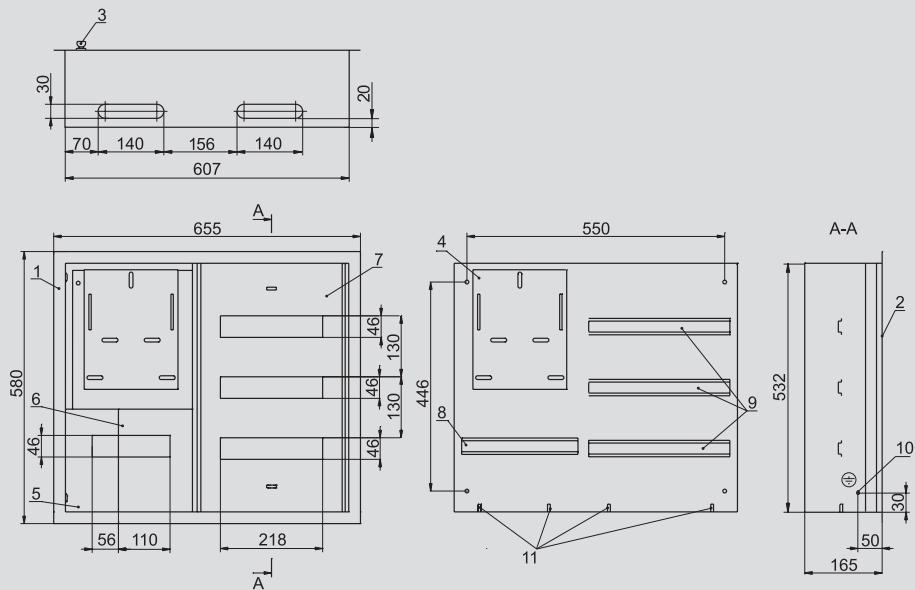Flush-mounting metal enclosure for metering and distribution-1/15

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

Flush-mounting metal enclosure for metering and distribution-3/18

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

Flush-mounting metal enclosure for metering and distribution-3/24

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Ground stud M6
11	Studs M6 for bars for N and PE busbars

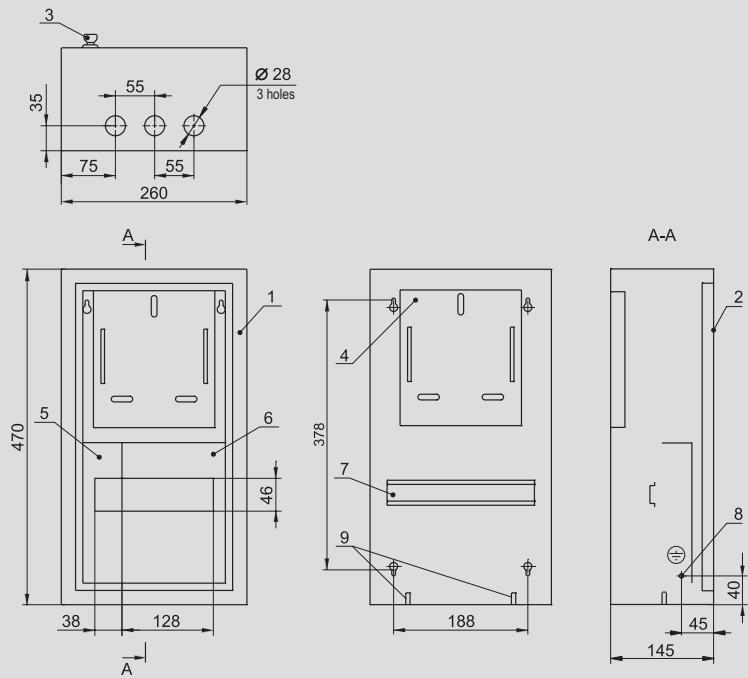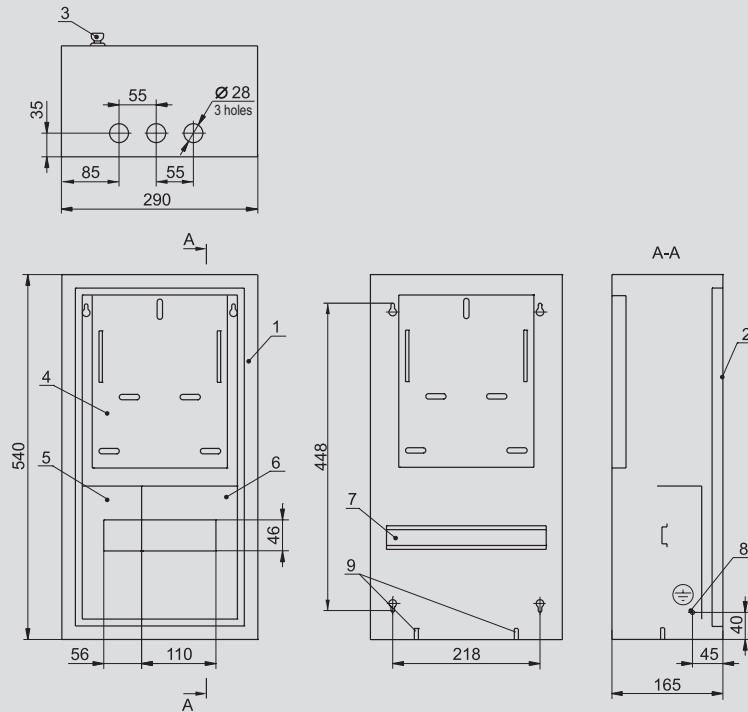Flush-mounting metal enclosure for metering and distribution-3/30

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Ground stud M6

Flush-mounting metal enclosure for metering and distribution-3/36

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Ground stud M6
11	Studs M6 for bars for N and PE busbars

Flush-mounting metal enclosure for metering and distribution-3/42

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Ground stud M6
11	Studs M6 for bars for N and PE busbars

Flush-mounting metal enclosure for metering and distribution-3/48

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Ground stud M6

Wall-mounting metal enclosure for metering and distribution-1/9

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	Studs M6 for bars for N and PE busbars

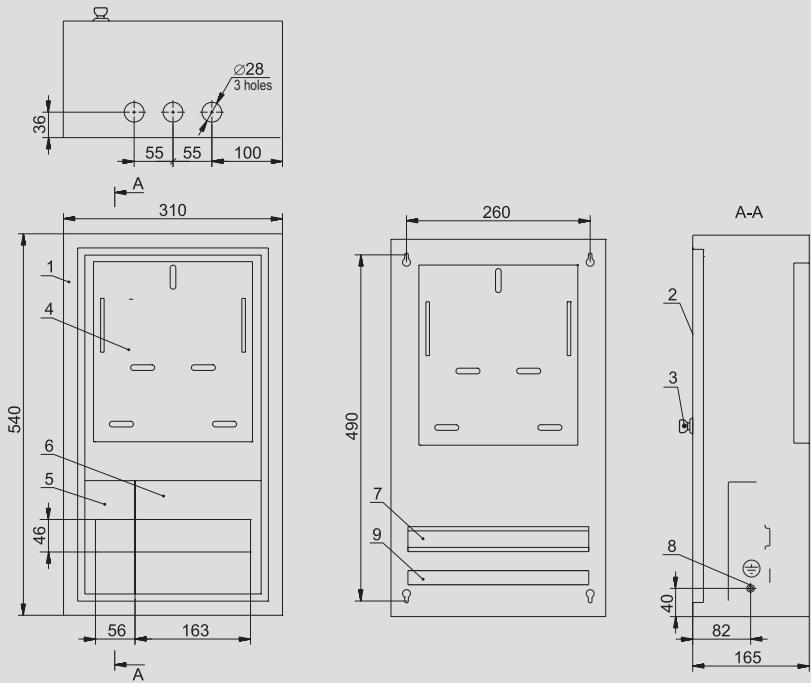Wall-mounting metal enclosure for metering and distribution-3/9

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	Studs M6 for N and PE busbars

Wall-mounting metal enclosure for metering and distribution-1/12

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	N and PE busbar rail

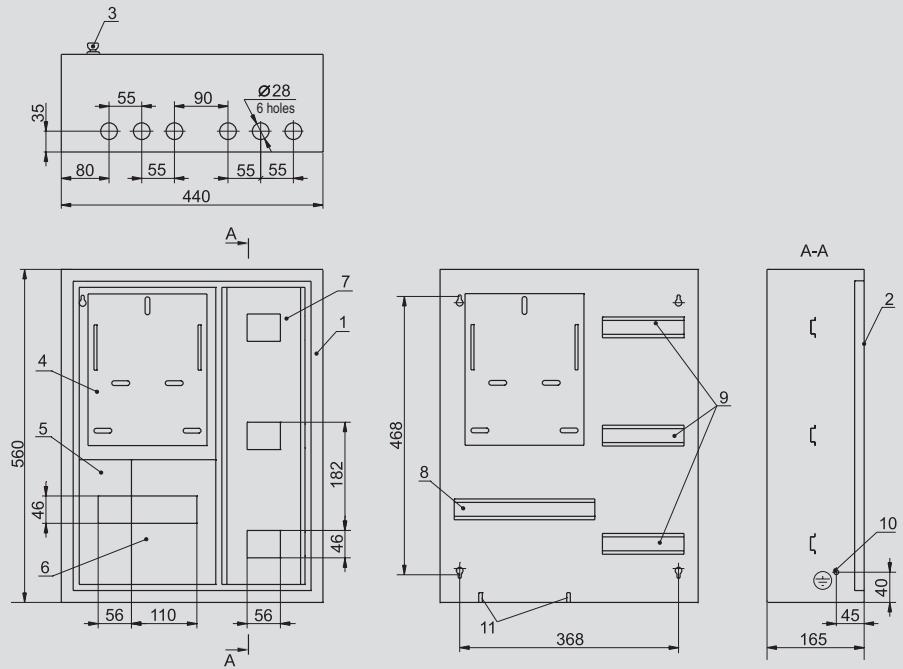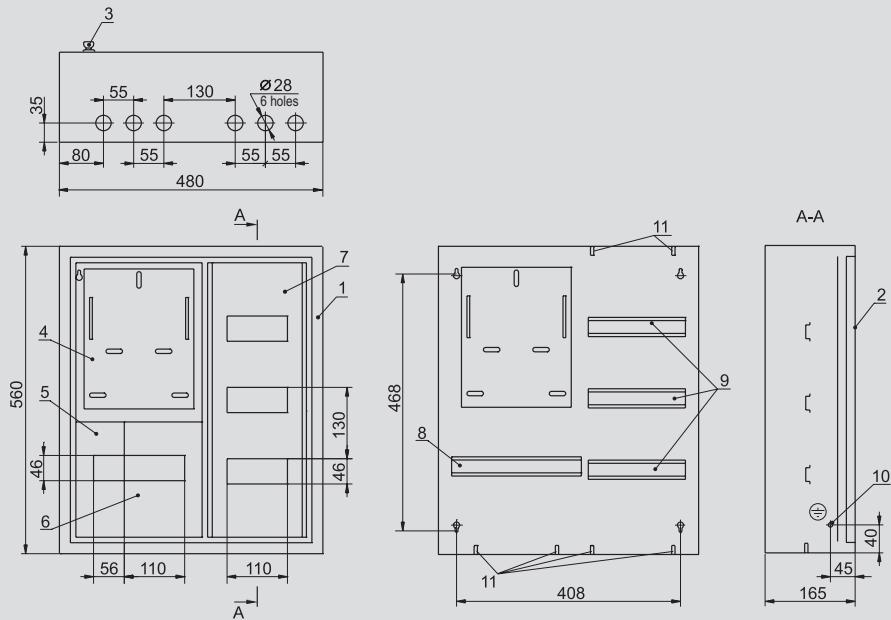Wall-mounting metal enclosure for metering and distribution-3/12

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	DIN rail
8	Earthing nut M6
9	N and PE busbar rail

Wall-mounting metal enclosure for metering and distribution-1/15

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

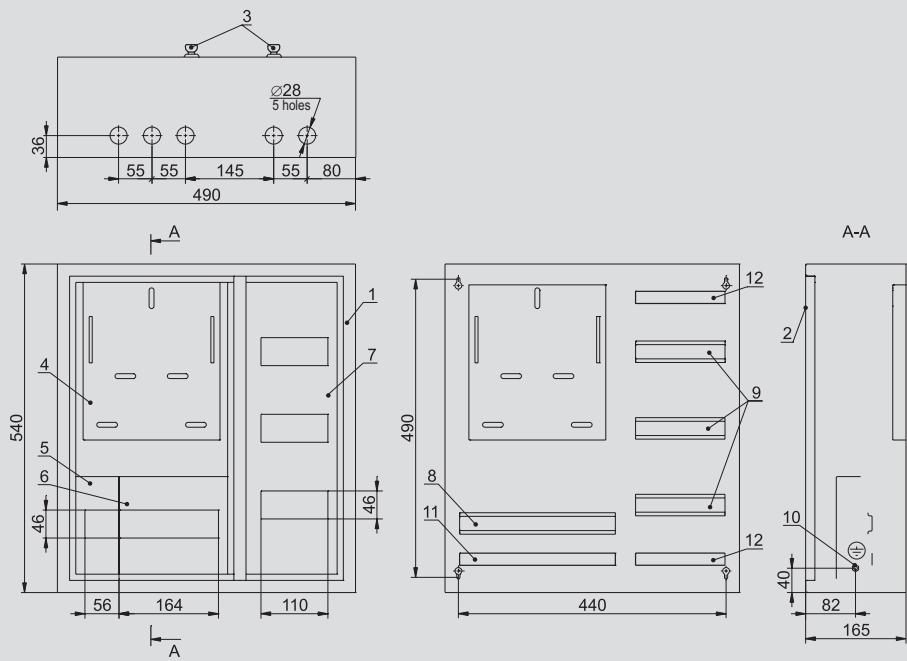Wall-mounting metal enclosure for metering and distribution-3/18

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for N and PE busbars

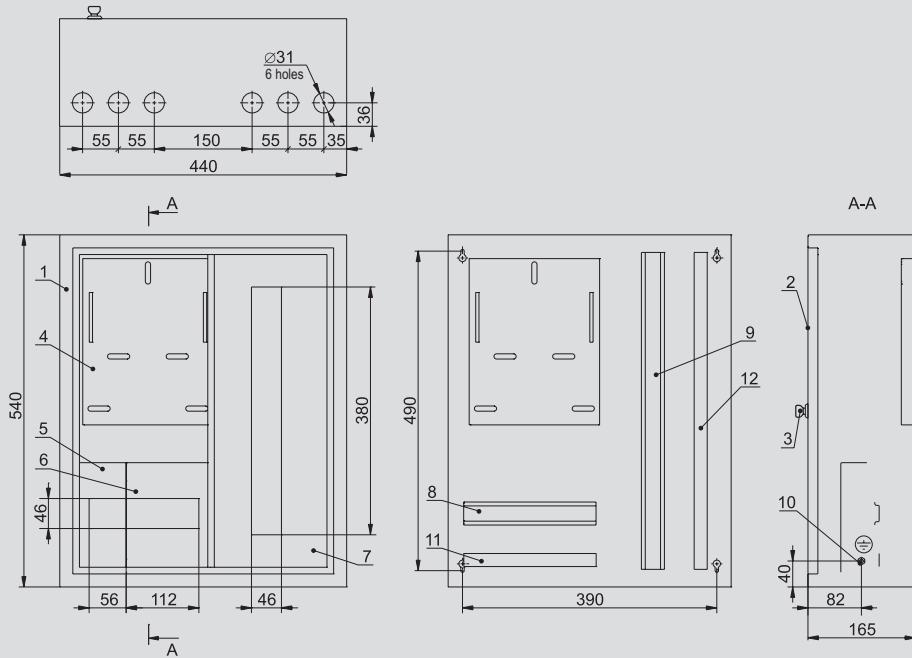Wall-mounting metal enclosure for metering and distribution-3/24

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

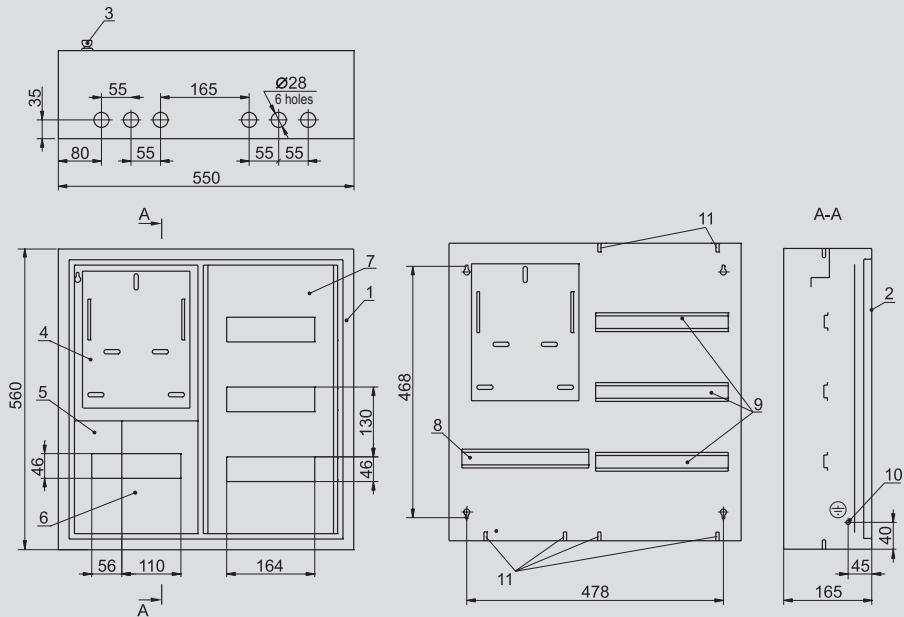Wall-mounting metal enclosure for metering and distribution-3/30

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	N and PE busbar rail
12	N and PE busbar rail

Dimensions

Wall-mounting metal enclosure for metering and distribution-3/30/1

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	N and PE busbar rail
12	N and PE busbar rail

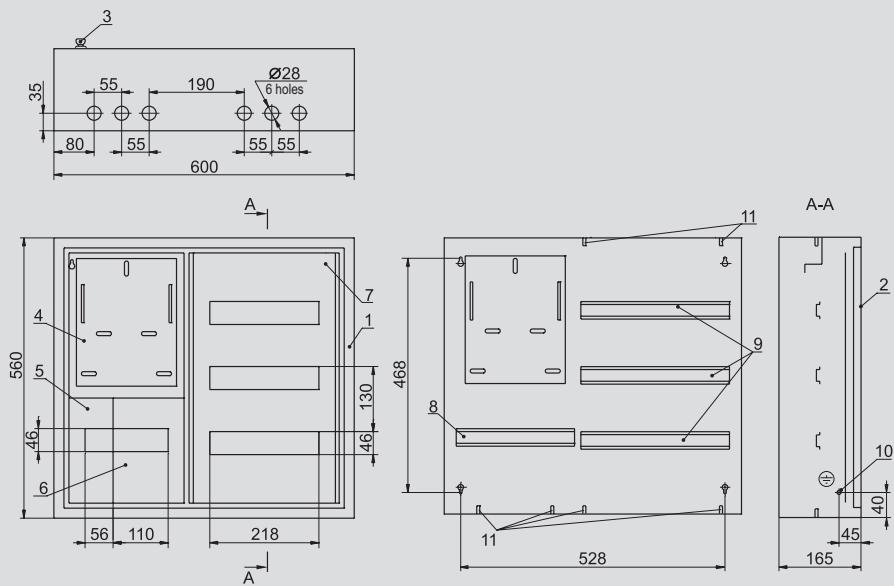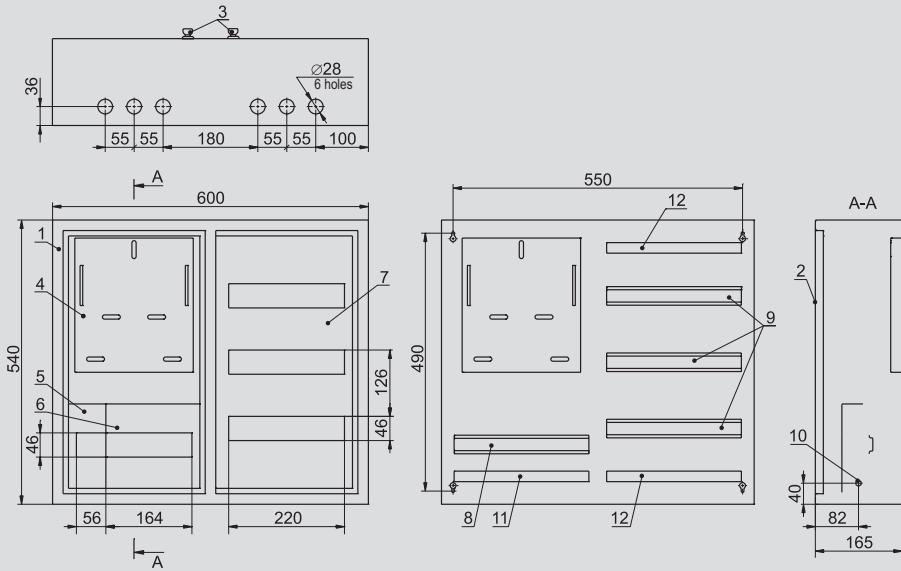Wall-mounting metal enclosure for metering and distribution-3/36

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

Dimensions

Wall-mounting metal enclosure for metering and distribution-3/42

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	Studs M6 for bars for N and PE busbars

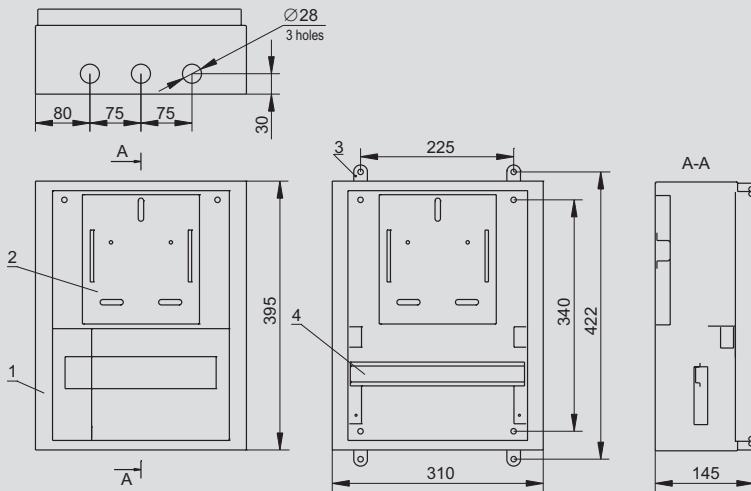Wall-mounting metal enclosure for metering and distribution-3/48

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Meter panel
5	Blanking plate
6	Blanking plate
7	Blanking plate
8	DIN rail
9	DIN rail
10	Earthing nut M6
11	N and PE busbar rail
12	N and PE busbar rail

Wall-mounting metal enclosure for metering and distribution-1/12 IP54

Item No.	Name
1	Board enclosure
2	mounting panel
3	Fastening hook
4	DIN rail

The product is complete with glands

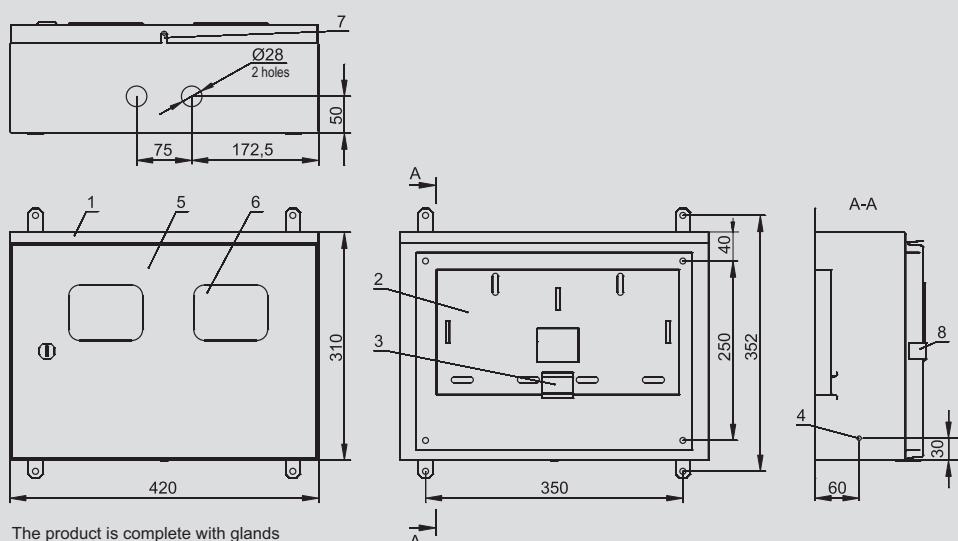Wall-mounting metal enclosure for metering and distribution-3/12 IP54

∅28
3 holes

80 75 75 30

A

2

1

540

3 225

485 567

4

310

A-A

165

The product is complete with glands
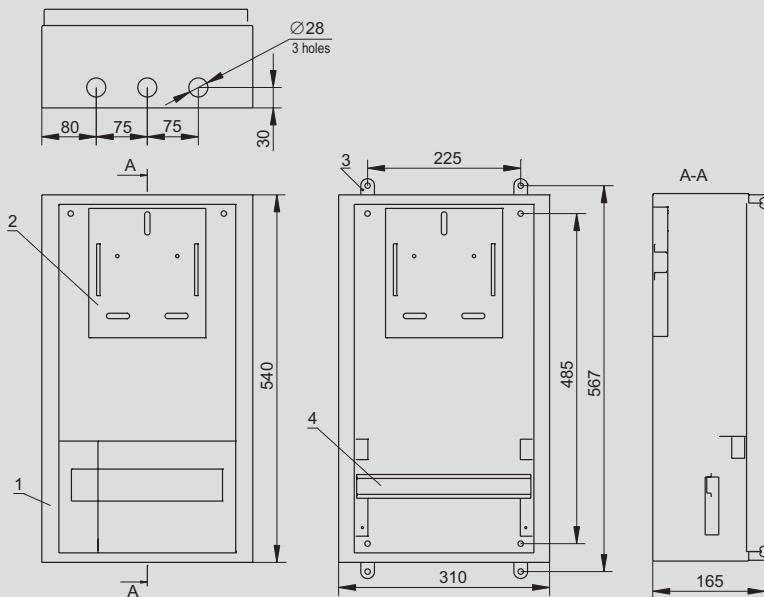
Item No.	Name
1	Board enclosure
2	mounting panel
3	Fastening hook
4	DIN rail

Wall-mounting metal enclosure for metering-1/1-0 IP54
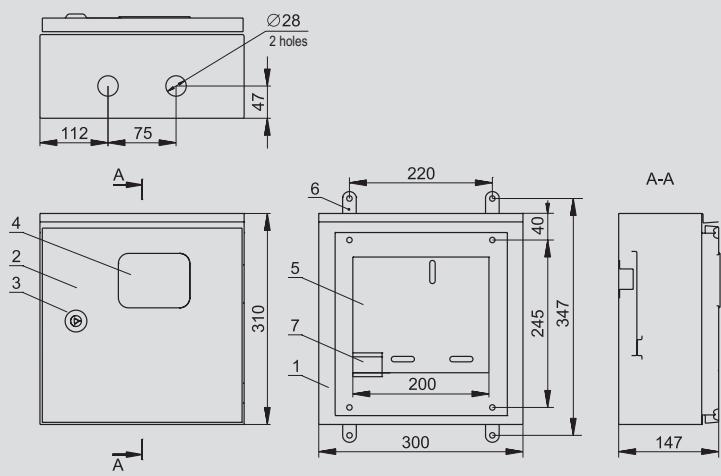
∅28
2 holes

112 75 47

A

4
2
3

310

6 220

40
245 347

7
200
300

1

A-A

147

A

The product is complete with glands

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Glass window
5	mounting panel
6	Fastening hook
7	DIN rail

Wall-mounting metal enclosure for metering-1/2-0 IP54

7

∅28
2 holes

50

75 172,5

1 5 6

310

A

2

3

310

40
250 352

A-A

4

30

420

350

60

The product is complete with glands

A

Item No.	Name
1	Board enclosure
2	mounting panel
3	DIN rail
4	Ground stud
5	Door
6	Glass
7	Sealing unit
8	Lock

Dimensions

210

Wall-mounting metal enclosure for metering-3/1-0 IP54

The product is complete with glands

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Glass window
5	mounting panel
6	Fastening hook
7	DIN rail

Wall-mounting metal enclosure for metering-1/1-1 IP54

The product is complete with glands
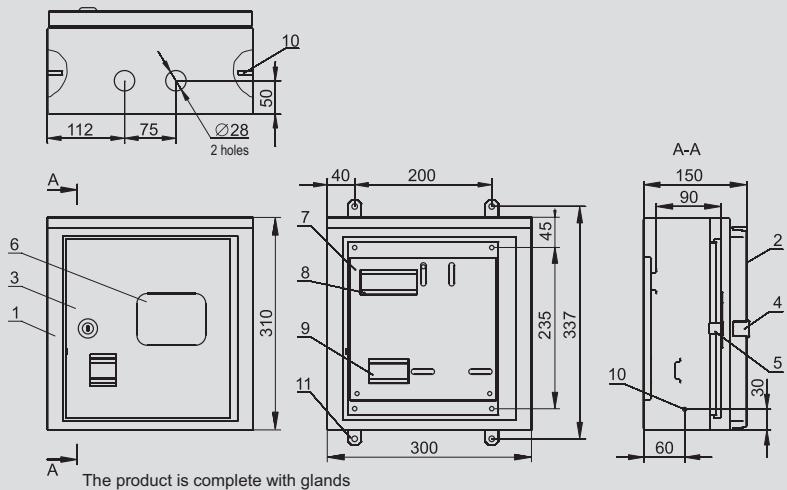
Item No.	Name
1	Board enclosure
2	Door
3	Door
4	Lock
5	Lock
6	Glass
7	mounting panel
8	DIN rail VN and OPS
9	DIN rail VA
10	Ground stud
11	Fastening hook

Wall-mounting metal enclosure for metering-3/1-1 IP54

The product is complete with glands
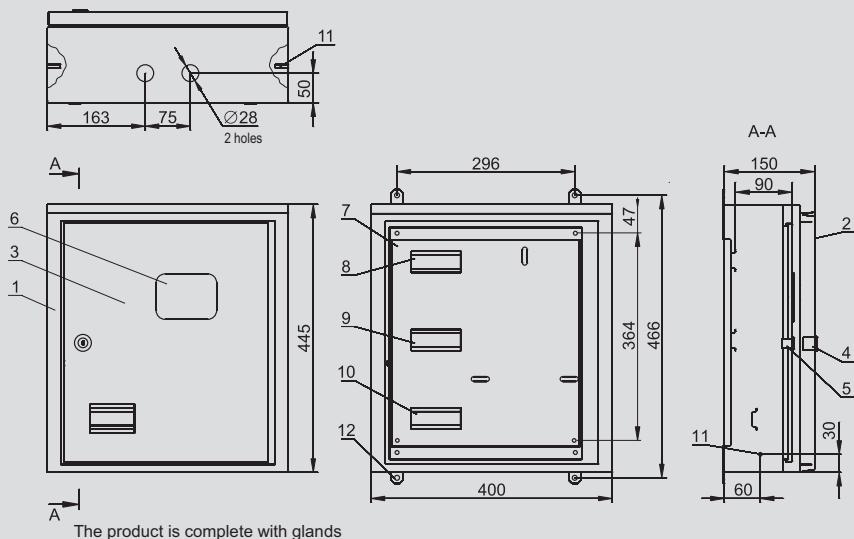
Item No.	Name
1	Board enclosure
2	Door
3	Door
4	Lock
5	Lock
6	Glass
7	mounting panel
8	DIN rail VN
9	DIN rail OPS
10	DIN rail VA
11	Ground stud
12	Fastening hook

Wall-mounting metal distribution enclosure-12r-1 IP31 LIGHT
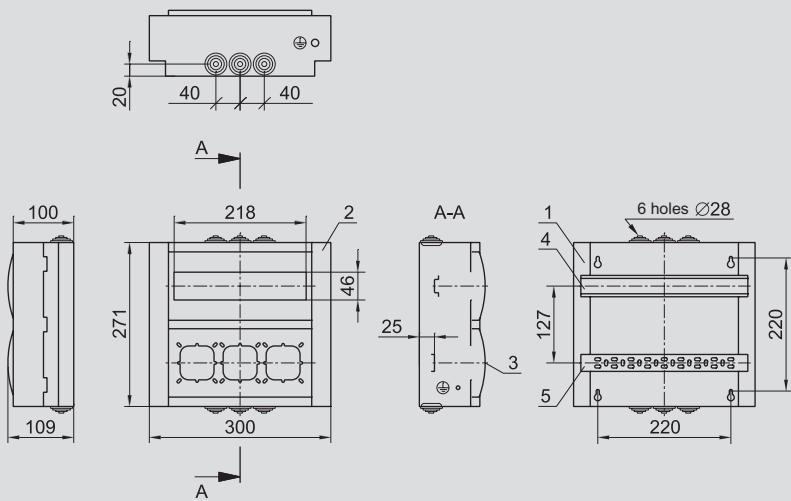
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

Wall-mounting metal distribution enclosure-24-1 IP31 LIGHT
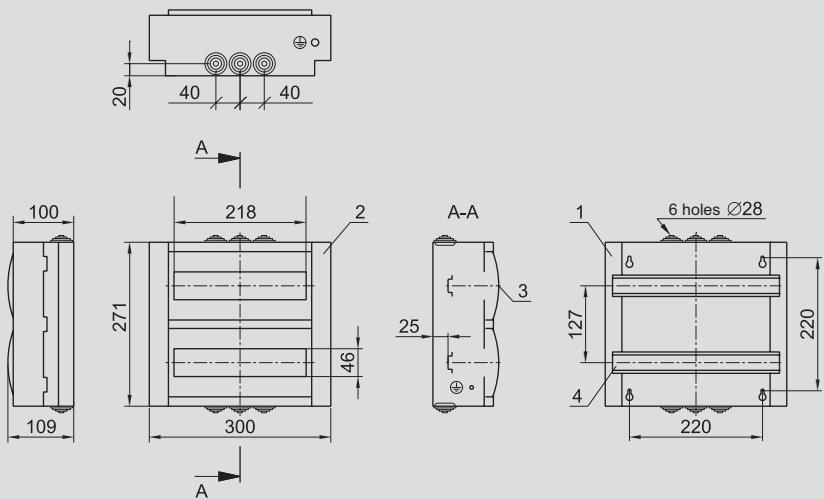
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail

Wall-mounting metal distribution enclosure-24r-1 IP31 LIGHT
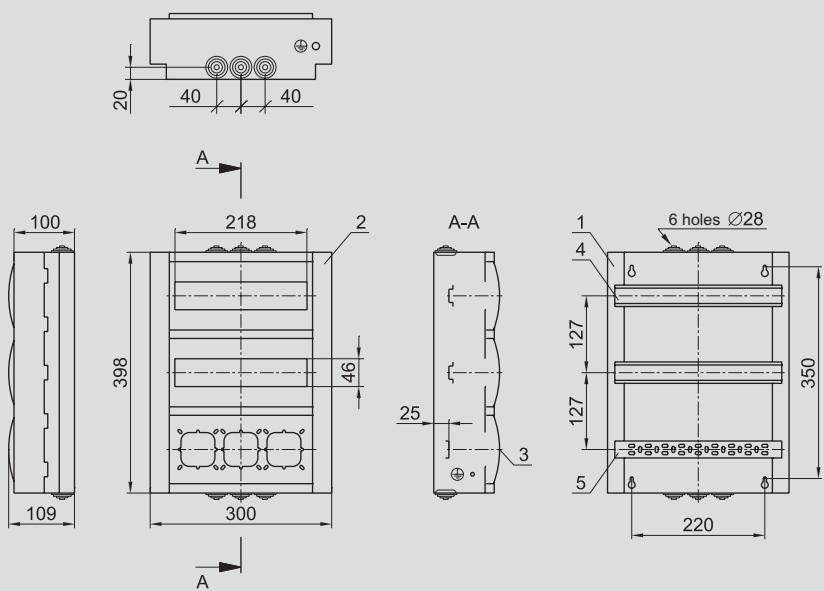
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

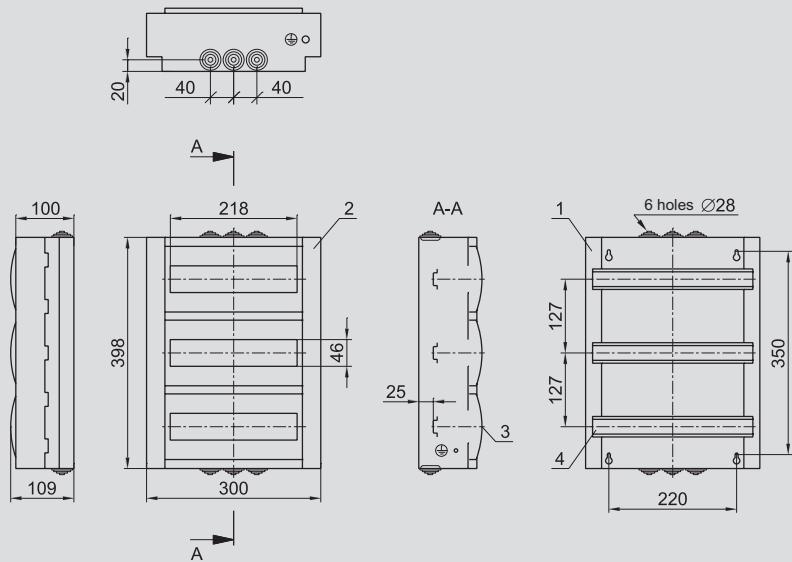Wall-mounting metal distribution enclosure-36-1 IP31 LIGHT

Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail

20
40
40

A

100
218
2
A-A
1
6 holes ⌀28
398
46
127
127
350
25
3
109
300
220
4
A

Wall-mounting metal distribution enclosure-36r-1 IP31 LIGHT
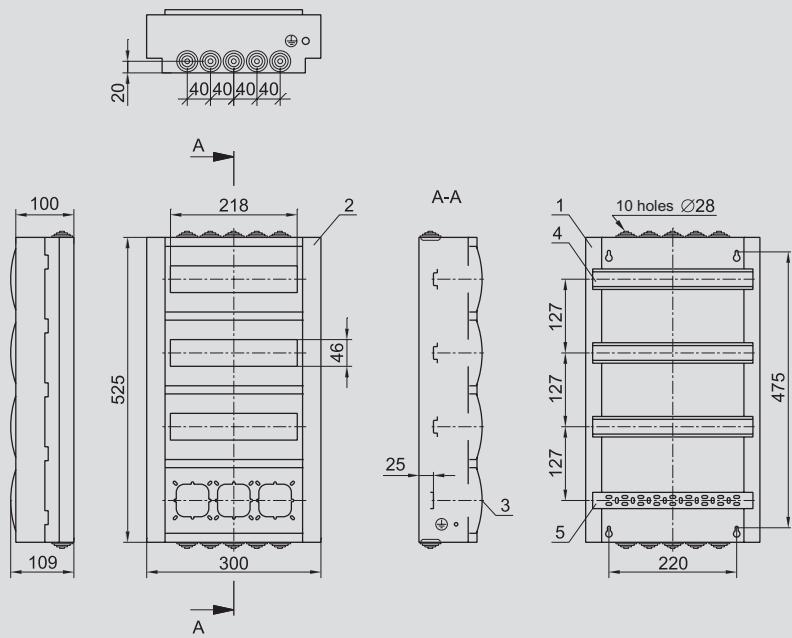
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

20
40 40 40 40

A

100
218
2
A-A
1
4
10 holes ⌀28
525
46
127
127
127
475
25
3
109
300
5
220
A

IEK

Wall-mounting metal distribution enclosure-48-1 IP31 LIGHT
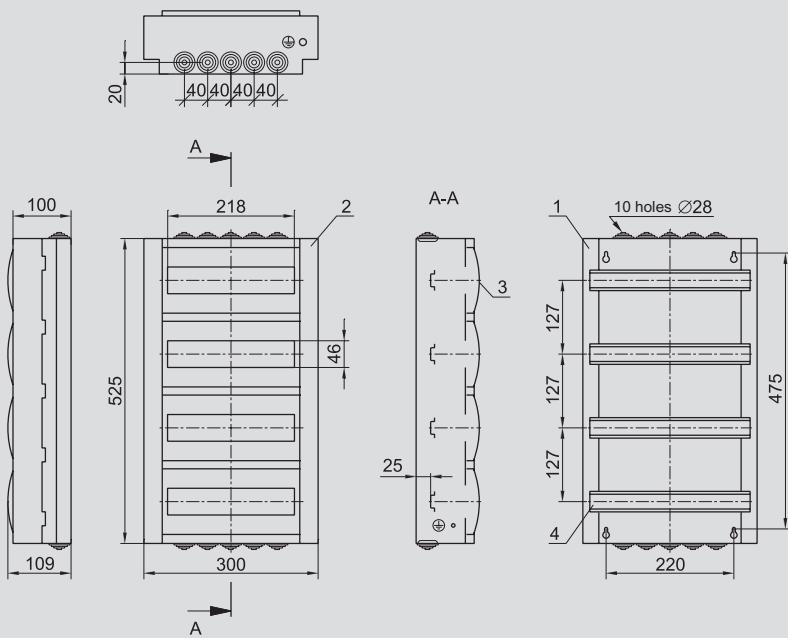
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail

Wall-mounting metal enclosure for metering and distribution-1/r-1 IP31 LIGHT
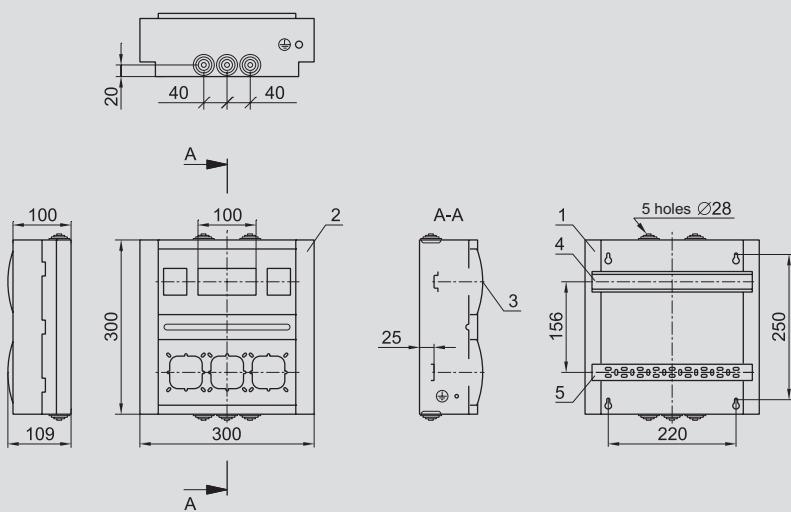
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

Wall-mounting metal enclosure for metering and distribution-1/12-1 IP31 LIGHT
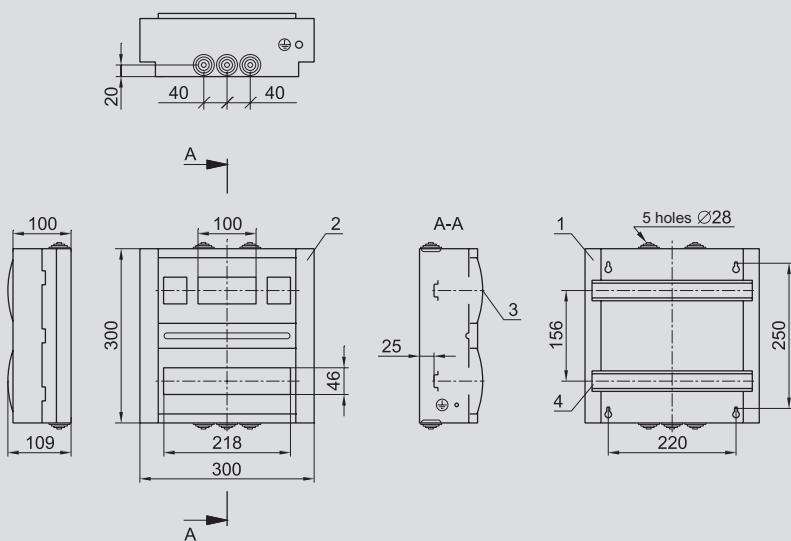
Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail

Wall-mounting metal enclosure for metering and distribution-1/24r-1 IP31 LIGHT

Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

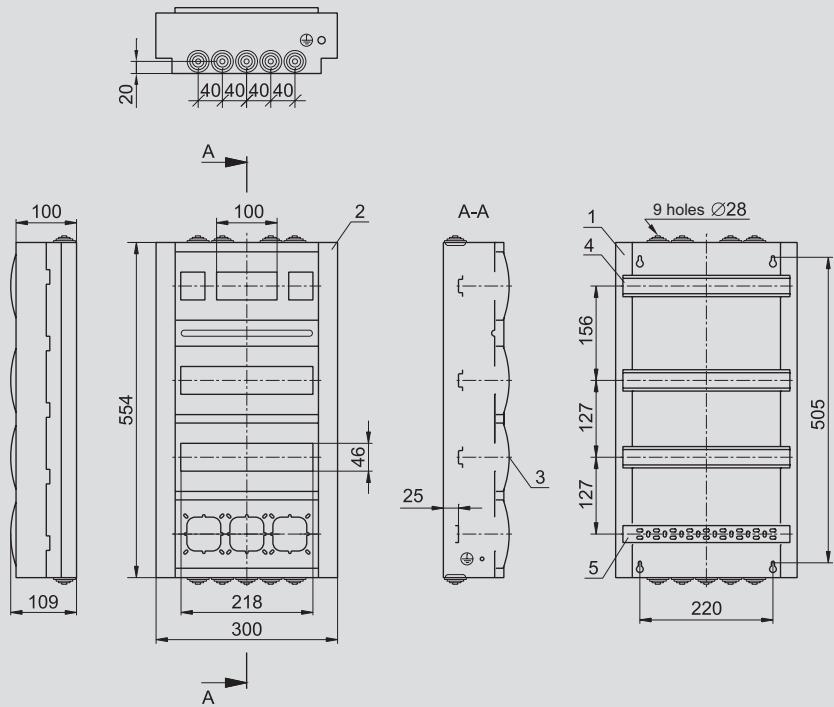Wall-mounting metal enclosure for metering and distribution-1/36-1 IP31 LIGHT

Item No.	Name
1	Base
2	Front panel
3	Hinged cover
4	DIN rail
5	Mounting rail for N and PE busbars

Dimensions

215

Flush-mounting metal distribution enclosure-24-1 IP31 UNIVERSAL

View without a door

View without a panel

Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Flush-mounting metal distribution enclosure-36-1 IP31 UNIVERSAL

View without a door

View without a panel

Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Flush-mounting metal distribution enclosure-48-1 IP31 UNIVERSAL

View without a door

View without a panel

Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Dimensions

![IEK logo]

Flush-mounting metal distribution enclosure-2×24-1 IP31 UNIVERSAL

View without a door   View without a panel   Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Flush-mounting metal distribution enclosure-2×36-1 IP31 UNIVERSAL

View without a door   View without a panel   Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Flush-mounting metal distribution enclosure-2×48-1 IP31 UNIVERSAL

View without a door   View without a panel   Side view

Top view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame

Wall-mounting metal distribution enclosure-24-1 IP31 UNIVERSAL

View without a door

440

310

View without a panel

1

3

125

2

4

Rear view

375

459

6

185

Top view

60

136

5

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Wall-mounting metal distribution enclosure-36-1 IP31 UNIVERSAL

View without a door

565

310

View without a panel

1

3

125

125

2

4

Rear view

500

584

6

185

Top view

60

136

5

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Wall-mounting metal distribution enclosure-48-1 IP31 UNIVERSAL

View without a door

690

310

View without a panel

1

3

125

125

125

2

4

Rear view

625

709

6

185

Top view

60

136

5

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Dimensions

Wall-mounting metal distribution enclosure-2×24-1 IP31 UNIVERSAL

View without a door

View without a panel

Rear view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Top view

Wall-mounting metal distribution enclosure-2×36-1 IP31 UNIVERSAL

View without a door

View without a panel

Rear view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Top view

Wall-mounting metal distribution enclosure-2×48-1 IP31 UNIVERSAL

View without a door

View without a panel

Rear view

Item No.	Name
1	Board enclosure
2	DIN rail
3	Operational panel
4	Mounting frame
5	Cable entry
5	Installation bracket

Top view

Metal enclosure for staircase distribution board

Item No.	Name
1	Board enclosure
2	Distribution compartment door
3	Metering compartment door
4	Low voltage compartment door
5	Operational panel
6	Horizontal frame bar
7	Vertical frame bar
8	DIN rail
9	Rail for N and PE busbars
10	Mounting bar
11	DIN rail for load break switch
12	Bracket
13	Lock
14	Lock with different cylinder

Metal enclosure for
staircase distribution board-4.
View with doors

Electrical
installation frame

Metal enclosure for staircase distribution board-1270

View with doors

Electrical installation frame

Casing for the metal enclosure for staircase distribution board

Casing for the metal enclosure for staircase distribution board-1270

Dimensions

Metal assembling enclosure for staircase distribution modular board

Item No.	Name
1	Cover of electrical cabinet for staircase distribution modular board
2	Cover of communication cabinet for staircase distribution modular board
3	Metal enclosure for metering and distribution
4	Height compensator

Type design	H, mm
Metal assembling enclosure for staircase distribution modular board-x-2500	2500
Metal assembling enclosure for staircase distribution modular board-x-2600	2600
Metal assembling enclosure for staircase distribution modular board-x-2700	2700
Metal assembling enclosure for staircase distribution modular board-x-2800	2800
Metal assembling enclosure for staircase distribution modular board-x-2850	2850
Metal assembling enclosure for staircase distribution modular board-x-2950	2950
Metal assembling enclosure for staircase distribution modular board-x-3300	3300
Metal assembling enclosure for staircase distribution modular board-x-3850	3850

Dimensions

221

LIGHT metal assembling enclosure for staircase distribution modular board
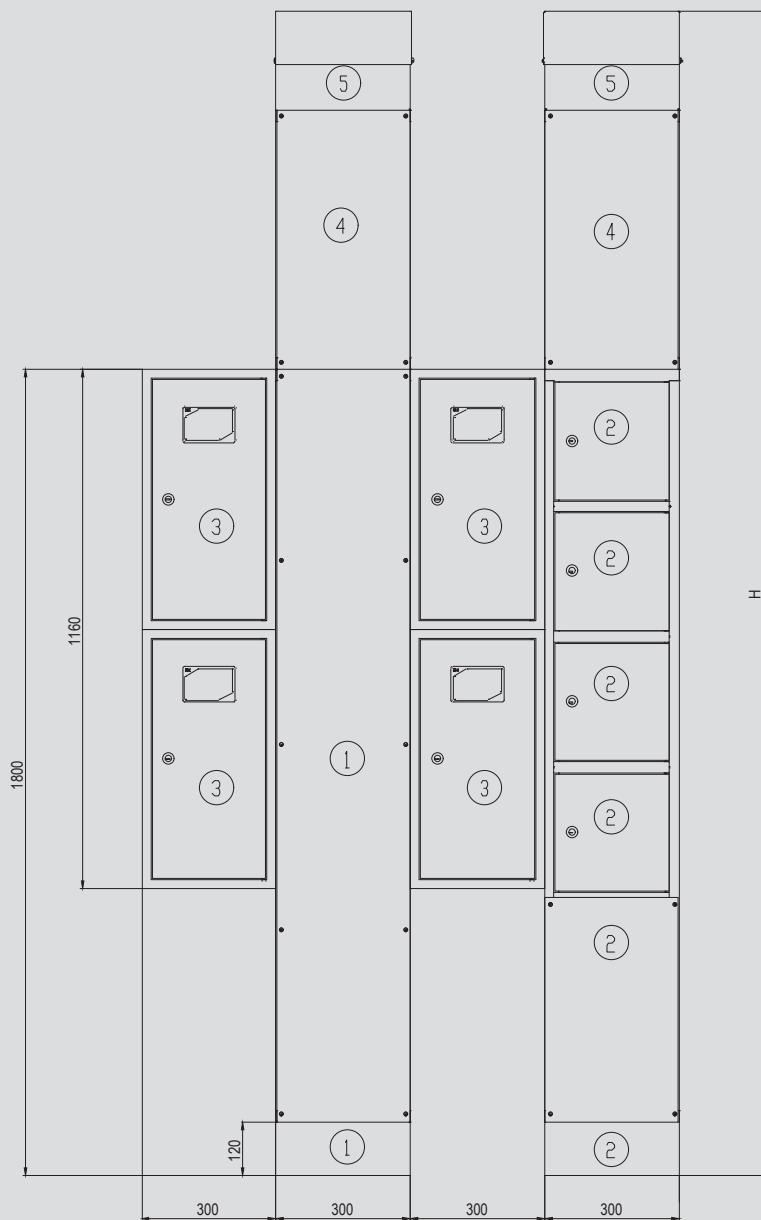
Item No.	Name
1	Cover of electrical cabinet for staircase distribution modular board LIGHT
2	Cover of communication cabinet for staircase distribution modular board LIGHT
3	Metal enclosure for metering and distribution LIGHT
4	Upper cover of electrical cabinet for staircase distribution modular board/ cover of communication cabinet for staircase distribution modular board LIGHT
5	height compensator LIGHT

H, mm	Depth, mm
2400	150
2500-2600	150
2600-2800	150
2800-3000	150
2800-3000	150
3000	150
3100-3200	150
3200-3400	150
3400-3600	150
3600	150
3700-3800	150
3800-4000	150
4000-4200	150

Low Voltage Complete Devices

Light board with switch-3-63-6-0
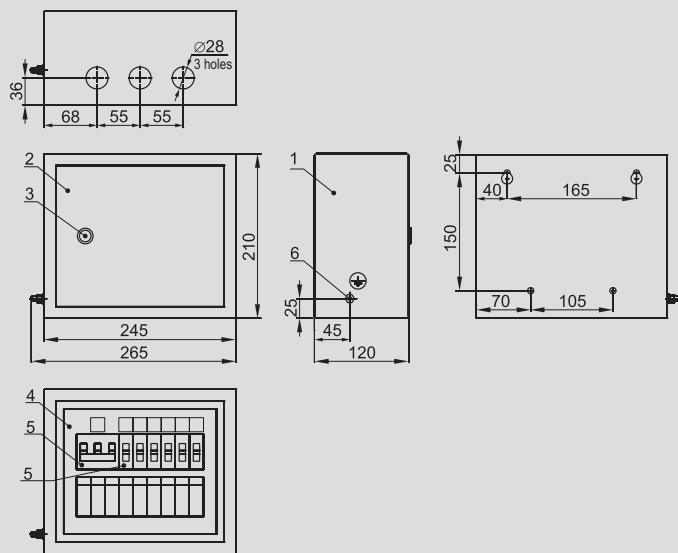
Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Blanking plate
5	Automatic switch
6	Grounding node

Light board with switch-3-100-12-0, light board with switch-3-63-12-0

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Blanking plate
5	Automatic switch
6	Grounding node

Flush-mounted light board with switch-3-63-6=-0
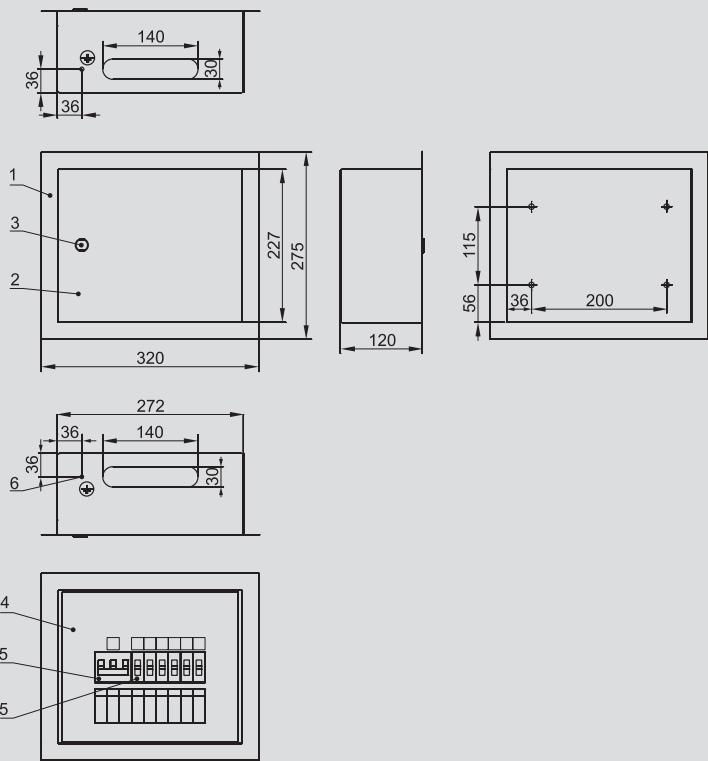
Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Blanking plate
5	Automatic switch
6	Grounding node

Flush-mounted light board with switch-3-100-12-0, flush-mounted light board with switch-3-63-12-0

Item No.	Name
1	Board enclosure
2	Door
3	Lock
4	Blanking plate
5	Automatic switch
6	Grounding node

Stepdown transformer box-0,25 X/X-2
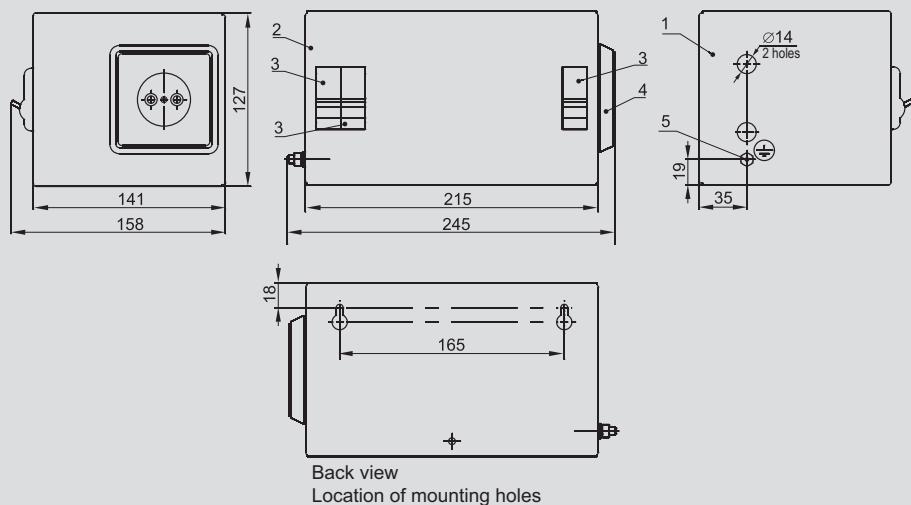
Item No.	Name
1	Base
2	Cover
3	Automatic switch
4	Socket
5	Grounding node

Back view
Location of mounting holes

Stepdown transformer box-0,25 X/X-3

Item No.	Name
1	Base
2	Cover
3	Automatic switch
4	Socket
5	Grounding node

Back view
Location of mounting holes

Dimensions

Distributor for construction sites

Distributor for construction sites-3 x 16/3+1 x 16/5 N1 IP44

Right view   Front view with a door   Front view without a door   Left view

2

3

257

395

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel
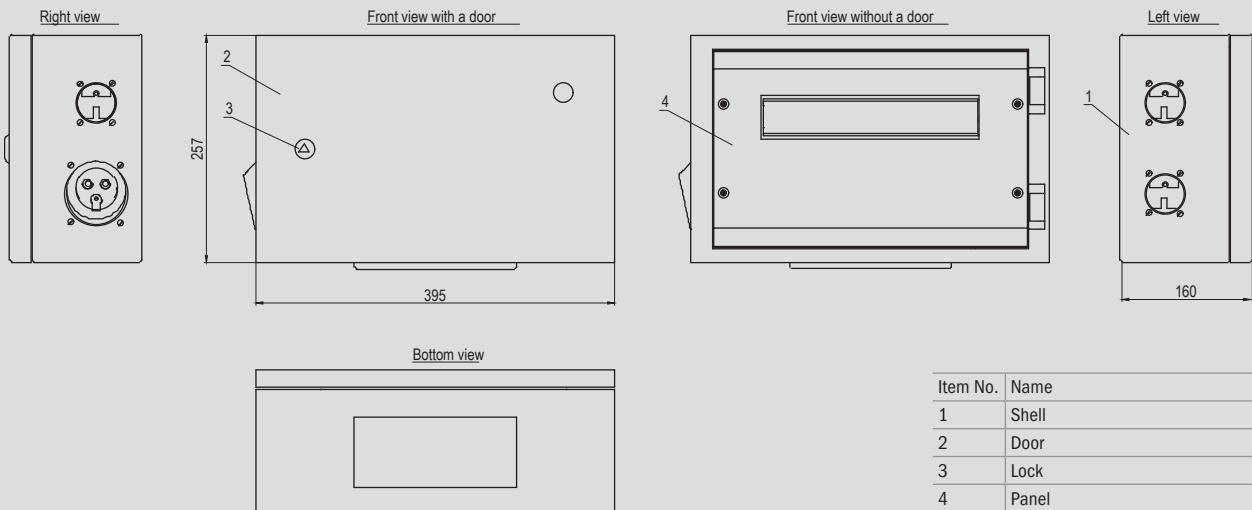
Distributor for construction sites-3x16/3+1x16/5+1x32/5 N1 IP44

Right view   Front view with a door   Front view without a door   Left view

2

3

322

450

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel
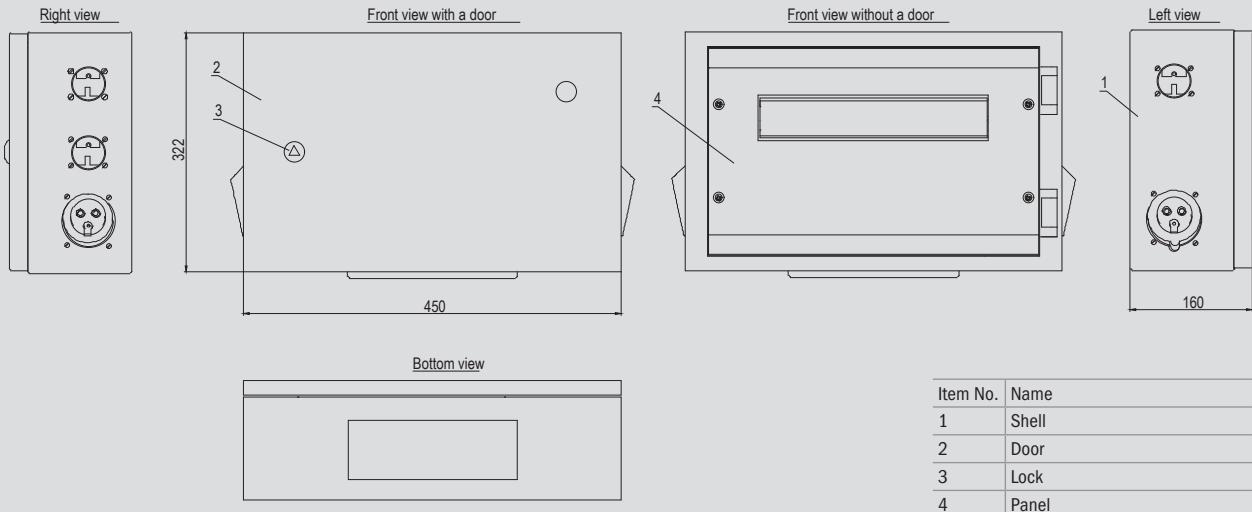
Distributor for construction sites-3x16/3+2x16/5+1x32/5 N1 IP44

Right view   Front view with a door   Front view without a door   Left view

2

3

322

560

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel

Dimensions

![IEK logo]
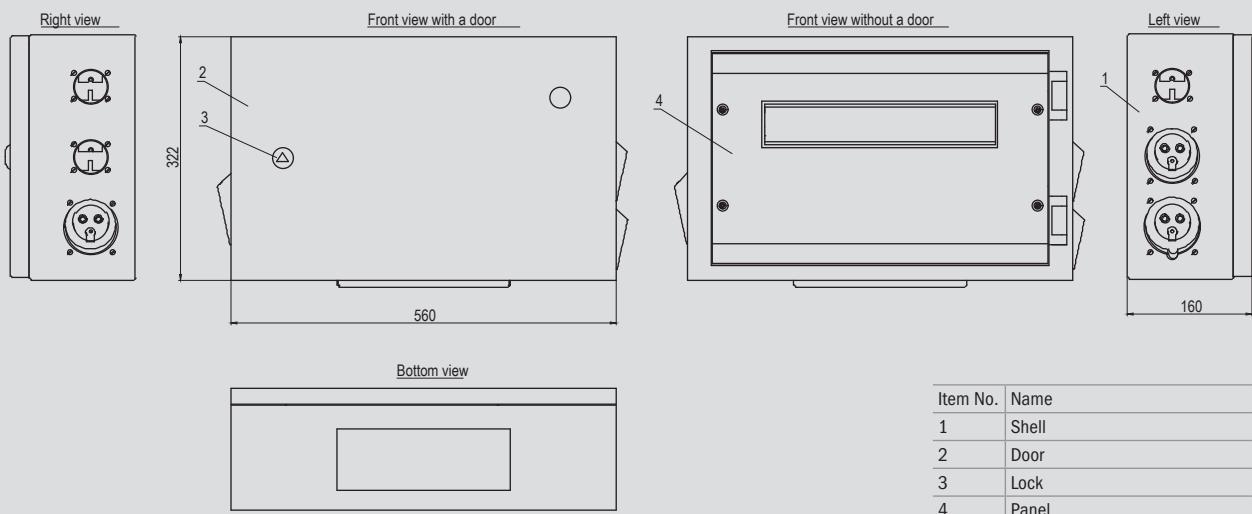
Distributor for construction sites-Zx16/3*1x32/5N1 IP44

Right view | Front view with a door | Front view without a door | Left view

2

3

257

395

4

1

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel
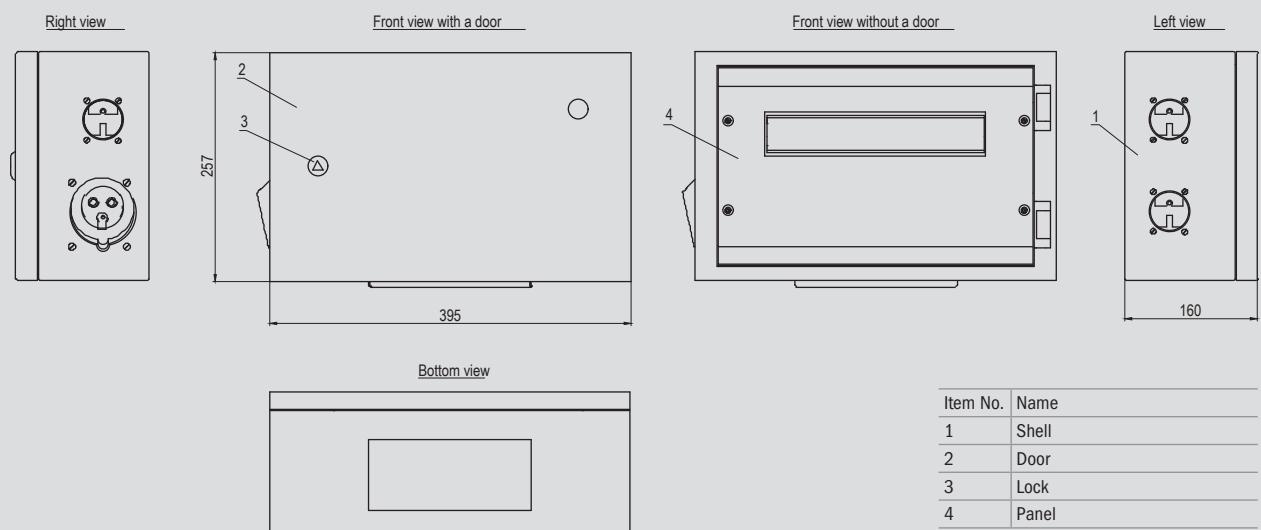
Distributor for construction sites-3x16/3+2x16/5 N1 IP44

Right view | Front view with a door | Front view without a door | Left view

2

3

322

450

4

1

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel
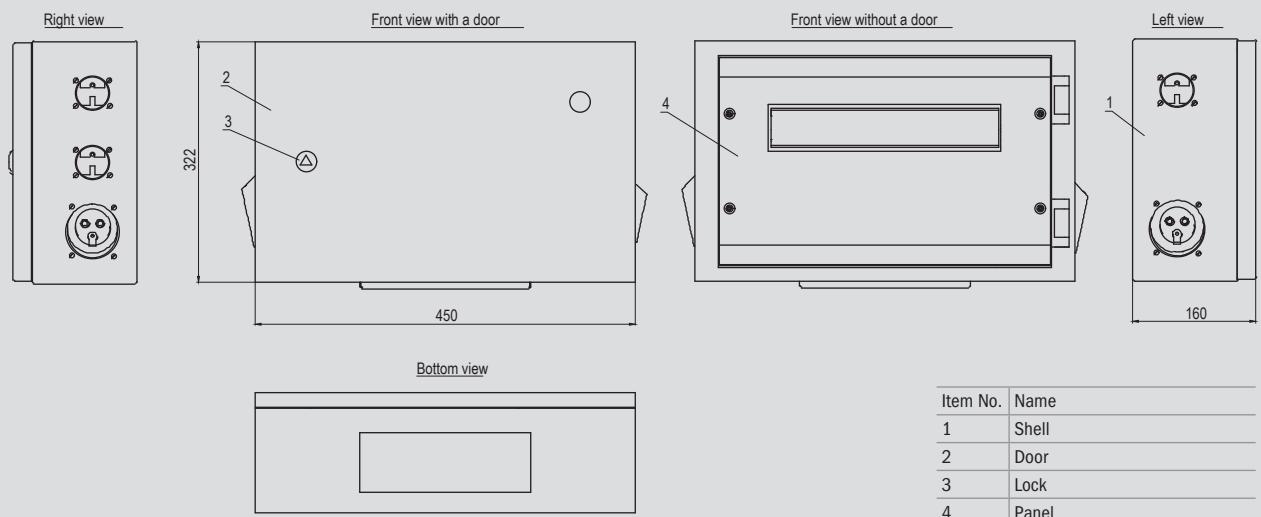
Distributor for construction sites-3x16/3+3x16/5 N1 IP44

Right view | Front view with a door | Front view without a door | Left view

2

3

322

560

4

1

160

Bottom view

Item No.	Name
1	Shell
2	Door
3	Lock
4	Panel

Dimensions

227
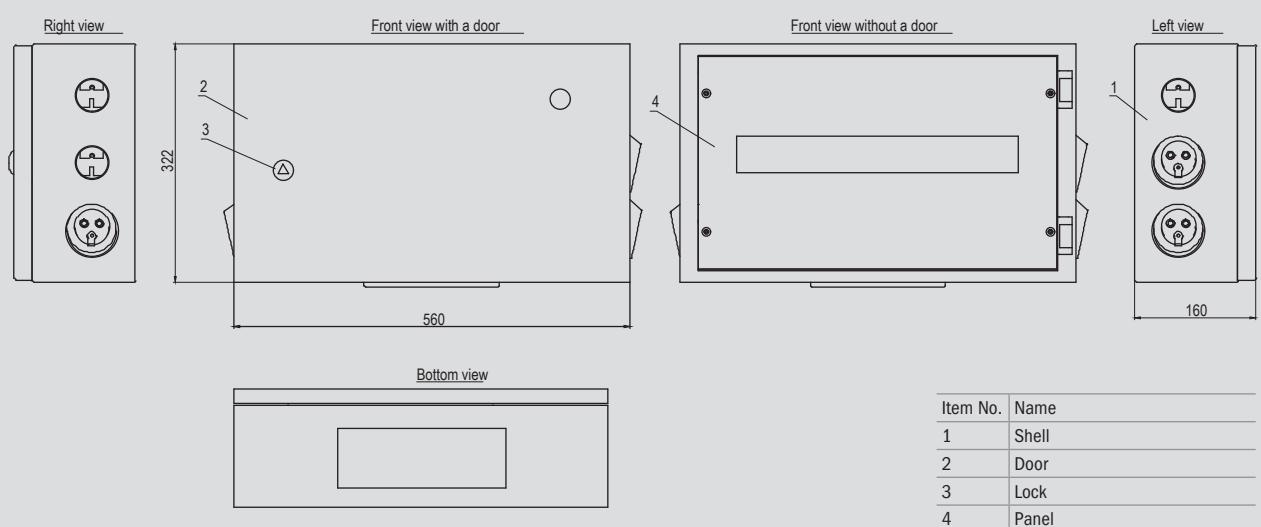
Kit for fastening the metal enclosure to the pole with a mounting strip

A

A

Mounting strip

Metal enclosure

Pole

Mounting bar

A - A

Flanged nut M 8

Cut and fold excess strip

Bushing

Ø350 max

Bolt M 8x 100

Flanged nut M 6

Flange bolt M 6 x14

Sealing ring

Kit for fastening the metal enclosure to the pole with a bracket

A

A

Pole

Metal enclosure

Pole

Mounting bar

A - A

180±2

180±2

8°±2°

Flanged nut M 8

Insert bolt

Flanged nut M 6

Flange bolt M 6 x14

Sealing ring
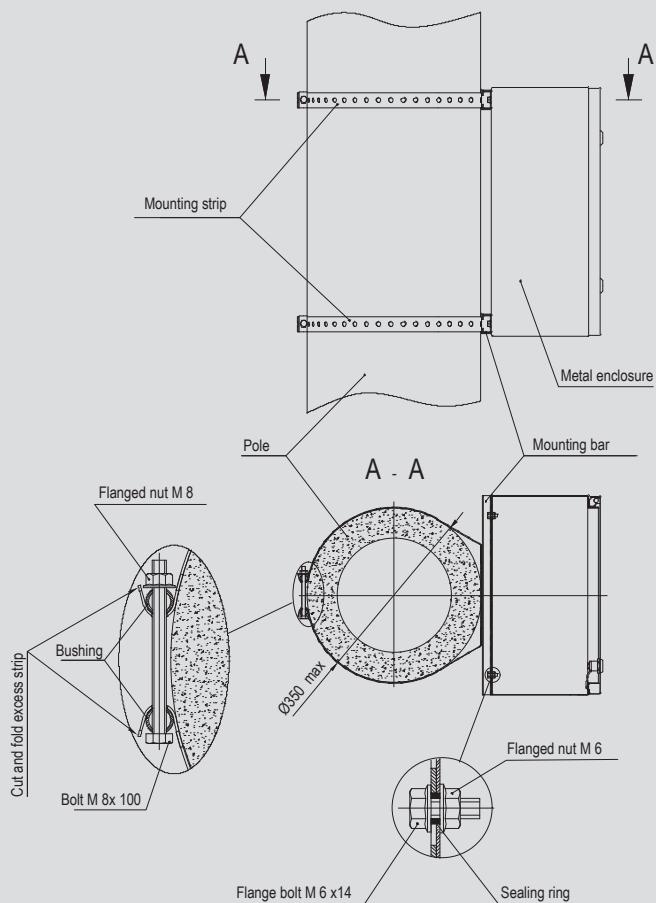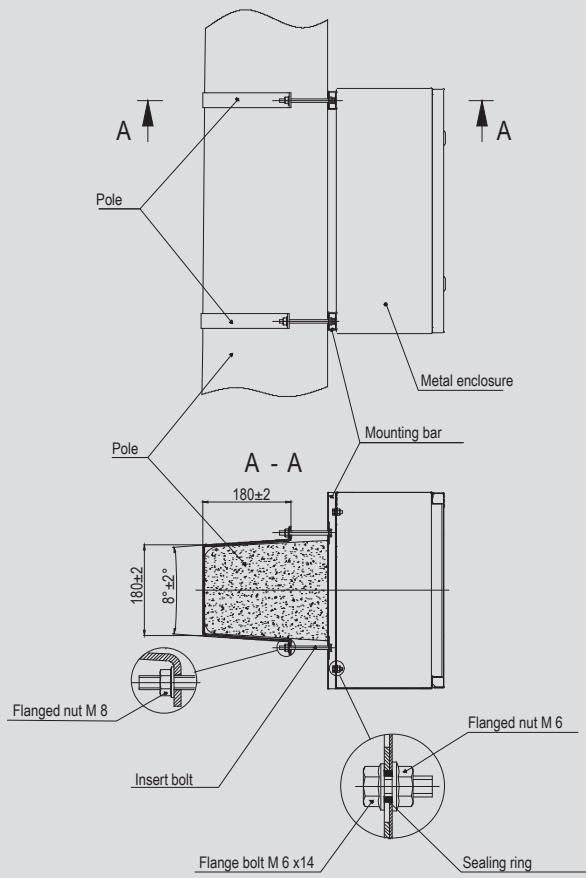
Metallic shells

Metal enclosure with mounting panel LIGHT IP31
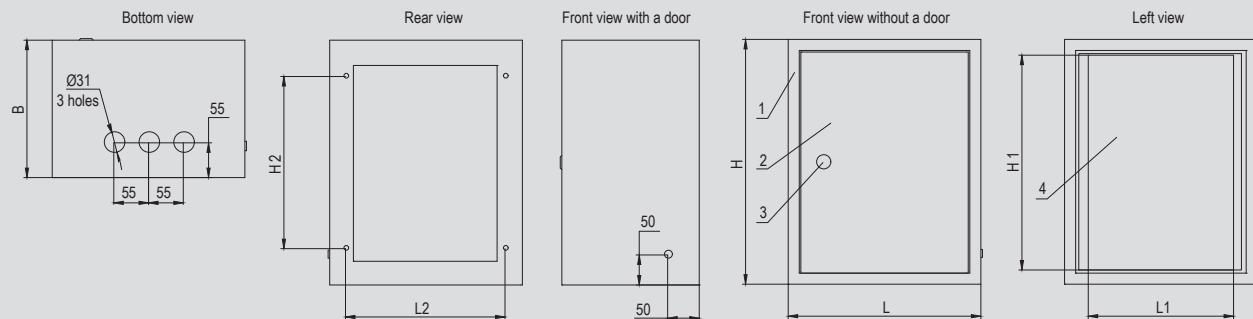
| Bottom view | Rear view | Front view with a door | Front view without a door | Left view |

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-0 LIGHT	395	310	220	340	234	275	255
Metal enclosure with mounting panel-2-0 LIGHT	500	400		440	324	380	345
Metal enclosure with mounting panel-3-0 LIGHT	650	500		590	424	530	445
Metal enclosure with mounting panel-1-1 LIGHT	395	310	150	340	234	275	255
Metal enclosure with mounting panel-2-1 LIGHT	500	400		440	324	380	345
Metal enclosure with mounting panel-3-1 LIGHT	650	500		590	424	530	445

Metal enclosure with mounting panel-1,2,3-3 LIGHT IP54
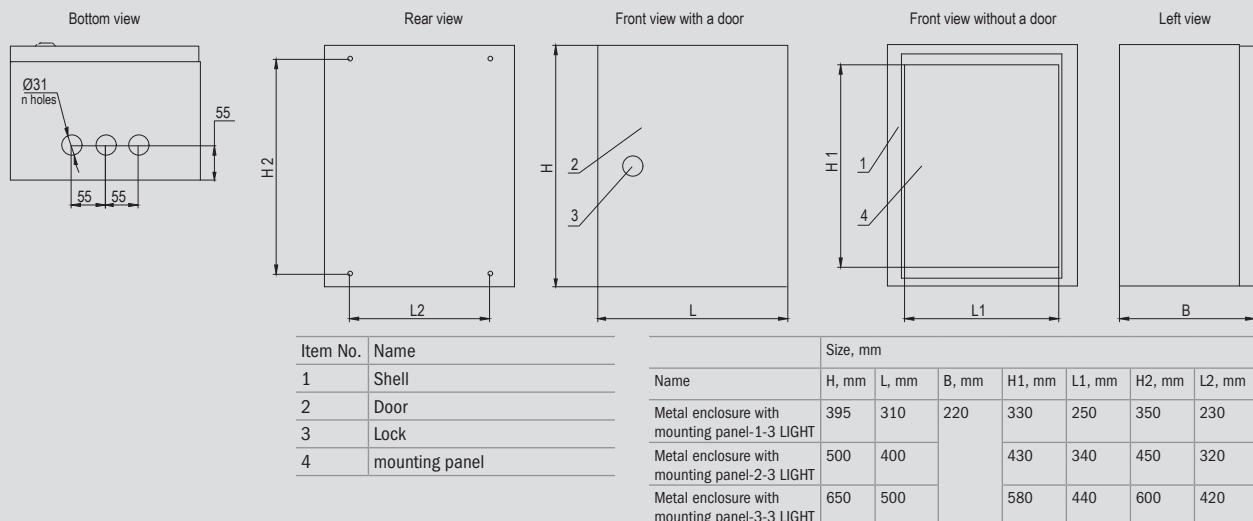
| Bottom view | Rear view | Front view with a door | Front view without a door | Left view |

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-3 LIGHT	395	310	220	330	250	350	230
Metal enclosure with mounting panel-2-3 LIGHT	500	400		430	340	450	320
Metal enclosure with mounting panel-3-3 LIGHT	650	500		580	440	600	420

Metal enclosure with mounting panel-4,5,8-3 LIGHT IP54
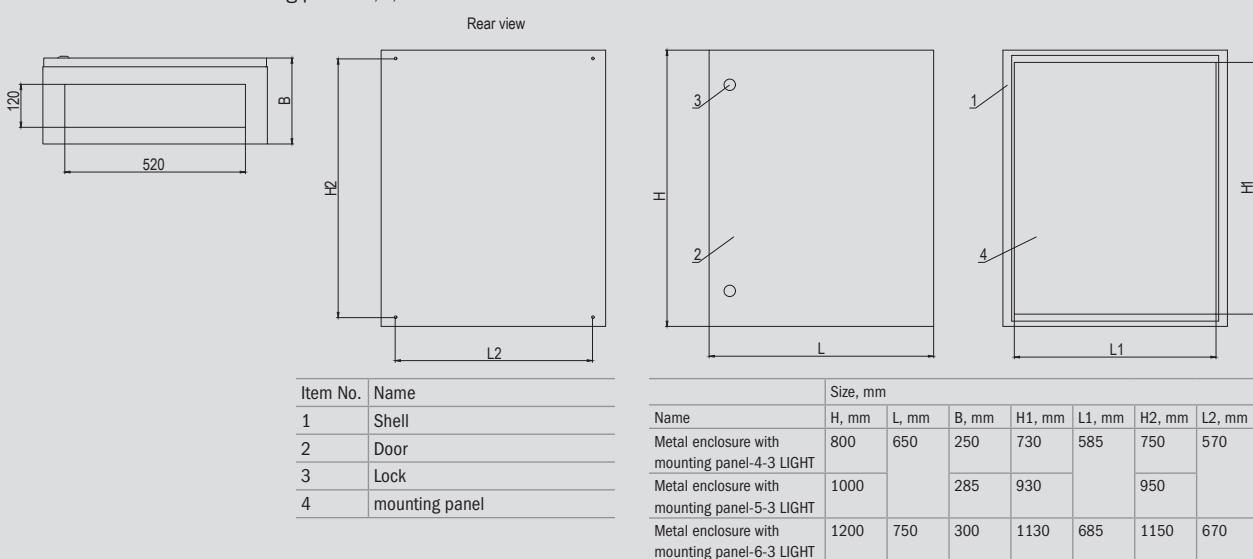
| | Rear view | | |

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-4-3 LIGHT	800	650	250	730	585	750	570
Metal enclosure with mounting panel-5-3 LIGHT	1000		285	930		950	
Metal enclosure with mounting panel-6-3 LIGHT	1200	750	300	1130	685	1150	670

Metal enclosure with mounting panel-1, Metal enclosure with mounting panel-2, Metal enclosure with mounting panel-3 with transparent door IP54
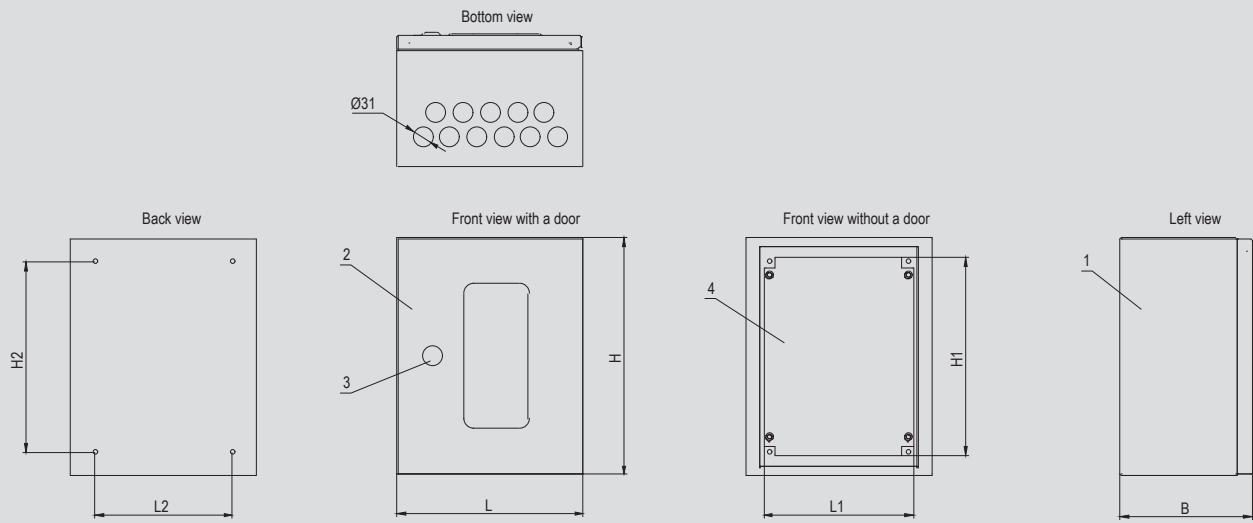
Bottom view

Ø31

Back view · Front view with a door · Front view without a door · Left view

Metal enclosure with mounting panel-4, Metal enclosure with mounting panel-5, Metal enclosure with mounting panel-6, Metal enclosure with mounting panel-7 with transparent door IP54
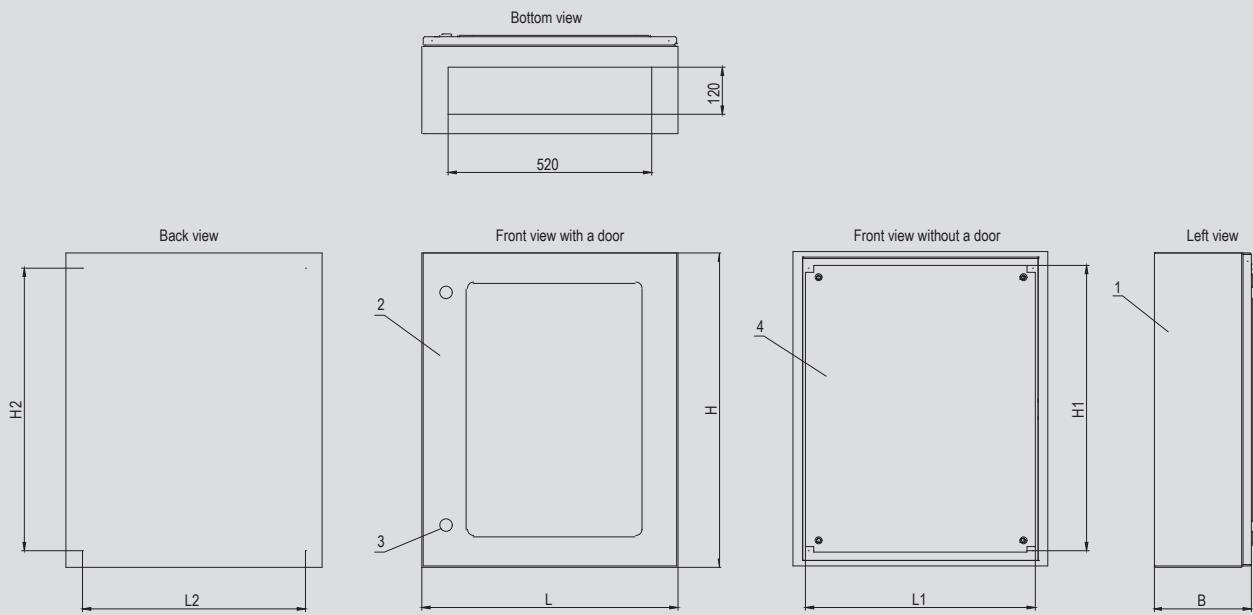
Bottom view

120

520

Back view · Front view with a door · Front view without a door · Left view

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-0 with transparent door	395	310	220	330	250	317	230
Metal enclosure with mounting panel-2-0 with transparent door	500	400		430	340	420	320
Metal enclosure with mounting panel-3-0 with transparent door	650	500		580	440	570	420
Metal enclosure with mounting panel-4-0 with transparent door	800	650	250	730	585	720	570
Metal enclosure with mounting panel-5-0 with transparent door	1000		285	930		920	
Metal enclosure with mounting panel-6-0 with transparent door	1200	750	300	1130	685	1120	670
Metal enclosure with mounting panel-7-0 with transparent door	1400	650	285	1330	585	1320	570

Metal enclosure with mounting panel-1, Metal enclosure with mounting panel-2, Metal enclosure with mounting panel-3 IP54 for automatic fire fighting equipment

Bottom view

Ø31

Back view | Front view with a door | Front view without a door | Left view

H2 | L2 | 2 | 3 | H | L | 4 | H1 | L1 | 1 | B

Metal enclosure with mounting panel-4, Metal enclosure with mounting panel-5, Metal enclosure with mounting panel-6, Metal enclosure with mounting panel-7 IP54 for automatic fire fighting equipment

Bottom view

120

520

Back view | Front view with a door | Front view without a door | Left view

H2 | L2 | 2 | 3 | H | L | 4 | H1 | L1 | 1 | B

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-0	395	310	220	330	250	317	230
Metal enclosure with mounting panel-2-0	500	400		430	340	420	320
Metal enclosure with mounting panel-3-0	650	500		580	440	570	420
Metal enclosure with mounting panel-4-0	800	650	250	730	585	720	570
Metal enclosure with mounting panel-5-0	1000		285	930		920	
Metal enclosure with mounting panel-6-0	1200	750	300	1130	685	1120	670
Metal enclosure with mounting panel-7-0	1400	650	285	1330	585	1320	570

231

Metal enclosure with mounting panel-1.1DMP-2, Metal enclosure with mounting panel-31 R54

Bottom view

Ø31

Back view

Front view with a door

Front view without a door

Left view

H2

L2

2

3

H

L

4

H1

L1

1

B

Metal enclosure with mounting panel-4, Metal enclosure with mounting panel-5, Metal enclosure
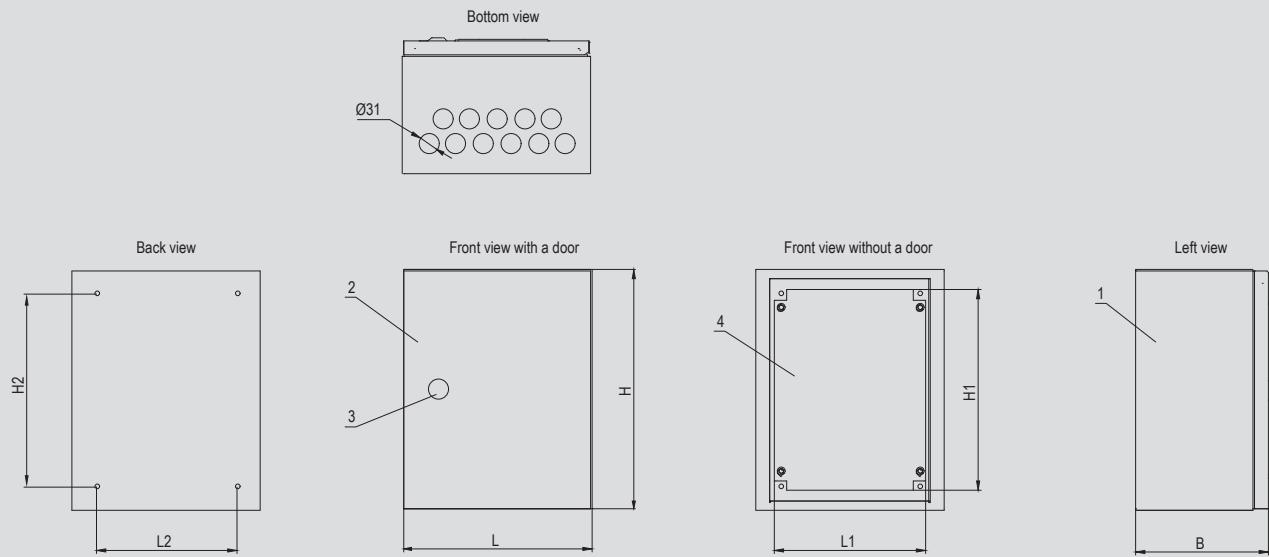with mounting panel-6, Metal enclosure with mounting panel-7 IP54

Bottom view

120

520

Back view
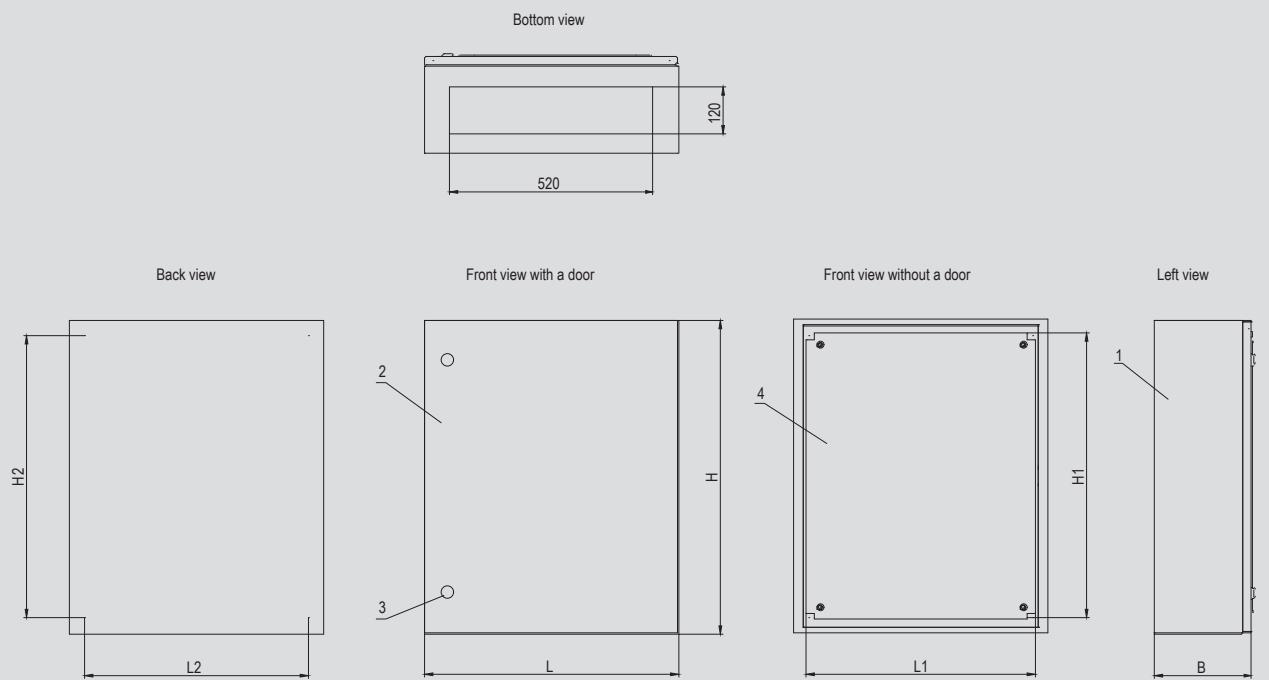
Front view with a door

Front view without a door

Left view

H2

L2

2

3

H

L

4

H1

L1

1

B

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-0	395	310	220	330	250	350	230
Metal enclosure with mounting panel-2-0	500	400		430	340	450	320
Metal enclosure with mounting panel-3-0	650	500		580	440	600	420
Metal enclosure with mounting panel 4-0	800	650	250	730	585	750	570
Metal enclosure with mounting panel-5-0	1000		285	930		950	
Metal enclosure with mounting panel-6-0	1200	750	300	1130	685	1150	670
Metal enclosure with mounting panel-7-0	1400	650	285	1330	585	1350	570

Metal enclosure with mounting panel-2.3.1, Metal enclosure with mounting panel-3.2.1. Metal enclosure with mounting panel-4.2.1.

Metal enclosure with mounting panel-4.4.1, Metal enclosure with mounting panel-4.4.2, Metal enclosure with mounting panel-4.6.1,

Metal enclosure with mounting panel-4.6.2, Metal enclosure with mounting panel-6.6.1, Metal enclosure with mounting panel-6.6.2 IP54

Metal enclosure with mounting panel-2.3.1, Metal enclosure with mounting panel-3.2.1, Metal enclosure with mounting panel-4.2.1,

Metal enclosure with mounting panel-4.4.1, Metal enclosure with mounting panel-4.4.2, Metal enclosure with mounting panel-4.6.1,

Metal enclosure with mounting panel-4.6.2.Metal enclosure with mounting panel-6.6.1.Metal enclosure with mounting panel-6.6.2 IP31
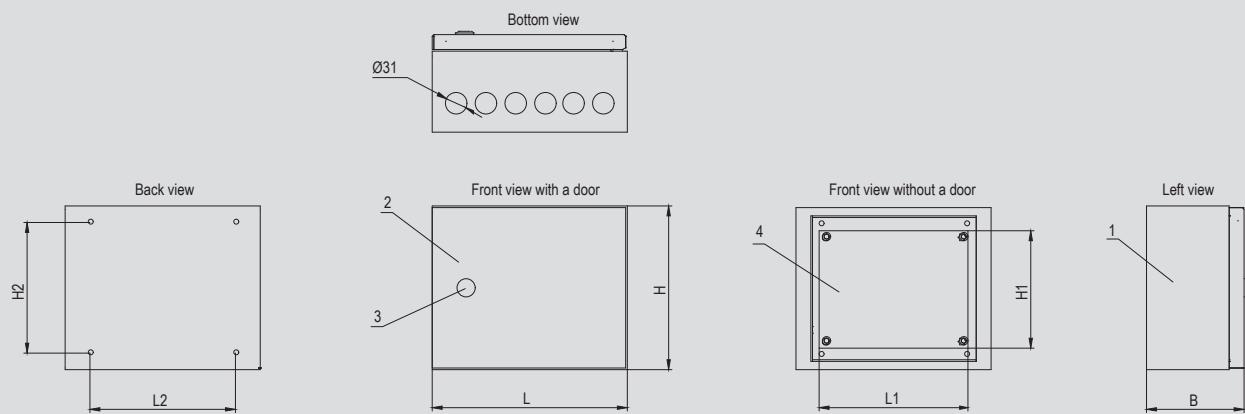
Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-2.3.1-0.	250	300	150	180	230	200	225
Metal enclosure with mounting panel-3.2.1-0.	300	210		230	140	250	135
Metal enclosure with mounting panel-4.2.1-0	400			330		350	
Metal enclosure with mounting panel-4.4.1-0		400			330		325
Metal enclosure with mounting panel-4.4.2-0			250				
Metal enclosure with mounting panel-4.6.1-0			150		530		525
Metal enclosure with mounting panel-4.6.2-0		600	250				
Metal enclosure with mounting panel-6.6.1-0	600		150	530		550	
Metal enclosure with mounting panel-6.6.2-0			250				

Dimensions

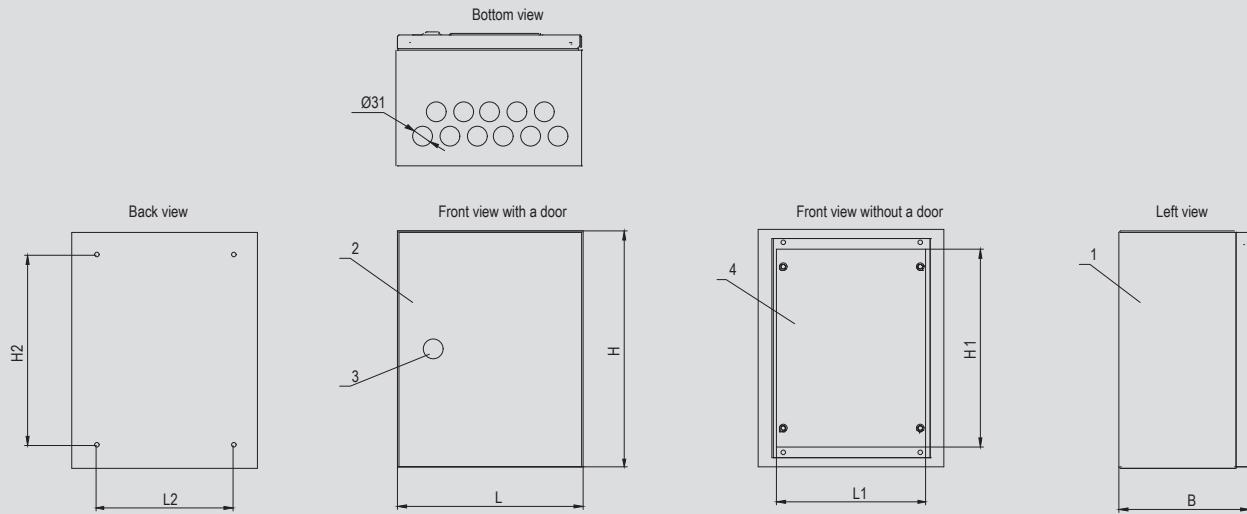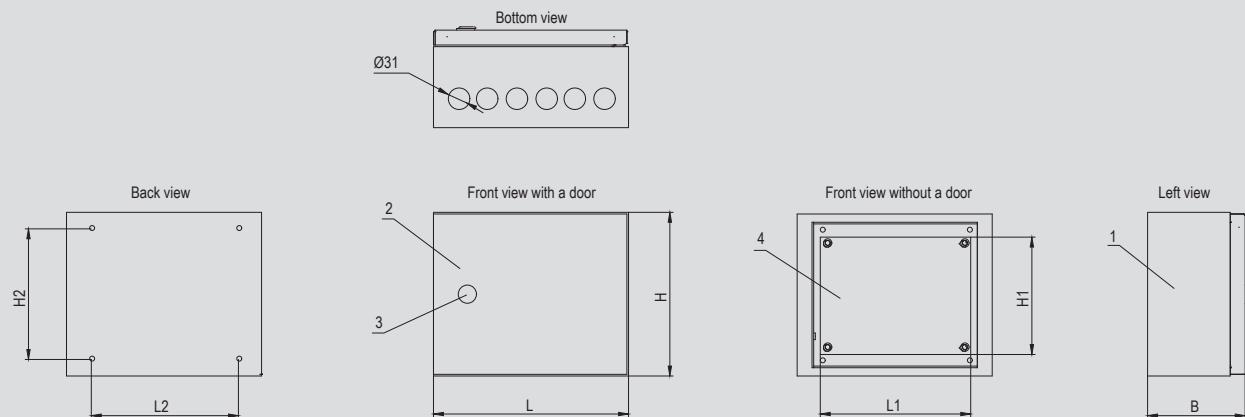Metal enclosure with mounting panel-1, Metal enclosure with mounting panel-2, Metal enclosure with mounting panel-3, Metal enclosure with mounting panel-4, Metal enclosure with mounting panel-5. Metal enclosure with mounting panel-6, Metal enclosure with mounting panel-7 IP31
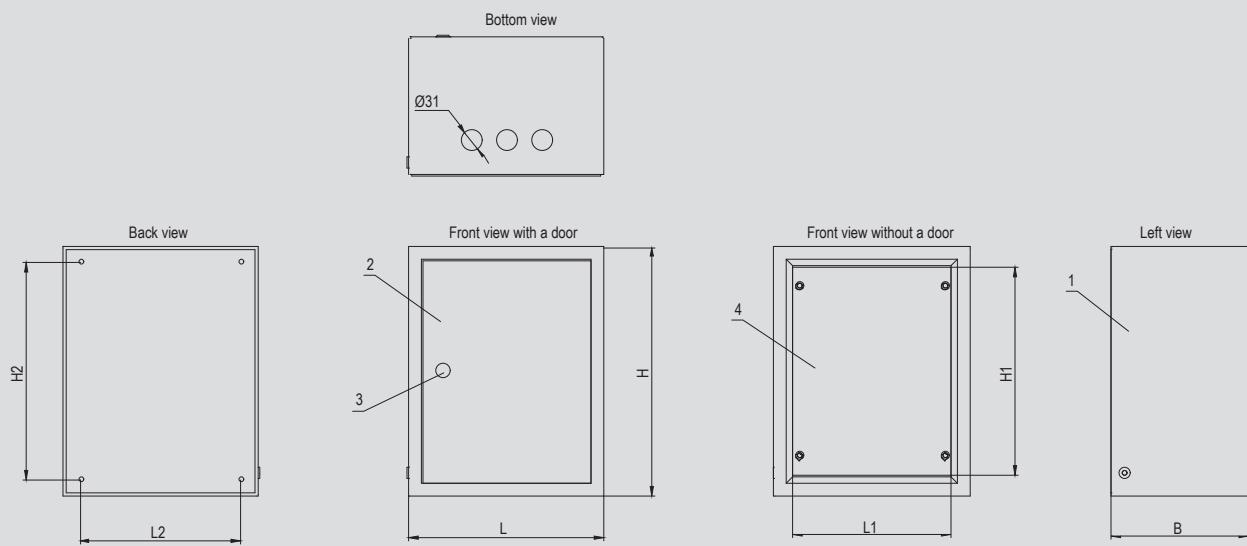
Bottom view

Back view | Front view with a door | Front view without a door | Left view

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-0	395	310	220	330	250	345	260
Metal enclosure with mounting panel-2-0	500	400		430	340	450	350
Metal enclosure with mounting panel-3-0	650	500		580	440	600	450
Metal enclosure with mounting panel-4-0	800	650	250	730	585	750	600
Metal enclosure with mounting panel-5-0	1000			930		950	
Metal enclosure with mounting panel-6-0	1200	750	300	1130	685	1150	700
Metal enclosure with mounting panel-7-0	1320			1250	690	1270	

Metal enclosure with mounting panel-1, Metal enclosure with mounting panel-2, Metal enclosure with mounting panel-3 1R31
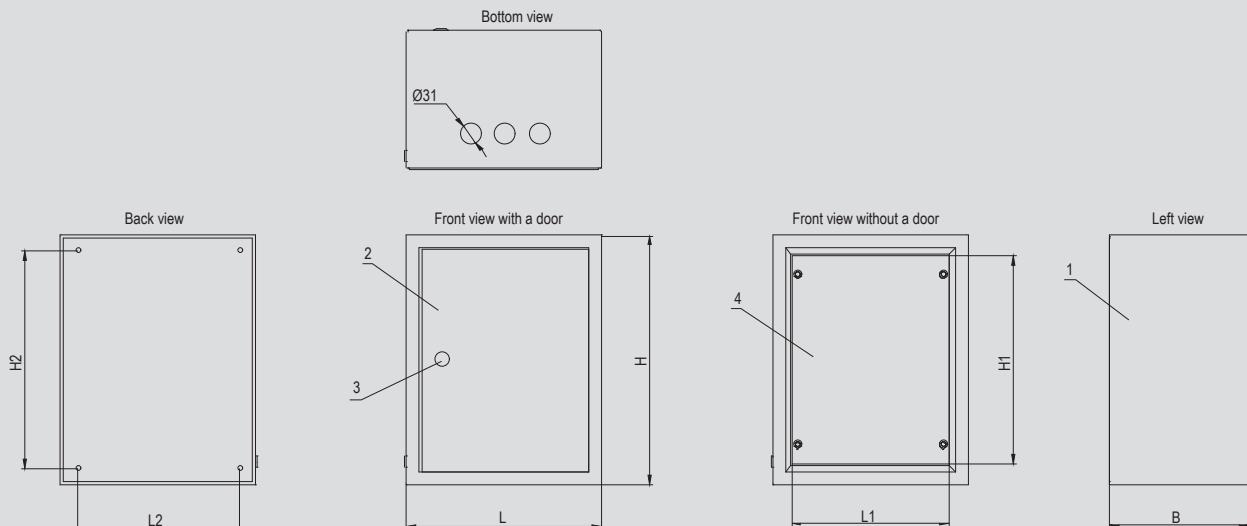
Bottom view

Back view | Front view with a door | Front view without a door | Left view

Item No.	Name
1	Shell
2	Door
3	Lock
4	mounting panel

Name	Size, mm						
	H, mm	L, mm	B, mm	H1, mm	L1, mm	H2, mm	L2, mm
Metal enclosure with mounting panel-1-1	395	310	150	330	250	345	260
Metal enclosure with mounting panel-2-1	500	400		430	340	450	350
Metal enclosure with mounting panel-3-1	650	500		580	440	600	450

Dimensions

Accessories for the metal enclosure with mounting panel

Applicability	L, mm	L1, mm
Mounting panel for metal enclosure with mounting panel-1 GARANT H=150	250	230
Mounting panel for metal enclosure with mounting panel-2 GARANT H=150	340	320
Mounting panel for metal enclosure with mounting panel-3 GARANT H=150	440	420
Mounting panel for metal enclosure with mounting panel-4 (5,6,7) GARANT H=150	590	567
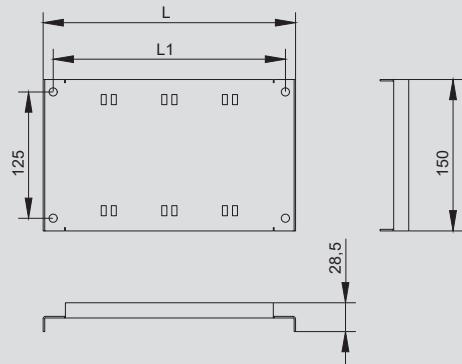
| Applicability	H, mm
Mounting profile for metal enclosure with mounting panel-1 GARANT	387
Mounting profile for metal enclosure with mounting panel-2 GARANT	492
Mounting profile for metal enclosure with mounting panel-3 GARANT	642
Mounting profile for metal enclosure with mounting panel-4 GARANT	770
Mounting profile for metal enclosure with mounting panel-5 GARANT	970
Mounting profile for metal enclosure with mounting panel-6 GARANT	1170
Mounting profile for metal enclosure with mounting panel-7 GARANT	1370

Applicability	H, mm
Seat angle for metal enclosure with mounting panel-1 GARANT	387
Seat angle for metal enclosure with mounting panel-2 GARANT	492
Seat angle for metal enclosure with mounting panel-3	642
Seat angle for metal enclosure with mounting panel-4 GARANT	770
Seat angle for metal enclosure with mounting panel-5 GARANT	970
Seat angle for metal enclosure with mounting panel-6 GARANT	1170
Seat angle for metal enclosure with mounting panel-7 GARANT	1370
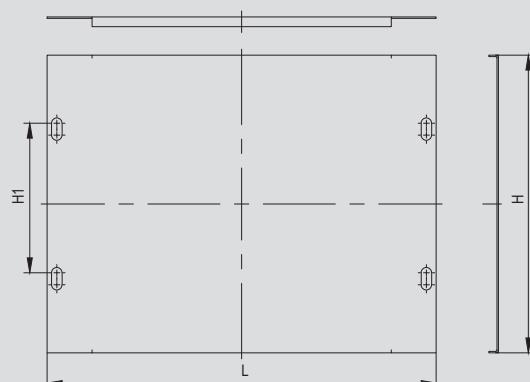
Name	L, mm	H, mm	H1, mm
LG panel for the metal enclosure with mounting panel-136 PRO/BAR ANT (H=50)	260	49	–
LG panel for the metal enclosure with mounting panel-136 PRO/GAR AHT (H=150)	260	149	100
LG panel for the metal enclosure with mounting panel-136 PRO/GAR AHT (H=200)	260	199	100
LG panel for the metal enclosure with mounting panel-2 36 PRO/GAR AHT (H=150)	350	149	100
LG panel for the metal enclosure with mounting panel-2 36 PRO/GAR AHT (H=300)	350	299	200
LG panel for the metal enclosure with mounting panel-3 36 PRO/GARAHT (H=150)	450	149	100
LG panel for the metal enclosure with mounting panel-3 36 PRO/GARAHT (H=450)	450	449	300
LG panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PRO/GARAHT (H=50)	600	49	–
LG panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PRO/GARAHT (H=150)	600	149	100
LG panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PRO/GARAHT (H=300)	600	299	200
LG panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PRO/GARAHT (H=400)	600	399	250
LG panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PRO/GAR AHT (H=500)	600	499	300
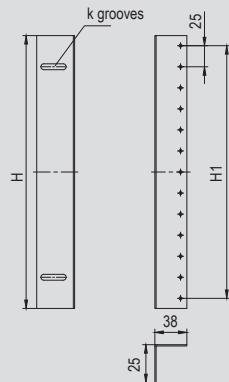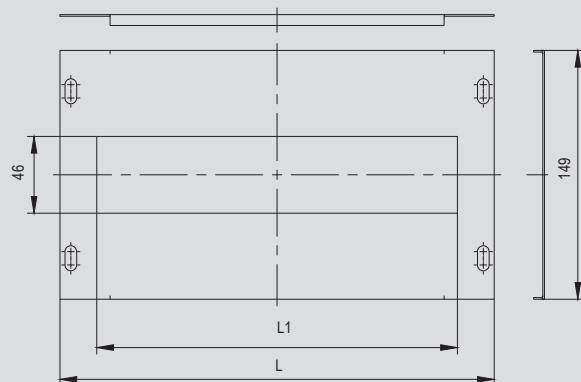
Name	L, mm	L1, mm
LMA panel for the metal enclosure with mounting panel-136 PRO/GAR AN	260	216
LMA panel for the metal enclosure with mounting panel-2 36 PRO/GARANT	350	308
LMA panel for the metal enclosure with mounting panel-3 36 PRO/GARANT	450	398
LMA panel for the metal enclosure with mounting panel-4 (5,6,7) 36 PR/GARANT	600	498

Name	H, mm	H1, mm	k, pcs.
Angle of the front panel of the metal enclosure with mounting panel-1 PRO	324	300	2
Angle of the front panel of the metal enclosure with mounting panel-2 PRO	424	400	2
Angle of the front panel of the metal enclosure with mounting panel-3 PRO	574	550	2
Angle of the front panel of the metal enclosure with mounting panel-4 PRO	724	700	3
Angle of the front panel of the metal enclosure with mounting panel-5 PRO	924	900	3
Angle of the front panel of the metal enclosure with mounting panel-6 PRO	1124	1100	4
Angle of the front panel of the metal enclosure with mounting panel-7 PRO	1324	1300	4

Dimensions

Dimensions of the metal assembling enclosure for incoming and distribution switchboard __x__x__ IP31 SMART
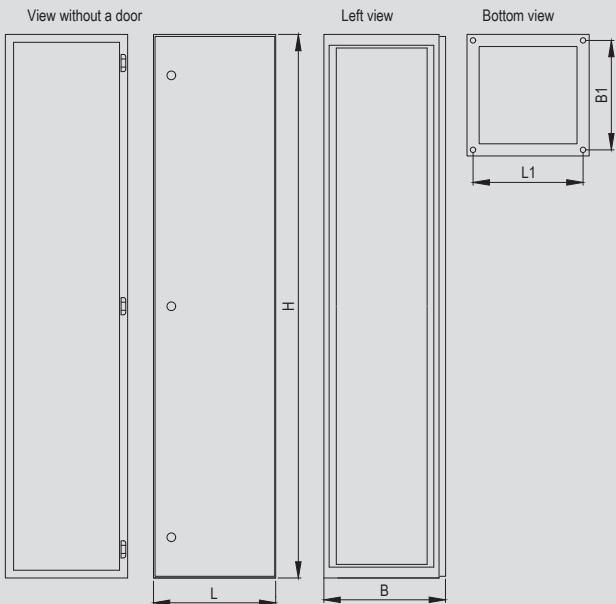
View without a door   Left view   Bottom view

Applicability	Size, mm				
	H	L	L1	B	B1
Metal assembling enclosure for incoming and distribution switchboard 1800×450×450 IP31 SMART	1800	450	410	446	383
Metal assembling enclosure for incoming and distribution switchboard 1800×600×450 IP31 SMART	1800	600	560	446	383
Metal assembling enclosure for incoming and distribution switchboard 1800×600×600 IP31 SMART	1800	600	560	596	533
Metal assembling enclosure for incoming and distribution switchboard 1800×800×450 IP31 SMART	1800	800	760	446	383
Metal assembling enclosure for incoming and distribution switchboard 1800×800×600 IP31 SMART	1800	800	760	596	533
Metal assembling enclosure for incoming and distribution switchboard 2000×450×450 IP31 SMART	2000	450	410	446	383
Metal assembling enclosure for incoming and distribution switchboard 2000×600×450 IP31 SMART	2000	600	560	446	383
Metal assembling enclosure for incoming and distribution switchboard 2000×600×600 IP31 SMART	2000	600	560	596	533
Metal assembling enclosure for incoming and distribution switchboard 2000×800×450 IP31 SMART	2000	800	760	446	383
Metal assembling enclosure for incoming and distribution switchboard 2000×800×600 IP31 SMART	2000	800	760	596	533

Dimensions of the metal assembling enclosure for incoming and distribution switchboard-2 __x__x__ IP31 SMART

View without a door   Left view   Bottom view

Applicability	Size, mm				
	H	L	L1	B	B1
Metal assembling enclosure for incoming and distribution switchboard 2 1800×600×450 IP31 SMART	1800	600	560	446	383
Metal assembling enclosure for incoming and distribution switchboard 2 1800×600×600 IP31 SMART	1800	600	560	596	533
Metal assembling enclosure for incoming and distribution switchboard 2 1800×800×450 IP31 SMART	1800	800	760	446	383
Metal assembling enclosure for incoming and distribution switchboard 2 1800×800×600 IP31 SMART	1800	800	760	596	533
Metal assembling enclosure for incoming and distribution switchboard 2 2000×600×450 IP31 SMART	2000	600	560	446	383
Metal assembling enclosure for incoming and distribution switchboard 2 2000×600×600 IP31 SMART	2000	600	560	596	533
Metal assembling enclosure for incoming and distribution switchboard 2 2000×800×450 IP31 SMART	2000	800	760	446	383
Metal assembling enclosure for incoming and distribution switchboard 2 2000×800×600 IP31 SMART	2000	800	760	596	533

Accessories for the metal assembling enclosure for incoming and distribution switchboard

Bracket for N/PE busbars
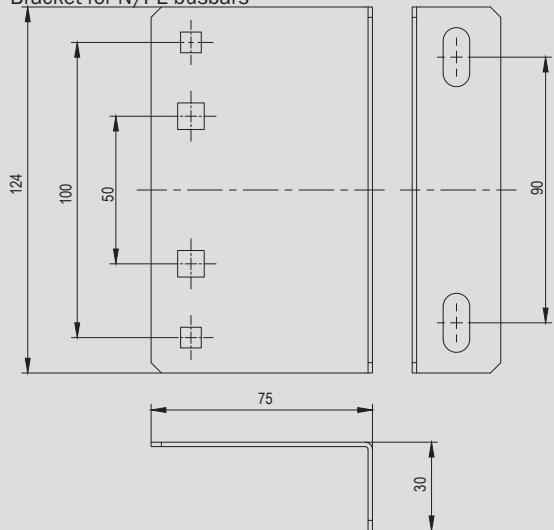
Installation plate
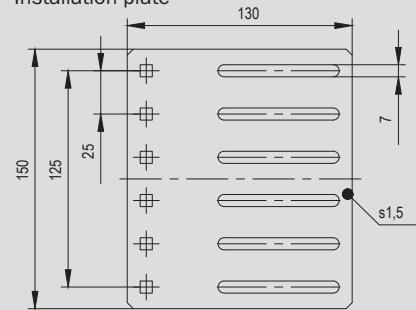
Bracket-XX for DIN rail
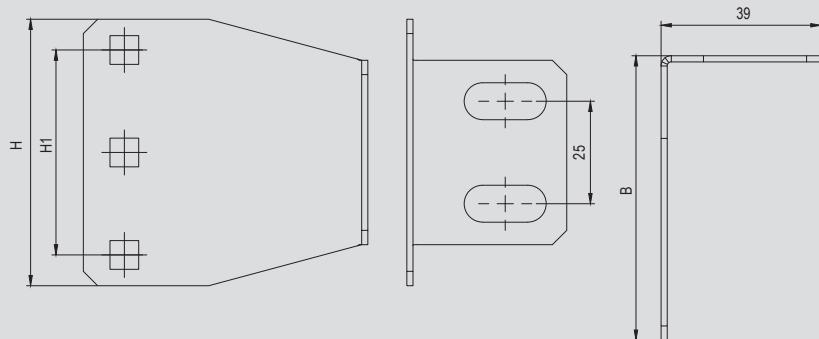
Name	Size, mm		
	H	H1	B
Bracket -45 for DIN rail	40	25	44.4
Bracket -70 for DIN rail	65	50	69.4
Bracket -95 for DIN rail	65	50	94.4

Bracket-XX for DIN rail
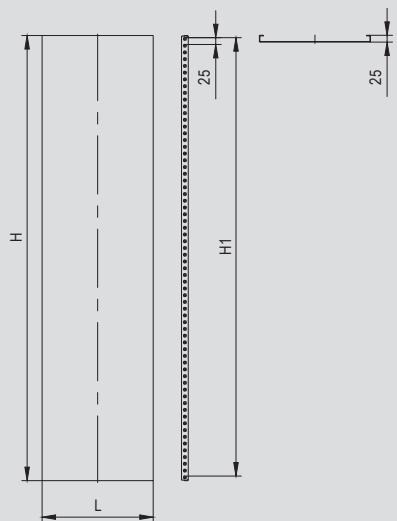
Bracket-XX for DIN rail
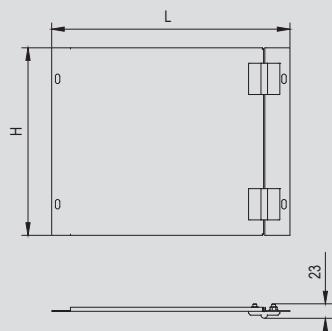
Name	Size, mm		
	L	H	H1
Mounting panel 1650×412 SMART	412	1650	1625
Mounting panel 1650×562 SMART	562	1650	1625
Mounting panel 1650×762 SMART	762	1650	1625
Mounting panel 1850×412 SMART	412	1850	1825
Mounting panel 1850×562 SMART	562	1850	1825
Mounting panel 1850×762 SMART	762	1850	1825

Name	Size, mm	
	L	H
Operational rotary panel SMART (H = 300) 450	380	300
Operative rotary panel SMART (H=300) 600	530	300
Operative rotary panel SMART (H=300) 800	730	300
Operational rotary panel SMART (H = 600) 450	380	600
Operative rotary panel SMART (H=600) 600	530	600
Operational rotary panel SMART (H = 600) 800	730	600

Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART
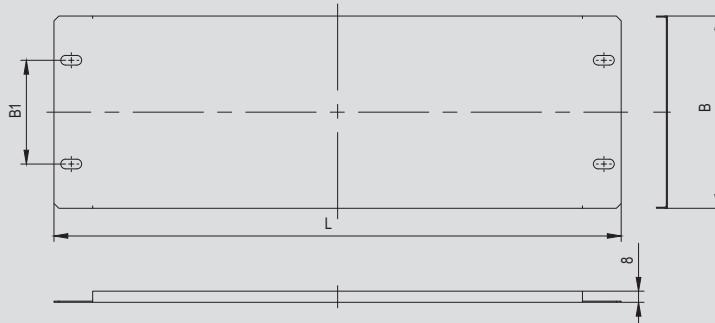
Name	Size, mm		
	B	B1	L
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H=140) SMART	139	75	410
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H=200) SMART	199	125	410
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H=290) SMART	289	225	410
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×450 (H=340) SMART	339	175	410
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×600 (H=490) SMART	489	325	410
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=140) SMART	139	75	560
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=200) SMART	199	125	560
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=290) SMART	289	225	560
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×450 (H=340) SMART	339	175	560
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×600 (H=490) SMART	489	325	560
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H=140) SMART	139	75	760
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H=200) SMART	199	125	760
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX (H=290) SMART	289	225	760
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×450 (H=340) SMART	339	175	760
Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×600 (H=490) SMART	489	325	760

Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART

Name	Size, mm	
	L	L1
Cross profile 412 for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	412	350
Cross profile 562 for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART	562	500
Cross profile 762 for the metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART	762	700

Shelf for the metal assembling enclosure for incoming and distribution switchboard XXXXxXXXxXXX SMART

Name	Size, mm	
	H	L
Frame for the LG/LMA panels for the metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX (H=600) SMART	600	392
Frame for the LG/LMA panels for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=600) SMART	600	542
Frame for the LG/LMA panels for the metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX (H=600) SMART	600	742
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1100) SMART	1100	392
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×450×XXX (H=1750) SMART	1750	392
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1100) SMART	1100	542
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×600×XXX (H=1750) SMART	1750	542
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1100) SMART	1100	742
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 1800×800×XXX (H=1750) SMART	1750	742
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1300) SMART	1300	392
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×450×XXX (H=1950) SMART	1950	392
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1300) SMART	1300	542
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×600×XXX (H=1950) SMART	1950	542
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1300) SMART	1300	742
Frame for LG/LMA panels for metal assembling enclosure for incoming and distribution switchboard 2000×800×XXX (H=1950) SMART	1950	742

Dimensions

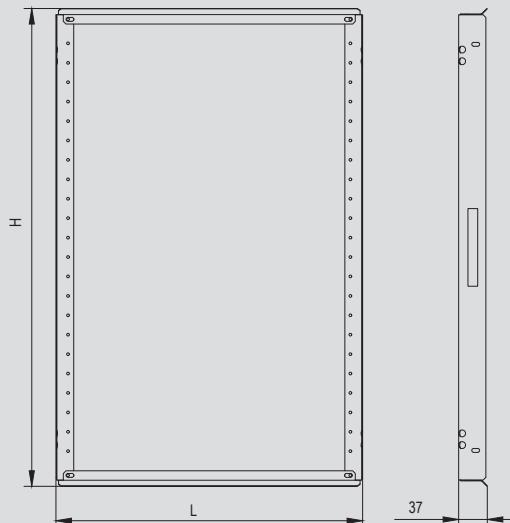Shelf for the metal assembling enclosure for incoming and distribution switchboard SMART
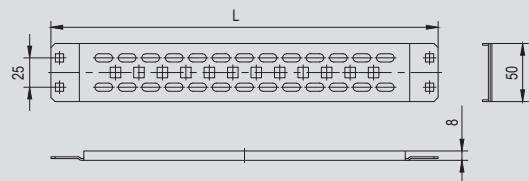
Name	L, mm
Side rail for the metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×450 SMART	330
Side rail for the metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART	480
Side rail for the metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×800 SMART	680

Crossbar for the metal assembling enclosure for incoming and distribution switchboard SMART
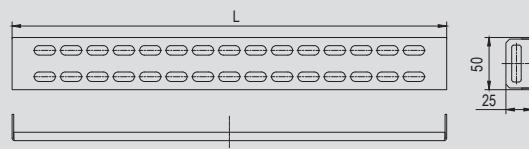
Name	L, mm
Crossbar 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	412
Crossbar 562 for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART	562
Crossbar 762 for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART	762

Single-row crossbar SMART
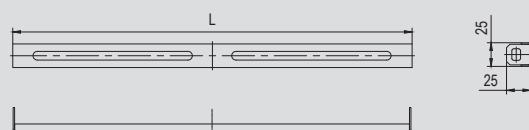
Name	L, mm
Single-row crossbar 412 SMART	412
Single row crossbar 562 SMART	562
Single-row crossbar 762 SMART	762

Double-row crossbar SMART
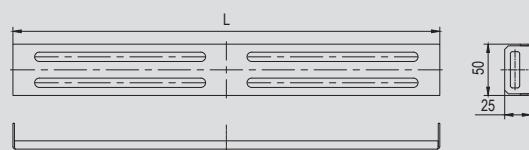
Name	L, mm
Double-row crossbar 412 SMART	412
Double-row crossbar 562 SMART	562
Double-row crossbar 762 SMART	762

Equipment angle SMART
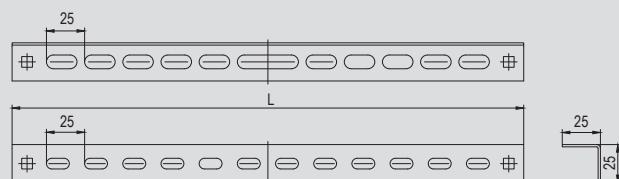
Name	L, mm
Equipment angle 450 SMART	335
Equipment angle 450 SMART	485

Side U-profile for the metal assembling enclosure for incoming and distribution switchboard
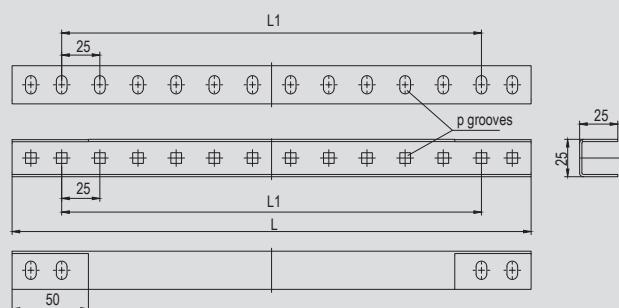
Name	L, mm	L1, mm	n, pcs.
Side U-profile for the metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×450 SMART	340	275	12
Side U-profile for the metal assembling enclosure for incoming and distribution switchboard XXXX×XXX×600 SMART	490	425	18

Rail
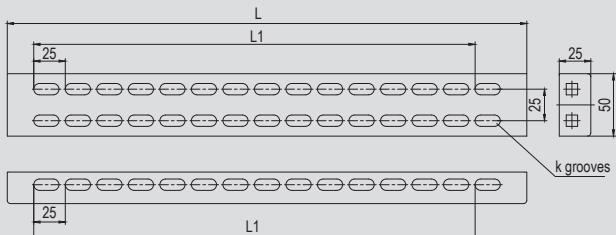
Name	L, mm	L1, mm	n, pcs.
Rail 412 for metal assembling enclosure for incoming and distribution switchboard XXXX×450×XXX SMART	412	350	45
Rail 562 for metal assembling enclosure for incoming and distribution switchboard XXXX×600×XXX SMART	562	500	63
Rail 762 for metal assembling enclosure for incoming and distribution switchboard XXXX×800×XXX SMART	762	700	87

mounting panel
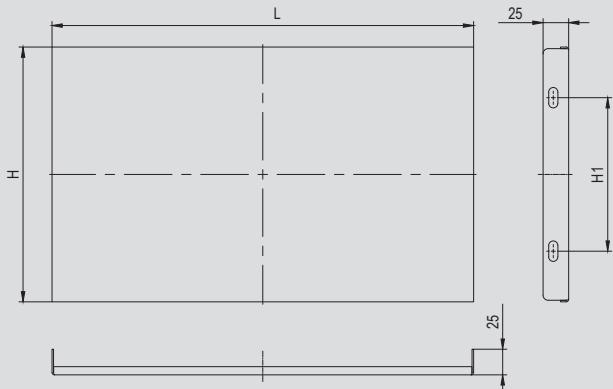
Name	H, mm	L, mm	H1, mm
Mounting panel 250×412 SMART	249	412	150
Mounting panel 500×412 SMART	499	412	400
Mounting panel 250×562 SMART	249	562	150
Mounting panel 500×562 SMART	499	562	400
Mounting panel 250×762 SMART	249	762	150
Mounting panel 500×762 SMART	499	762	400

Side panel
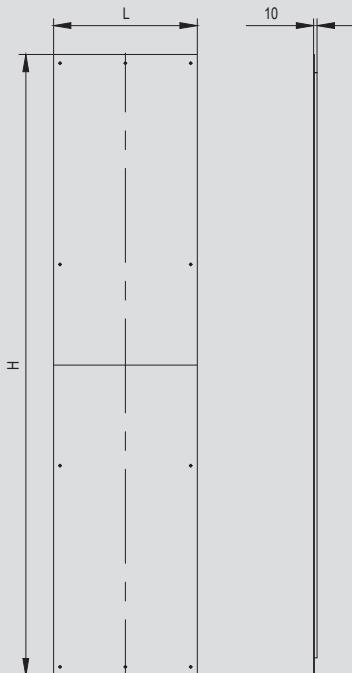
Name	H, mm	L, mm
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800. XXX.450 IP54 SMART	1797	415,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800. XXX.600 IP54 SMART	1797	565,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000. XXX. 450 IP54 SMART	1997	415,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000. XXX. 450 IP54 SMART	1997	565,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800. XXX. 450 SMART	1797	415,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800. XXX. 600 SMART	1797	565,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 1800. XXX. 800 SMART	1797	765,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000. XXX. 450 SMART	1997	415,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000. XXX. 600 SMART	1997	565,6
Side panel for metal assembling enclosure for incoming and distribution switchboard 2000. XXX. 800 SMART	1997	765,6

Partition for metal assembling enclosure for incoming and distribution switchboard SMART
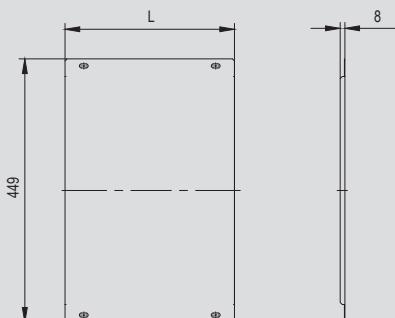
Name	L, mm
Partition 450×290 for metal assembling enclosure for incoming and distribution switchboard SMART	289
Partition 450×440 for metal assembling enclosure for incoming and distribution switchboard SMART	439
Partition 450×640 for metal assembling enclosure for incoming and distribution switchboard SMART	639

Dimensions

TITAN metal assembling enclosure for incoming and distribution switchboard-1

View without a door

Left view

Bottom view
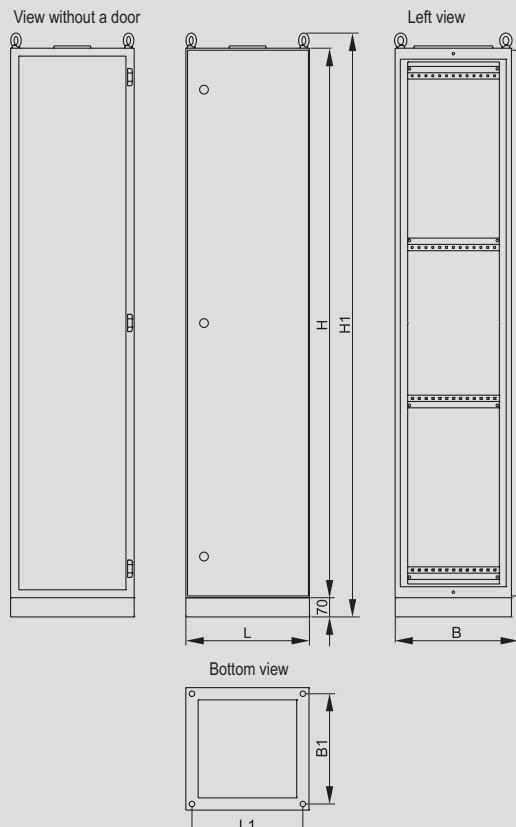
Type	Size, mm					
	H	H1	L	L1	B	B1
Metal assembling enclosure for incoming and distribution switchboard-1-18.45.45 IP31	1800	1926	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.60.45 IP31	1800	1926	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.60.60 IP31	1800	1926	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-18.80.45 IP31	1800	1926	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.80.60 IP31	1800	1926	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-20.45.45 IP31	2000	2126	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.60.45 IP31	2000	2126	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.60.60 IP31	2000	2126	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-20.80.45 IP31	2000	2126	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.80.60 IP31	2000	2126	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-18.45.45 IP54	1800	1926	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.60.45 IP54	1800	1926	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.60.60 IP54	1800	1926	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-18.80.45 IP54	1800	1926	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-18.80.60 IP54	1800	1926	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-20.45.45 IP54	2000	2126	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.60.45 IP54	2000	2126	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.60.60 IP54	2000	2126	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-1-20.80.45 IP54	2000	2126	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-1-20.80.60 IP54	2000	2126	800	760	600	533

TITAN metal assembling enclosure for incoming and distribution switchboard-2

View without a door

Left view

Bottom view

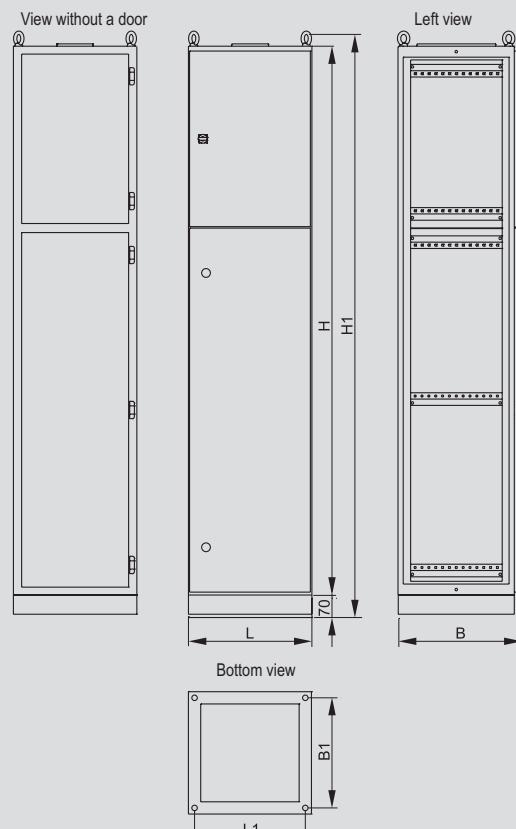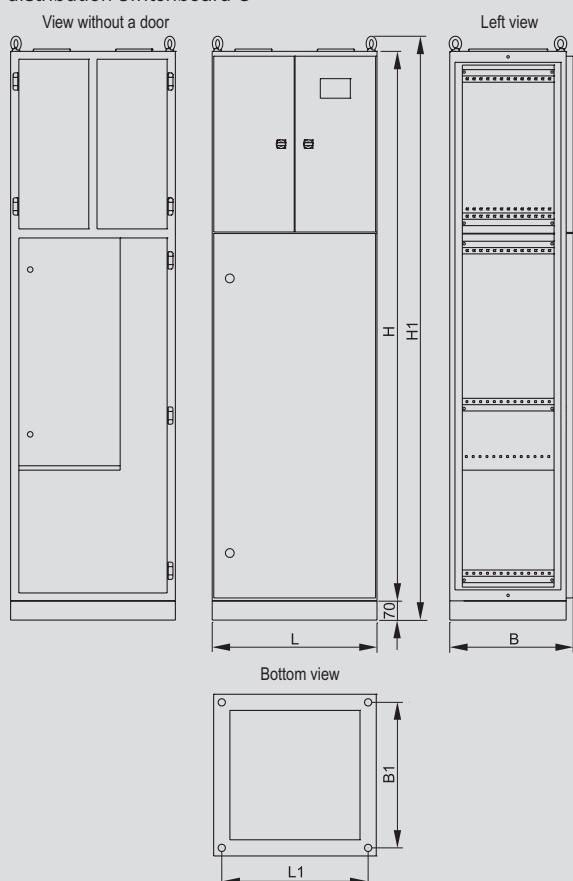| Type	Size, mm					
	H	H1	L	L1	B	B1
Metal assembling enclosure for incoming and distribution switchboard-2-18.45.45 IP31	1800	1926	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.60.45 IP31	1800	1926	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.60.60 IP31	1800	1926	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-18.80.45 IP31	1800	1926	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.80.60 IP31	1800	1926	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-20.45.45 IP31	2000	2126	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.60.45 IP31	2000	2126	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.60.60 IP31	2000	2126	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-20.80.45 IP31	2000	2126	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.80.60 IP31	2000	2126	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-18.45.45 IP54	1800	1926	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.60.45 IP54	1800	1926	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.60.60 IP54	1800	1926	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-18.80.45 IP54	1800	1926	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-18.80.60 IP54	1800	1926	800	760	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-20.45.45 IP54	2000	2126	450	410	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.60.45 IP54	2000	2126	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.60.60 IP54	2000	2126	600	560	600	533
Metal assembling enclosure for incoming and distribution switchboard-2-20.80.45 IP54	2000	2126	800	760	450	383
Metal assembling enclosure for incoming and distribution switchboard-2-20.80.60 IP54	2000	2126	800	760	600	533

Dimensions

241

TITAN metal assembling enclosure for incoming and distribution switchboard-3

View without a door

Left view

Bottom view

Type	Size, mm					
	H	H1	L	L1	B	B1
Metal assembling enclosure for incoming and distribution switchboard-3-20.60.45 IP31	2000	2126	600	560	450	383
Metal assembling enclosure for incoming and distribution switchboard-3-20.60.45 IP54	2000	2126	600	560	450	383

Accessories for TITAN metal assembling enclosures for incoming and distribution switchboards

Side panel for TITAN metal assembling enclosures for incoming and distribution switchboards
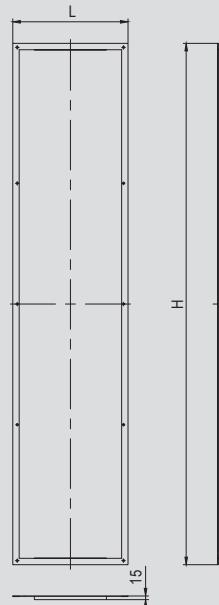
Name	H, mm	L, mm
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 18. XX. 45 IP31 TITAN	1717	380
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 18. XX. 45 IP54 TITAN	1717	380
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 18. XX. 60 IP31 TITAN	1717	530
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 18. XX. 60 IP54 TITAN	1717	530
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 20. XX. 45 IP31 TITAN	1917	380
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 20. XX. 45 IP54 TITAN	1917	380
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 20. XX. 60 IP31 TITAN	1917	530
Dock panel for the metal assembling enclosure for incoming and distribution switchboard 20. XX. 60 IP54 TITAN	1917	530

Dimensions

![IEK logo]
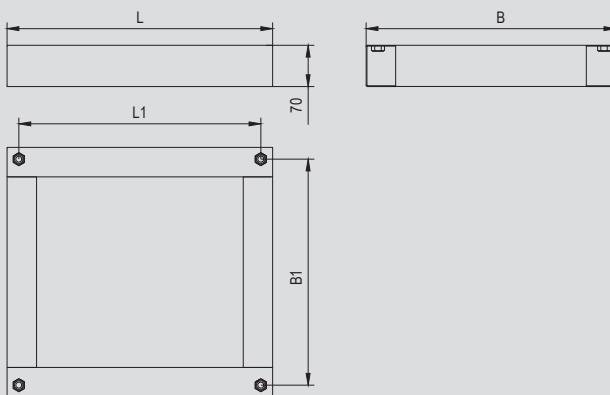
Base

Type	Size, mm			
	L	L1	B	B1
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP31 TITAN	450	410	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.45.45 IP54 TITAN	450	410	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP31 TITAN	600	560	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.45 IP54 TITAN	600	560	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP31 TITAN	600	560	573	533
Base of metal assembling enclosure for incoming and distribution switchboard xx.60.60 IP54 TITAN	600	560	573	533
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP31 TITAN	800	760	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.45 IP54 TITAN	800	760	423	383
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP31 TITAN	800	760	573	533
Base of metal assembling enclosure for incoming and distribution switchboard xx.80.60 IP54 TITAN	800	760	573	533

Vertical angle 900 ... 1750

Name	L, mm
Vertical angle 900 TITAN	900
Vertical angle 1100 TITAN	1100
Vertical angle 1550 TITAN	1550
Vertical angle 1750 TITAN	1750

Vertical angle 600, 700
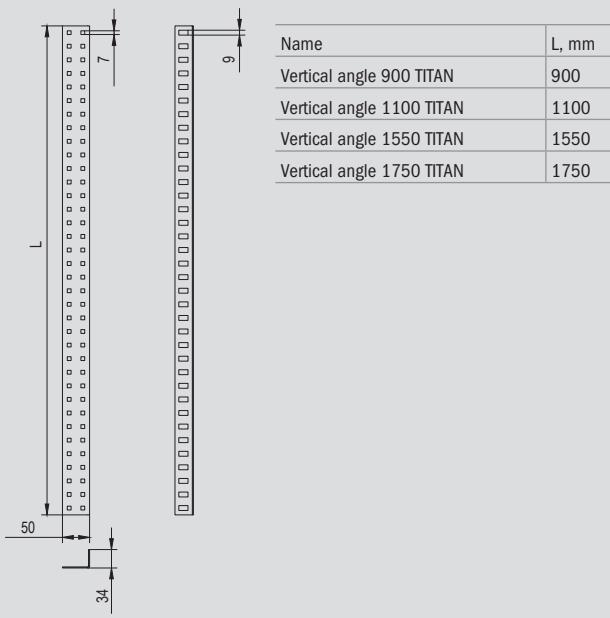
Name	L, mm
Vertical angle 600 TITAN	600
Vertical angle 700 TITAN	700
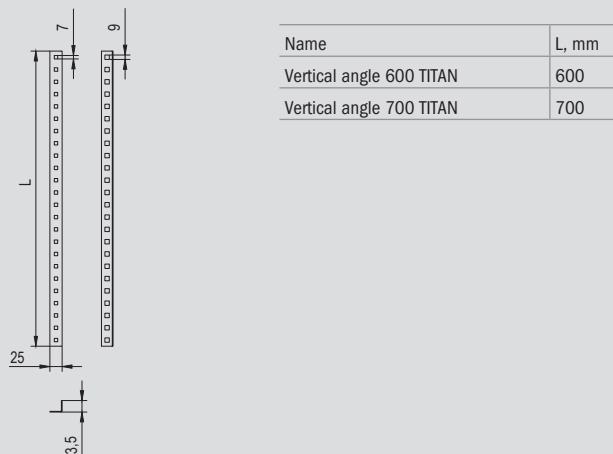
Bar
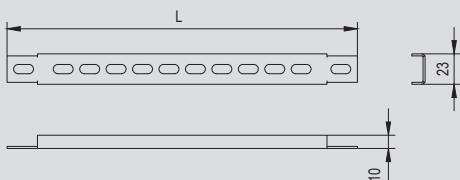
Name	L, mm
Bar 265 TITAN	265
Bar 365 TITAN	365
Bar 530 TITAN	530
Bar 730 TITAN	730

PN panel
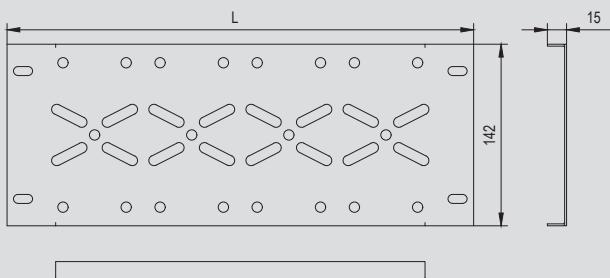
Name	L, mm
Panel PN-365 TITAN	365
Panel PN-530 TITAN	530
Panel PN-730 TITAN	730

Dimensions

243
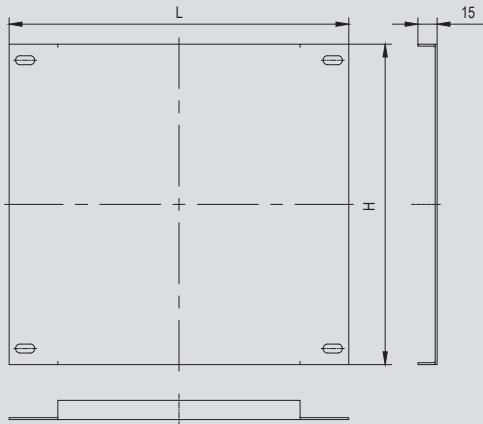
mounting panel

Name	H, mm	L, mm
Mounting panel 250×265 SMART	250	265
Mounting panel 500×265 SMART	500	265
Mounting panel 250×365 SMART	250	365
Mounting panel 500×365 SMART	500	365
Mounting panel 250×530 SMART	250	530
Mounting panel 500×530 SMART	500	530
Mounting panel 250×730 SMART	250	730
Mounting panel 500×730 SMART	500	730

LMA panel
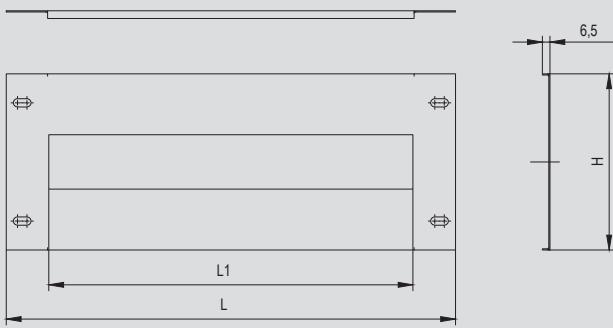
Name	H, mm	L, mm	L1, mm
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H = 150)	149	380	308
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H = 150)	149	530	470
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H = 150)	149	730	668
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H = 200)	199	380	308
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H = 200)	199	530	470
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H = 200)	199	730	668
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.45.xx 36 TITAN (H = 300)	299	380	308
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.60.xx 36 TITAN (H = 300)	299	530	470
LMA panel for metal assembling enclosure for incoming and distribution switchboard-x xx.80.xx 36 TITAN (H = 300)	299	730	668

LG panel
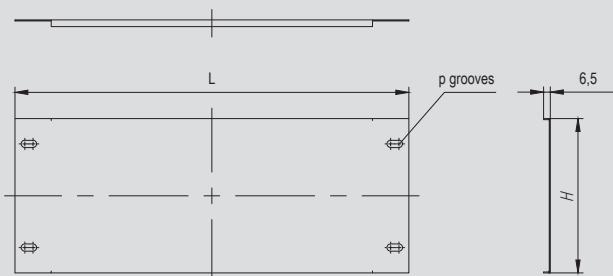
Name	H, mm	L, mm	n, pcs.
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45 xx 36 TITAN (H=50)	380	10	2
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.il. xx 36 TITAN (H=100)	380	100	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.il. xx 36 TITAN (H=150)	380	110	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.il. xx 36 TITAN (H=200)	380	200	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.il. xx 36 TITAN (H=300)	380	300	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.il. xx 36 TITAN (H=400)	380	400	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.45 xx 36 TITAN (H=500)	380	500	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-xxx.il. xx 36 TITAN (H=600)	380	600	6
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=50)	530	50	2
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=100)	530	100	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=150)	130	150	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=200)	130	200	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=300)	130	300	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=400)	130	400	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=500)	130	500	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.60 xx 36 TITAN (H=600)	130	600	6
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=50)	730	50	2
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=100)	730	100	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=150)	730	150	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=200)	730	200	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=300)	730	300	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=400)	730	400	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=500)	730	500	4
LG Panel to metal assembling enclosure for incoming and distribution switchboard-x xx.80 xx 36 TITAN (H=600)	730	600	6

Dimensions
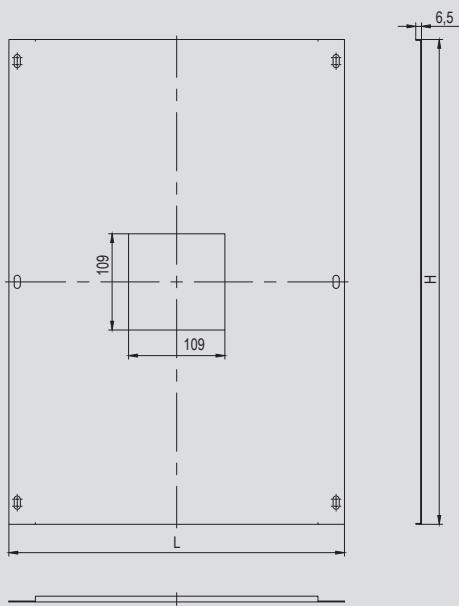
Panel VA 88-35

Name	L, mm
VA 88-35 panel for metal assembling enclosure for incoming and distribution switchboard-x xx. 45. xx 36 TITAN (H = 550)	380
VA 88-35 panel for metal assembling enclosure for incoming and distribution switchboard-x xx. 60. xx 36 TITAN (H = 550)	530
VA 88-35 panel for metal assembling enclosure for incoming and distribution switchboard-x xx. 80. xx 36 TITAN (H = 550)	730

Fuse pocket
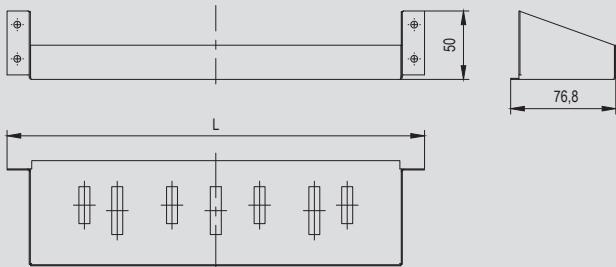
Name	L, mm
Fuse pocket IP31	269
Fuse pocket IP31	419
Fuse pocket IP31	619
Fuse pocket IP54	269
Fuse pocket IP54	419
Fuse pocket IP54	619

SMART metal assembling enclosure for main distribution switchboard

View without a door

Left view

H

L

B

Bottom view

B1

L1

Name	Size, mm				
	H	L	L1	B	B1
Metal assembling enclosure for main distribution switchboard 1800×400×600 IP31 NF3 SMART	1800	400	360	620	533
Metal assembling enclosure for main distribution switchboard 1800×400×800 IP31 NF3 SMART	1800	400	360	820	733
Metal assembling enclosure for main distribution switchboard 1800×600×600 IP31 NF3 SMART	1800	600	560	620	533
Metal assembling enclosure for main distribution switchboard 1800×600×800 IP31 NF3 SMART	1800	600	560	820	733
Metal assembling enclosure for main distribution switchboard 1800×800×600 IP31 NF3 SMART	1800	800	760	620	533
Metal assembling enclosure for main distribution switchboard 1800×800×800 IP31 NF3 SMART	1800	800	760	820	733
Metal assembling enclosure for main distribution switchboard 2000×400×600 IP31 NF3 SMART	2000	400	360	620	533
Metal assembling enclosure for main distribution switchboard 2000×400×800 IP31 NF3 SMART	2000	400	360	820	733
Metal assembling enclosure for main distribution switchboard 2000×600×600 IP31 NF3 SMART	2000	600	560	620	533
Metal assembling enclosure for main distribution switchboard 2000×600×800 IP31 NF3 SMART	2000	600	560	820	733
Metal assembling enclosure for main distribution switchboard 2000×800×600 IP31 NF3 SMART	2000	800	760	620	533
Metal assembling enclosure for main distribution switchboard 2000×800×800 IP31 NF3 SMART	2000	800	760	820	733
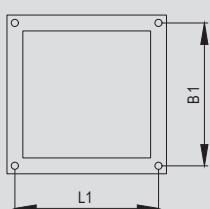
Accessories for SMART metal assembling enclosure for main distribution switchboard

Base for metal assembling enclosure for main distribution switchboard

L

B

L1

70

B1
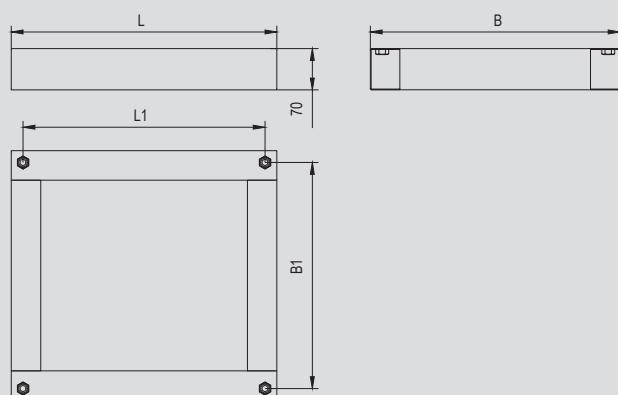
Name	Size, mm			
	L	L1	B	B1
Base of metal assembling enclosure for main distribution switchboard xx.40.60 IP31 SMART	400	360	573	533
Base of metal assembling enclosure for main distribution switchboard xx.40.80 IP31 SMART	400	360	773	733
Base of metal assembling enclosure for main distribution switchboard xx.60.60 IP31 SMART IEK	600	560	573	533
Base of metal assembling enclosure for main distribution switchboard xx.60.80 IP31 SMART	600	560	773	733
Base of metal assembling enclosure for main distribution switchboard xx.80.60 IP31 SMART	800	560	573	533
Base of metal assembling enclosure for main distribution switchboard xx.80.80 IP31 SMART	800	560	773	733

Traverse for metal assembling enclosure for main distribution switchboard

L

12

25

35
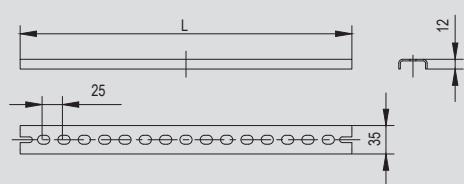
Name	L, mm
Traverse for metal assembling enclosure for main distribution switchboard XXXX×XXX×600 SMART	558
Traverse for metal assembling enclosure for main distribution switchboard XXXX×XXX×800 SMART	758

Dimensions

![IEK logo]

Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard
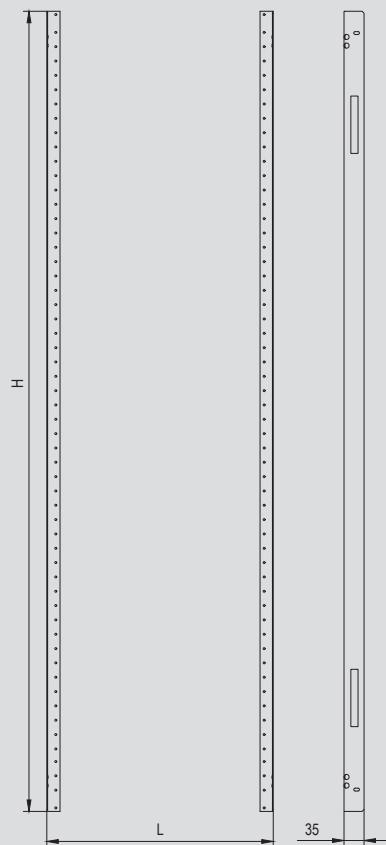
Name	H, mm	L, mm
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 1800×600×XXX SMART	1400	537
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 1800×800×XXX SMART	1400	737
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 2000×600×XXX SMART	1600	537
Frame for LG/LMA panels for metal assembling enclosure for main distribution switchboard 2000×800×XXX SMART	1600	737

Transverse profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard
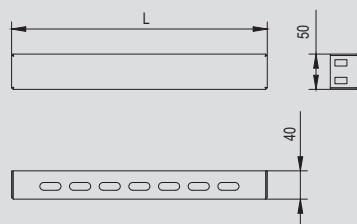
Name	L, mm
Cross profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard XXXX.400.XXX	362
Cross profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard XXXX.600.XXX IEK	562
Cross profile for installation of the air circuit-breaker metal assembling enclosure for main distribution switchboard XXXX.800.XXX IEK	762

Large-size dismountable metal enclosure
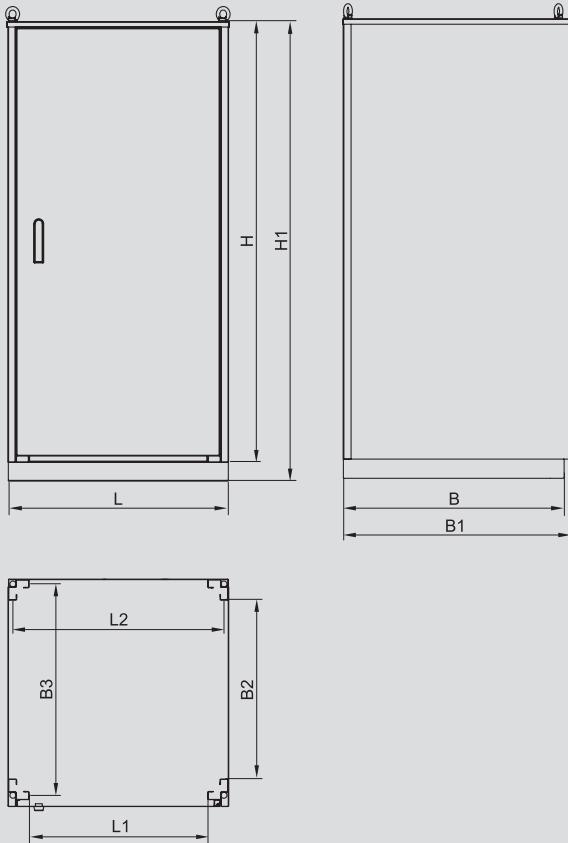
Type	Size, mm								
	H	H1	L	L1	L2	B	B1	B2	B3
Large-size dismountable metal enclosure 16.6.4	1600	1670	600	453	570	403	428	253	370
Large-size dismountable metal enclosure 16.6.6						603	628	453	570
Large-size dismountable metal enclosure 16.6.8						803	828	653	770
Large-size dismountable metal enclosure 16.8.4	1600	1670	800	653	770	403	428	253	370
Large-size dismountable metal enclosure 16.8.6						603	628	453	570
Large-size dismountable metal enclosure 16.8.8						803	828	653	770
Large-size dismountable metal enclosure 18.6.4	1800	1870	600	453	570	403	428	253	370
Large-size dismountable metal enclosure 18.6.6						603	628	453	570
Large-size dismountable metal enclosure 18.6.8						803	828	653	770
Large-size dismountable metal enclosure 18.8.4	1800	1870	800	653	770	403	428	253	370
Large-size dismountable metal enclosure 18.8.6						603	628	453	570
Large-size dismountable metal enclosure 18.8.8						803	828	653	770
Large-size dismountable metal enclosure 20.6.4	2000	2070	600	453	570	403	428	253	370
Large-size dismountable metal enclosure 20.6.6						603	628	453	570
Large-size dismountable metal enclosure 20.6.8						803	828	653	770
Large-size dismountable metal enclosure 20.8.4	2000	2070	800	653	770	403	428	253	370
Large-size dismountable metal enclosure 20.8.6						603	628	453	570
Large-size dismountable metal enclosure 20.8.8						803	828	653	770

Metal enclosure for distribution points 1

Item No.	Name
1	Board enclosure
2	VA panel
3	Blanking plate
4	DIN rail
5	Door
6	Lock
7	Cover

Dimensions

Metal enclosure for distribution points 2
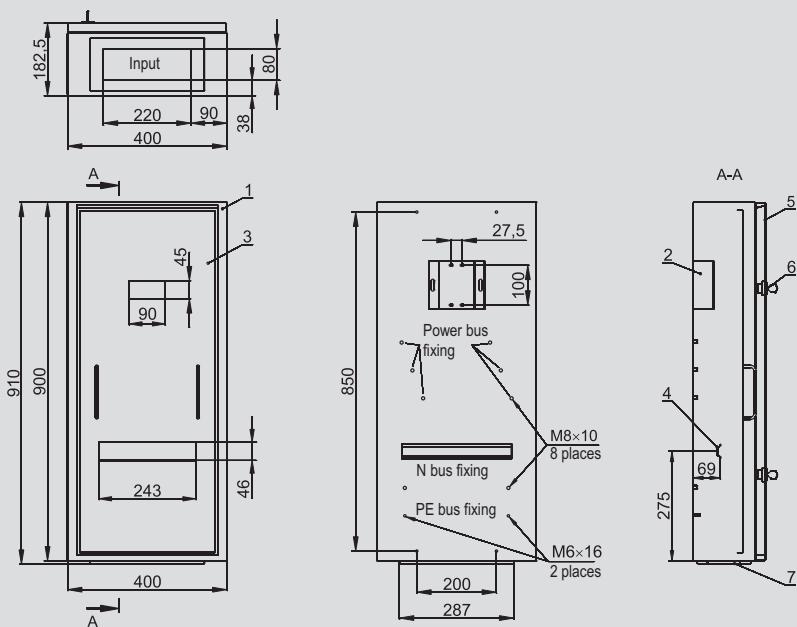
Item No.	Name
1	Board enclosure
2	VA panel
3	Blanking plate
4	DIN rail
5	Door
6	Lock
7	Cover

Metal enclosure for distribution points 3
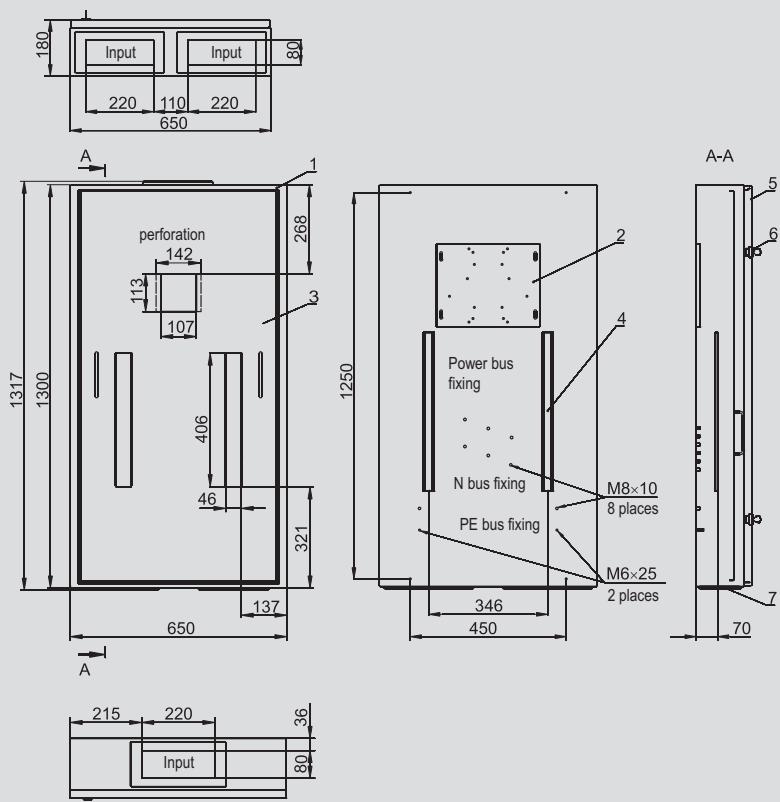
Item No.	Name
1	Board enclosure
2	VA panel
3	Blanking plate
4	DIN rail
5	Door
6	Lock
7	Cover

249

FORMAT enclosures for LVCD

Front view
(cabinet with a single door)

Front view
(cabinet with double doors)
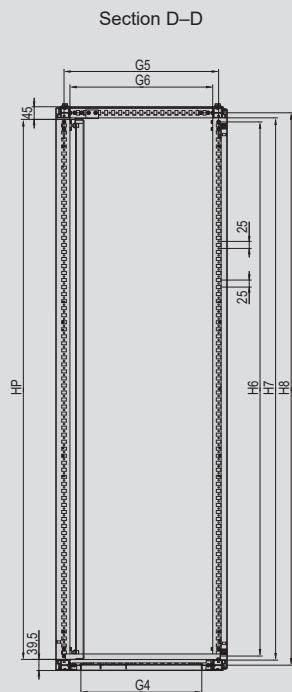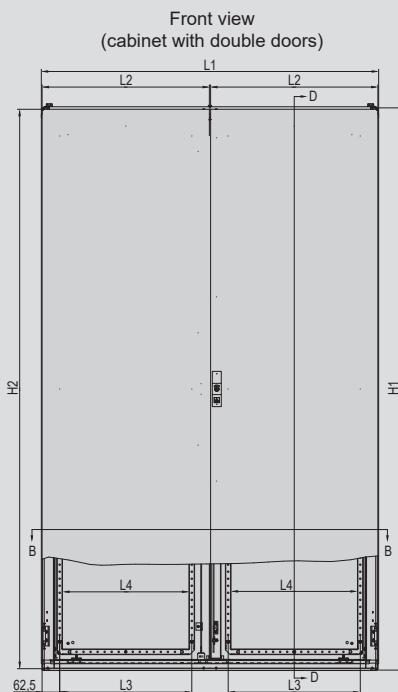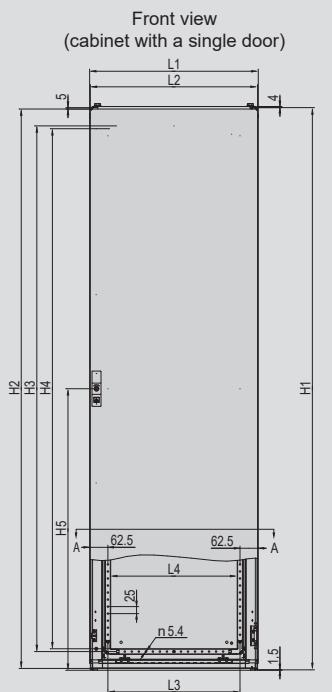
Section D–D
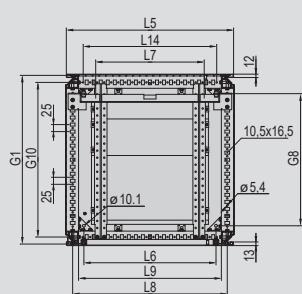
Section A–A

Section B–B
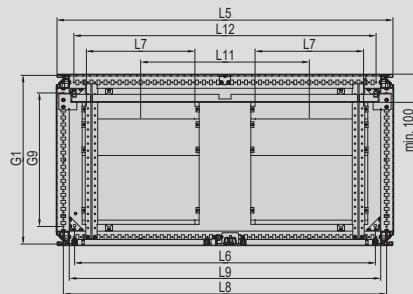
Top view
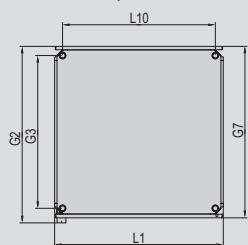
Top view
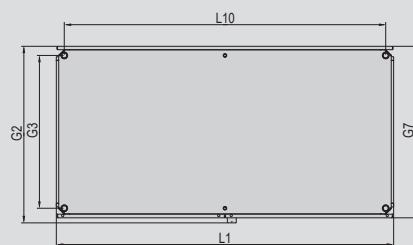
Enclosure dimensions, HxWxD, mm	HEIGHT							
	H1	H2	H3	H4	H5	H6	H7	H8
2000x600x600	2000	1990	1870	1850	1001.5	1900	1929	1965
2000x600x800	2000	1990	1870	1850	1001.5	1900	1929	1965
2000x800x600	2000	1990	1870	1850	1001.5	1900	1929	1965
2000x800x800	2000	1990	1870	1850	1001.5	1900	1929	1965
2000x1000x600	2000	1990	1870	1850	1001.5	1900	1929	1965
2000x1000x800	2000	1990	1870	1850	1001.5	1900	1929	1965

Dimensions

Prefabricated base
(holes for anchoring)

LC2

GC1

GC2

ø16,2

LC1

Welded base
(holes for anchoring)

LC3

80

80

GC1

GC2

ø13

LC1

Mounting plate

LP

12

21,5

30

HP

ø8,5

60

25

60

76,5   76,5
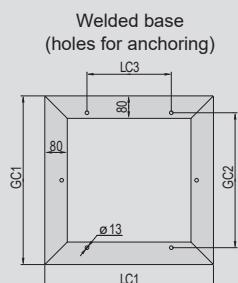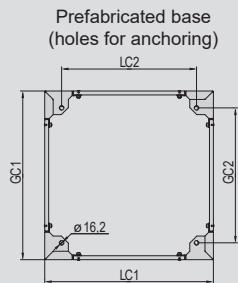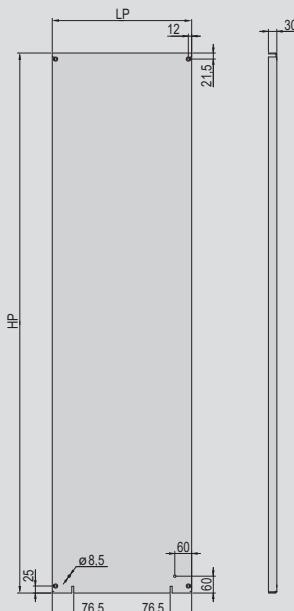
NOTE.
After installing the side panels, the cabinet
width increases by 5 mm on each side.
Between linearly connected cabinets, it is
necessary to provide a gap of 3 mm for the seal.

WIDTH												DEPTH										MOUNTING PANEL		BASE				
L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	HP	LP	LC1	LC2	LC3	GC1	GC2
600	595	470	450	595	470	386	550	508	543.5	–	475	600	628	543.5	430	550	508	610	470	475	550	1921	496	600	480	300	600	480
600	595	470	450	595	470	386	550	508	543.5	–	475	800	828	743.5	630	750	708	810	670	675	750	1921	496	600	480	300	800	680
800	795	670	650	795	670	586	750	708	743.5	–	675	600	628	543.5	430	550	508	610	470	475	550	1921	696	800	680	500	600	480
800	795	670	650	795	670	586	750	708	743.5	–	675	800	828	743.5	630	750	708	810	670	675	750	1921	696	800	680	500	800	680
1000	495	370	350	995	870	356	950	908	943.5	430	875	600	628	543.5	430	550	508	610	470	475	550	1921	896	1000	880	700	600	480
1000	495	370	350	995	870	356	950	908	943.5	430	875	800	828	743.5	630	750	708	810	670	675	750	1921	896	1000	880	700	800	680

Dimensions

Distribution cabinet accessories

Glands

Designed for entering wires and cables into switchboard equipment
in order to protect conductors from mechanical damage and protect the assembly itself from
the penetration of dust and moisture

The gland consists of an
enclosure (1), a seal (4),
a packing nut (3), a gasket (2)
and a fixing nut (5). The gasket
and seal are made of
neoprene.

The enclosure, packing nut,
and retaining nut are nylon.

The gland is installed using
a pipe (gas) spanner.

The operating temperature
range of PG glands is from
-15 to +80°C, of PGL and MG
– from -40 to +80°C.

Assortment
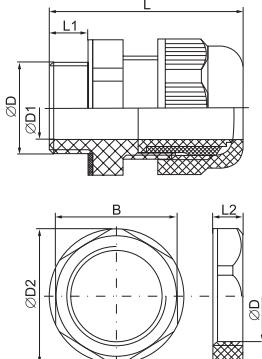
PGL, PG glands

Degree of protection IP54
Color – gray RAL 7035.

Dimensions		Name	Dimensions, mm							Cable diameter, mm	Article
			B	D	D1	D2	L	L1	L2		
		PGL 11	24	18	8	26	34	7	5	6—7	YSA30-08-11-54-K41
		PGL 13.5	27	20	10	29	35	8	6	9—10	YSA30-10-13-54-K41
		PGL 16	30	22	12	33	40	10	6	10—11	YSA30-12-16-54-K41
		PGL 21	35.6	28	16	38.5	45	10	7	14—15	YSA30-16-21-54-K41
		PGL 29	46	37	25	50	50	9	7	20—24	YSA30-25-29-54-K41
		PGL 36	60	46	32	66	56	12	8	28—31	YSA30-32-36-54-K41
		PGL 42	65	54	40	73	63	9	8	35—39	YSA30-40-42-54-K41
		PGL 48	70	59	44	77	63	12	8	39—43	YSA30-44-48-54-K41
		PG 7	19	12	7	21	31	8	5	5—6	YSA20-06-07-54-K41
		PG 9	22	15	10	24	33	8	5	6—7	YSA20-08-09-54-K41
		PG 11	24	18	11	26	36	7	5	7—9	YSA20-10-11-54-K41
		PG 13.5	27	20	12	29	38	7.5	6.5	7—11	YSA20-12-13-54-K41
		PG 16	30	22	13	33	42	9	6	9—13	YSA20-14-16-54-K41
		PG 21	35.5	28	19	38.5	51	11	7	15—18	YSA20-18-21-54-K41
		PG 29	46	36	25	50	52	10	6.5	18—24	YSA20-25-29-54-K41
		PG 36	60	47	32	66	65	13	7.5	24—32	YSA20-32-36-54-K41
		PG 42	64.5	54	38	72	66	12	8	30—40	YSA20-40-42-54-K41
		PG 48	70	59	45	78	66	13	8	36—44	YSA20-44-48-54-K41

Distribution cabinet accessories
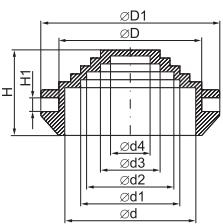
MG glands

Degree of protection – IP68.
Color – black.

Dimensions		Name	Dimensions, mm							Cable diameter	Article
			B	D	D1	D2	L	L1	L2		
		MG 12	17.5	12	8	19	37	6	5	4—7	YSA10-08-12-68-K02
		MG 16	22	15	10	24	46	13	7	6—10	YSA10-10-16-68-K02
		MG 20	26.6	20	14	29	52	13	8	10—14	YSA10-14-20-68-K02
		MG 25	32.5	25	18	35.5	57	14	8	13—18	YSA10-18-25-68-K02
		MG 32	41	32	25	45	62	14	8	16—24	YSA10-25-32-68-K02
		MG 40	49	40	32	53.5	70	19	10	20—29	YSA10-30-40-68-K02
		MG 50	61	50	42	66	80	21	10	33—41	YSA10-39-50-68-K02
		MG 63	74	63	52	81.5	89	23	11	44—54	YSA10-52-63-68-K02

Cable glands

Degree of protection IP54

Dimensions		Name	Dimensions, mm									Article
			H	H1	D	D1	d	d1	d2	d3	d4	
		Gland d = 20 mm (Enclosure hole D 22 mm) white	14	2	22	27	20	14	11	4	–	YSA40-20-22-68-K01
		Gland d = 20 mm (Enclosure hole D 22 mm) white	14	2	22	27	20	14	11	4	–	YSA40-20-22-68-K41
		Gland d = 25 mm (Enclosure hole D 27 mm) white	16	3.7	27	34	25	21	15	11	4	YSA40-25-27-68-K01
		Gland d = 25 mm (Enclosure hole D 27 mm) white	16	3.7	27	34	25	21	15	11	4	YSA40-25-27-68-K41
		Gland d = 25 mm (Enclosure hole D 32 mm) white	15	1.5	32	36	25	20	15	11	5	YSA40-25-32-68-K01
		Gland d = 25 mm (Enclosure hole D 32 mm) white	15	1.5	32	36	25	20	15	11	5	YSA40-25-32-68-K41
		Gland d = 32 mm (Enclosure hole D 37 mm) white	22	3.5	37	45	32	26	21	17	10	YSA40-32-37-68-K01-050
		Gland d = 32 mm (Enclosure hole D 37 mm) white	22	3.5	37	45	32	26	21	17	10	YSA40-32-37-68-K41-050
		Gland d = 40 mm (Enclosure hole D 49 mm) white	21	2.4	49	54	40	31	26	18	11	YSA40-40-49-68-K01
		Gland d = 40 mm (Enclosure hole D 49 mm) white	21	2.4	49	54	40	31	26	18	11	YSA40-40-49-68-K41

Terminals ZNI

They are used for safe and compact connection of phase, neutral and protective (ground) conductors of various cross-sections.
Mounted on a DIN rail. Set with a marker for drawing numbers (except for ZNI-2.5 and ZNI-95).
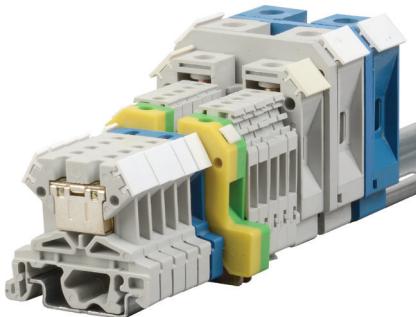
Side plugs for ZNI terminals are also supplied. The terminal clamps can be closed with plastic plugs of the appropriate size and color.
They are made of colored non-combustible polyamide – yellow-green (ground), blue (zero), gray (phase) color.

Assortment of ZNI terminals

Dimensions	ZNI type	Maximum cross-section of connected wires, mm²	Nominal current, A	Dimensions, mm				Q-ty in a package	Article
				L	H	h	W		
	ZNI-2.5 gray *	2.5	24	47	42.6	41.7	8	50	YZN10-002-K03
	ZNI-2.5 blue *	2.5	24	47	42.6	41.7	8	50	YZN10-002-K07
	ZNI-4 gray	4	35	41.5	45.5	33	6.3	60	YZN10-004-K03
	ZNI-4 blue	4	35	41.5	45.5	33	6.3	60	YZN10-004-K07
	ZNI-6 gray	6	50	42	46	33.5	8	50	YZN10-006-K03
	ZNI-6 blue	6	50	42	46	33.5	8	50	YZN10-006-K07
	ZNI-10 gray	10	70	46	45.5	42	10.5	40	YZN10-010-K03
	ZNI-10 blue	10	70	46	45.5	42	10.5	40	YZN10-010-K07
	ZNI-16 gray	16	85	48	58	51	12	30	YZN10-016-K03
	ZNI-16 blue	16	85	48	58	51	12	30	YZN10-016-K07
	ZNI-35 gray	35	125	59	51.5	51	15	30	YZN10-035-K03
	ZNI-35 blue	35	125	59	51.5	51	15	30	YZN10-035-K07
	ZNI-70 gray	70	250	91	61.5	61.5	22.2	8	YZN10-070-K03
	ZNI-70 blue	70	250	91	61.5	61.5	22.2	8	YZN10-070-K07
	ZNI-95 gray	95	330	80	96	88.2	26.5	5	YZN10-095-K03
	ZNI-95 blue	95	330	80	96	88.2	26.5	5	YZN10-095-K07
	ZNI-4 PEN	4	35	43	58	40	7	20	YZN20-004-K52
	ZNI-6 PEN	6	50	45	58	41	9	20	YZN20-006-K52
	ZNI-10 PEN	10	70	46	58	41	10	20	YZN20-010-K52
	ZNI-16 PEN	16	85	48	58	51	12	20	YZN20-016-K52
	ZNI-35 PEN	35	125	58	60	60	17	10	YZN20-035-K52
	ZNI-70 PEN	70	250	77	71	71	20	5	YZN20-070-K52

Accessories for ZNI terminals – Plugs

	ZNI-4 gray (suitable for ZNI-6)	20	YZN10D-ZGL-006-K03
	ZNI-4 blue (suitable for ZNI-6)	20	YZN10D-ZGL-006-K07
	ZNI-10 gray	20	YZN10D-ZGL-010-K03
	ZNI-10 blue	20	YZN10D-ZGL-010-K07
	ZNI-16 gray	20	YZN10D-ZGL-016-K03
	ZNI-16 blue	20	YZN10D-ZGL-016-K07
	ZNI-35 gray	20	YZN10D-ZGL-035-K03
	ZNI-35 blue	20	YZN10D-ZGL-035-K07

* Supplied with end cap.

Spring terminals KPI

Designed for permanent, safe and compact connection of conductors of various cross-sections in distribution systems inside electrical cabinets. They are used for safe and compact connection of phase, neutral and protective (ground) conductors of various cross-sections. Mounted on a DIN rail.

The spring-loaded type of conductor clamp provides fast assembly speed and secure hold under vibration loads. Double functional row of jumpers facilitates the task of potential distribution.

A wide range of accessories for terminal installation: side plugs for terminals in matching colors, labeling plates with and without symbols, end straps, row markers for terminal assembly.
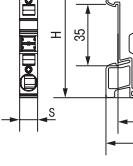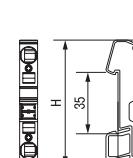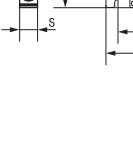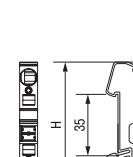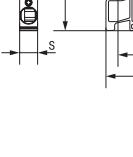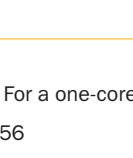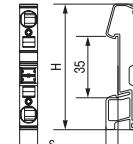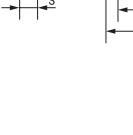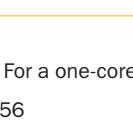
Made of colored non-combustible polyamide – gray (phase), blue (zero), yellow-green (earth) color.

Flammability class according to UL94 – V0.

Rated impulse withstand voltage Uimp, V – 6000.

Rated insulation voltage, V – 800.

Assortment of spring terminals KPI

Name	Nominal conductor cross-section, mm²		Nominal current, A	Maximum current, A*	Rated voltage, V	Dimensions, mm			Number of outputs	Number of levels	Number in a package	Article
	Multi-core	One-core				H	L	S				
KPI 2v-1.5 gray	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K03
KPI 2v-1.5 blue	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K07
KPI 2v-1.5 yellow	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K05
KPI 2v-1.5 green	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K06
KPI 2v-1.5 red	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K04
KPI 2v-1.5 orange	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K09
KPI 2v-1.5 black	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN11-001-K02
KPI 2v-1.5 PE (yellow-green)	0.2-1.5	0.2-2.5	17.5	24	500	49.3	35.9	4.2	2	1	60	YZN21-001-K52
KPI 2v-2.5 gray	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K03
KPI 2v-2.5 blue	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K07
KPI 2v-2.5 yellow	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K05
KPI 2v-2.5 green	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K06
KPI 2v-2.5 red	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K04
KPI 2v-2.5 orange	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K09
KPI 2v-2.5 black	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN11-002-K02
KPI 2v-2.5 PE (yellow-green)	0.2-2.5	0.2-4	24	31	800	49.3	35.9	5.2	2	1	50	YZN21-002-K52
KPI 2v-4 gray	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K03
KPI 2v-4 blue	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K07
KPI 2v-4 yellow	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K05
KPI 2v-4 green	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K06
KPI 2v-4 red	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K04
KPI 2v-4 orange	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K09
KPI 2v-4 black	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN11-004-K02
KPI 2v-4 PE (yellow-green)	0.2-4	0.2-6	31	41	800	56.3	35.6	6.2	2	1	40	YZN21-004-K52
KPI 2v-6 gray	0.5-6	0.5-10	41	52	800	69.7	42.4	8.2	2	1	24	YZN11-006-K03
KPI 2v-6 blue	0.5-6	0.5-10	41	52	800	69.7	42.4	8.2	2	1	24	YZN11-006-K07
KPI 2v-6 PE (yellow-green)	0.5-6	0.5-10	41	52	800	69.7	42.4	8.2	2	1	24	YZN21-006-K52
KPI 3v-2.5 gray	0.2-2.5	0.2-4	24	31	800	60.8	35.9	5.2	3	1	45	YZN11-3-002-K03
KPI 3v-2.5 blue	0.2-2.5	0.2-4	24	31	800	60.8	35.9	5.2	3	1	45	YZN11-3-002-K07
KPI 2v-10 gray	4-10	4-16	57	70	800	72	50.3	10.3	2	1	20	YZN11-010-K03
KPI 2v-10 blue	4-10	4-16	57	70	800	72	50.3	10.3	2	1	20	YZN11-010-K07

* For a one-core conductor of maximum cross-section.

Accessories for KPI terminals

	Name	Type of KPI	Color	Article
	End cap	KPI 2v-1.5/2.5	grey	YZN11D-ZGL-002-K03
			blue	YZN11D-ZGL-002-K07
		KPI 2v-4	grey	YZN11D-ZGL-004-K03
			blue	YZN11D-ZGL-004-K07
		KPI 2v-6	grey	YZN11D-ZGL-006-K03
		KPI 2v-10	blue	YZN11D-ZGL-006-K07
			grey	YZN11D-ZGL-010-K03
			blue	YZN11D-ZGL-010-K07
		KPI 3v-1.5/2.5	grey	YZN11D-3-ZGL-002-K03
			blue	YZN11D-3-ZGL-002-K07
	Markers for KPI without symbols	KPI 2v-1.5	white	YZN11M-001-K00
		KPI 2v-2.5	white	YZN11M-002-K00
		KPI 2v-4	white	YZN11M-004-K00
		KPI 2v-6	white	YZN11M-006-K00
		KPI 2v-10	white	YZN11M-010-K00
	Markers for KP with numbering Nos 1-10	KPI 2v-1.5	white	YZN11M-001-K00-10
		KPI 2v-2.5	white	YZN11M-002-K00-10
		KPI 2v-4	white	YZN11M-004-K00-10
		KPI 2v-6	white	YZN11M-006-K00-10
		KPI 2v-10	white	YZN11M-010-K00-10
	Markers for KPI with symbols "L1, L2, L3, N, PE"	KPI 2v-1.5	white	YZN11M-001-K00-A
		KPI 2v-2.5	white	YZN11M-002-K00-A
		KPI 2v-4	white	YZN11M-004-K00-A
		KPI 2v-6	white	YZN11M-006-K00-A
		KPI 2v-10	white	YZN11M-010-K00-A

	Name	Type of KPI	Number of PINs	Article
	Jumper for KPI	KPI 2v-1.5	2	YZN11FBS-001-2P
			3	YZN11FBS-001-3P
			10	YZN11FBS-001-10P
		KPI 2v-2.5	2	YZN11FBS-002-2P
			3	YZN11FBS-002-3P
			10	YZN11FBS-002-10P
		KPI 2v-4	2	YZN11FBS-004-2P
			3	YZN11FBS-004-3P
			10	YZN11FBS-004-10P
		KPI 2v-6	10	YZN11FBS-006-10P
	End stopper (limiter with marking) on the DIN rail		–	YZN11DF-003-K03
	Marking holder for KPI on the end stopper		–	YZN11DFMH-003-K03

Input power terminal KVS

Input power terminals are designed to connect large conductors from 6 to 240 mm2 when organizing the input and distribution of conductors inside electrical cabinets and switchboards. Used to connect copper and aluminum conductors when installing industrial equipment.
Connection by means of clamps makes installation as simple and fast as possible. Robust enclosure with increased fire resistance, made of polyamide PA 6.6 according to UL94 V0 standard (self-extinguishing).

A special paste on the clamping screw and busbar of the terminal increases the contact surface and reduces power loss and heat at the contact point, increasing the life of the terminal.
The connecting piece is tin plated aluminum.
Operating temperature: −40..+85 °C

Assortment of input power terminals KVS

	Assortment	Color	Wire section, mm²	Rated current, A	Nominal short-time withstand current, kA	Nominal impulse withstand voltage Uimp, kV	Tightening torque, Nm	Number of rows	Article
	Input power terminal KVS 6-50 mm²	grey	CU 2.5-50 Al 6-50	CU 160 Al 145	6.0	8.0	4 (2.5-4mm²) 12 (6-50mm²)	1	YZN12-050-K03
								2	YZN13-050-K03
								3	YZN14-050-K03
		blue						1	YZN12-050-K07
								2	YZN13-050-K07
		yellow-green						1	YZN22-050-K52
								2	YZN23-050-K52
	Input power terminal KVS 16–95 mm²	grey	16-95	CU 245 Al 220	11.4	8.0	20	1	YZN12-095-K03
								2	YZN13-095-K03
		blue						1	YZN12-095-K07
								2	YZN13-095-K07
		yellow-green						1	YZN22-095-K52
								2	YZN23-095-K52
	Input power terminal KVS 35–150 mm²	grey	35-150	CU 320 Al 290	18.0	8.0	14 (35–95mm²) 24 (120-150mm²)		YZN12-150-K03
		blue							YZN12-150-K07
		yellow-green							YZN22-150-K52
	Input power terminal KVS 35-240 mm²	grey	35-240	CU 425 Al 380	28.8	8.0	12 (35-70mm²) 40 (95–240mm²)		YZN12-240-K03
		blue							YZN12-240-K07
		yellow-green							YZN22-240-K52

Distribution cabinet accessories

Flat bus insulators IShP

Designed to hold power busbars in busbar systems inside electrical distribution cabinets and switchboards with rated currents up to 4000 A.

They are used for the orderly organization of bus connections and the installation of various branches from the central buses when assembling low-voltage switchboards for various purposes.

Advantages of IEK® flat busbar insulators:

• Made of glass fiber reinforced SMC material with high flexural and tensile strength. Resistant to dynamic loads in the event of short-circuit currents.

• The insulator is available in two- or three-phase design.

• Provides vertical fastening of 5 and 10 mm busbars.

• Simple and reliable design for quick assembly of busbar systems from copper and aluminum busbars.

Assortment

	Name	Number of buses, pcs.	Number in a package, pcs.	Article
	Flat bus insulator IShP 2P for busbars 5 and 10 mm 180 mm	2	2	YIS40-2-180
	Flat bus insulator IShP 3P for busbars 5 and 10 mm 270 mm	3	2	YIS40-3-270
	Flat bus insulator IShP 3P for busbars 5 and 10 mm 370 mm	3	2	YIS40-3-370
	Flat bus insulator 4P for busbars 5 and 10 mm 303 mm	4	2	YIS40-4-303

Insulators for connecting studs for IShP

Designed for insulating connecting studs when installing flat insulators in a busbar system.

Made in the form of tubes made of fiberglass fabric coated with epoxy resin.

The wide range of sizes allows for use with power busbars of various widths.

Assortment

	Name	Outer/inner diameter, mm	Length, mm	Article
	Coupling stud insulator 1000 mm for IShP	19.5/13	1000	YIS40-1000
	Coupling stud insulator 110 mm for IShP (set 2 pcs)		110	YIS40-110
	Coupling stud insulator 150 mm for IShP (set 2 pcs)		150	YIS40-150
	Coupling stud insulator 20 mm for IShP (set 2 pcs)		20	YIS40-20
	Coupling stud insulator 30 mm for IShP (set 2 pcs)		30	YIS40-30
	Coupling stud insulator 40 mm for IShP (set 2 pcs)		40	YIS40-40
	Coupling stud insulator 50 mm for IShP (set 2 pcs)		50	YIS40-50
	Coupling stud insulator 60 mm for IShP (set 2 pcs)		60	YIS40-60
	Coupling stud insulator 70 mm for IShP (set 2 pcs)		70	YIS40-70
	Coupling stud insulator 90 mm for IShP (set 2 pcs)		90	YIS40-90

Electric buses

Electric copper and aluminum buses

Electrical copper buses M1T are made of high-quality copper grades.
Electrical aluminum buses AD 31T are made of high-quality aluminum grades.
They are used for the manufacture of bus routes, bus ducts of various configurations. They are used in low-voltage switchboards, power supply systems for residential, public and industrial buildings.
Supplied in strips 4 meters long.

Assortment of electrical copper busbars M1T and AD 31T

Name	Section, mm²	Maximum amperage, A	Weight of 1 linear m, kg	Article
Bus M1T 10×100×4000 mm	1000	2310	8.95	YBC10-10-100
Bus M1T 10×120×4000 mm	1200	2650	10.75	YBC10-10-120
Bus M1T 10×30×4000 mm	300	798	2.70	YBC10-10-030
Bus M1T 10×50×4000 mm	500	1263	4.48	YBC10-10-050
Bus M1T 10×60×4000 mm	600	1475	5.38	YBC10-10-060
Bus M1T 10×80×4000 mm	800	1900	7.18	YBC10-10-080
Bus M1T 3×15×4000 mm	45	210	0.43	YBC10-03-015
Bus M1T 3×16×4000 mm	48	228	0.45	YBC10-03-016
Bus M1T 3×20×4000 mm	60	275	0.55	YBC10-03-020
Bus M1T 3×25×4000 mm	75	340	0.68	YBC10-03-025
Bus M1T 3×30×4000 mm	90	398	0.83	YBC10-03-030
Bus M1T 3×40×4000 mm	120	525	1.08	YBC10-03-040
Bus M1T 4×20×4000 mm	80	320	0.73	YBC10-04-020
Bus M1T 4×25×4000 mm	100	393	0.90	YBC10-04-025
Bus M1T 4×30×4000 mm	120	475	1.08	YBC10-04-030
Bus M1T 4×40×4000 mm	160	625	1.45	YBC10-04-040
Bus M1T 5×20×4000 mm	100	393	0.90	YBC10-05-020
Bus M1T 5×25×4000 mm	125	467	1.13	YBC10-05-025
Bus M1T 5×30×4000 mm	150	530	1.35	YBC10-05-030
Bus M1T 5×40×4000 mm	200	700	1.80	YBC10-05-040
Bus M1T 5×50×4000 mm	250	860	2.25	YBC10-05-050
Bus M1T 6×50×4000 mm	300	955	2.70	YBC10-06-050
Bus M1T 6×60×4000 mm	360	1125	3.23	YBC10-06-060
Bus M1T 8×80×4000 mm	640	1690	5.73	YBC10-08-080
Bus AD 31T 10×100×4000 mm	1000	1820	2,710	YBA10-10-100
Bus AD 31T 10×120×4000 mm	1200	2070	3,250	YBA10-10-120
Bus AD 31T 3×15×4000 mm	45	165	0,125	YBA10-03-015
Bus AD 31T 3×20×4000 mm	60	215	0,175	YBA10-03-020
Bus AD 31T 3×25×4000 mm	75	265	0,200	YBA10-03-025
Bus AD 31T 3×30×4000 mm	90	318	0,250	YBA10-03-030
Bus AD 31T 4×30×4000 mm	120	365	0,325	YBA10-04-030
Bus AD 31T 4×40×4000 mm	160	480	0,450	YBA10-04-040
Bus AD 31T 5×40×4000 mm	200	540	0,550	YBA10-05-040
Bus AD 31T 5×50×4000 mm	250	665	0,680	YBA10-05-050
Bus AD 31T 5×60×4000 mm	300	800	0,825	YBA10-05-060
Bus AD 31T 6×30×4000 mm	180	540	0,500	YBA10-06-030
Bus AD 31T 6×40×4000 mm	240	640	0,650	YBA10-06-040
Bus AD 31T 6×50×4000 mm	300	740	0,810	YBA10-06-050
Bus AD 31T 6×60×4000 mm	360	870	0,960	YBA10-06-060
Bus AD 31T 6×80×4000 mm	480	1150	1,300	YBA10-06-080
Bus AD 31T 8×100×4000 mm	800	1625	2,170	YBA10-08-100
Bus AD 31T 8×60×4000 mm	480	1025	1,300	YBA10-08-060
Bus AD 31T 8×80×4000 mm	640	1320	1,730	YBA10-08-080

Distribution cabinet accessories

Electrotechnical copper flexible busbars ShMG

Manufactured from high-quality copper M1. Used for the manufacture of bus routes, bus wires of various configurations.
Used in low-voltage switchboards, power supply systems for residential, public and industrial buildings.
Supplied in 2 meter long strips, PVC insulated.

Assortment of electric copper flexible buses ShMG

Name	Section, mm²	Number of plates, pcs.	Dimensions of plates A×B, mm*	Insulation thickness d, mm	Maximum current I, A	Weight, kg
ShMG 2×15.5×0.8	24.8	2	15.5×0.8	2±0.2	125	0.56
ShMG 2×20×1	40	2	20×1		250	0.86
ShMG 2×24×1	48	2	24×1		380	1.02
ShMG 2×32×1	64	2	32×1		406	1.35
ShMG 2×40×1	80	2	40×1		455	1.68
ShMG 3×9×0,8	21.6	3	9×0,8		134	0.47
ShMG 3×20×1	60	3	20×1		260	1.22
ShMG 3×24×1	72	3	24×1		413	1.45
ShMG 3×32×1	96	3	32×1		480	1.92
ShMG 3×40×1	120	3	40×1		522	2.4
ShMG 3×50×1	150	3	50×1		592	2.98
ShMG 3×63×1	189	3	63×1		675	3.75
ShMG 3×80×1	240	3	80×1		827	4.75
ShMG 4×15,5×0,8	49.6	4	15.5×0.8		320	1.01
ShMG 4×20×1	80	4	20×1		402	1.58
ShMG 4×24×1	96	4	24×1		465	1.89
ShMG 4×32×1	128	4	32×1		548	2.5
ShMG 4×40×1	160	4	40×1		615	3.11
ShMG 4×50×1	200	4	50×1		727	3.88
ShMG 4×63×1	252	4	63×1		855	4.88
ShMG 4×80×1	320	4	80×1		1015	6.18
ShMG 4×100×1	400	4	100×1		1225	7.71
ShMG 5×20×1	100	5	20×1		420	1.94
ShMG 5×24×1	120	5	24×1		500	2.32
ShMG 5×32×1	160	5	32×1		630	3.08
ShMG 5×40×1	200	5	40×1		760	3.83
ShMG 5×50×1	250	5	50×1		930	4.77
ShMG 5×63×1	315	5	63×1		1030	6
ShMG 5×80×1	400	5	80×1		1175	7.61
ShMG 5×100×1	500	5	100×1		1385	9.5
ShMG 6×9×0,8	43.2	6	9×0,8		245	0.87
ShMG 6×15,5×0,8	74.4	6	15.5×0.8		402	1.46
ShMG 6×20×1	120	6	20×1		462	2,3
ShMG 6×24×1	144	6	24×1		566	2.75
ShMG 6×32×1	192	6	32×1		640	3.65
ShMG 6×40×1	240	6	40×1		860	4.55
ShMG 6×50×1	300	6	50×1		1035	5.67
ShMG 6×63×1	378	6	63×1		1215	7.13
ShMG 6×80×1	480	6	80×1		1375	9.05
ShMG 6×100×1	600	6	100×1		1550	11.28
ShMG 8×24×1	192	8	24×1		678	3.62
ShMG 8×32×1	256	8	32×1		800	4.8
ShMG 8×40×1	320	8	40×1		1040	5.94
ShMG 8×50×1	400	8	50×1		1175	7.46
ShMG 8×63×1	504	8	63×1		1395	9.38
ShMG 8×80×1	640	8	80×1		1600	11.9
ShMG 8×100×1	800	8	100×1		1815	14.85
ShMG 8×120×1	960	8	120×1		2135	17.8
ShMG 9×9×0,8	64.8	9	9×0,8		265	1.27
ShMG 10×15,5×0,8	124	10	15.5×0.8		455	2.36
ShMG 10×20×1	200	10	20×1		645	3.75
ShMG 10×24×1	240	10	24×1		800	4.48
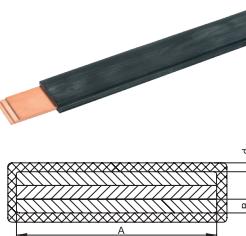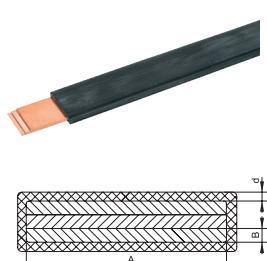
Name	Section, mm²	Number of plates, pcs.	Dimensions of plates A×B, mm*	Insulation thickness d, mm	Maximum amperage I, A	Weight, kg
ShMG 2×15.5×0.8	24.8	2	15.5×0.8	2±0.2	125	0.56
ShMG 2×20×1	40	2	20×1		250	0.86
ShMG 2×24×1	48	2	24×1		380	1.02
ShMG 2×32×1	64	2	32×1		406	1.35
ShMG 2×40×1	80	2	40×1		455	1.68
ShMG 3×9×0,8	21.6	3	9×0,8		134	0.47
ShMG 3×20×1	60	3	20×1		260	1.22
ShMG 3×24×1	72	3	24×1		413	1.45
ShMG 3×32×1	96	3	32×1		480	1.92
ShMG 3×40×1	120	3	40×1		522	2.4

Characteristics and selection of ShMG

The recommended amperage value (margin of safety) for the selection of ShMG buses is indicated in Table 1. Recommended to select buses according to this value
The maximum permissible short-term currents for ShMG buses, depending on the temperature loads, are shown in Table 2.

Table 2

Name	Section, mm²	Permissible amperage*, A	Coef. with parallel connection of several buses		Current, A				
			2 buses	3 buses	ΔT 30°	ΔT 40°	ΔT 50°	ΔT 60°	ΔT 70°
ShMG 2×15.5×0.8	24.8	212	1.72	2.25	165	191	212	234	252
ShMG 2×20×1	40	275	1.72	2.25	214	246	275	300	326
ShMG 2×24×1	48	380	1.72	2.25	295	340	380	416	450
ShMG 2×32×1	64	406	1.72	2.25	315	363	406	445	480
ShMG 2×40×1	80	455	1.72	2.25	352	406	455	500	538
ShMG 3×9×0,8	21.6	134	1.72	2.25	104	120	134	147	158
ShMG 3×20×1	60	360	1.72	2.25	280	323	360	395	428
ShMG 3×24×1	72	413	1.72	2.25	320	370	413	453	490
ShMG 3×32×1	96	480	1.72	2.25	372	430	480	525	570
ShMG 3×40×1	120	522	1.72	2.25	405	466	522	570	617
ShMG 3×50×1	150	592	1.72	2.25	460	530	592	650	700
ShMG 3×63×1	189	675	1.65	2.12	522	603	675	740	798
ShMG 3×80×1	240	827	1.65	2.12	640	740	827	906	980
ShMG 4×15,5×0,8	49.6	320	1.72	2.25	248	286	320	350	380
ShMG 4×20×1	80	402	1.72	2.25	312	360	402	440	476
ShMG 4×24×1	96	465	1.72	2.25	360	416	465	540	550
ShMG 4×32×1	128	548	1.72	2.25	425	490	548	600	648
ShMG 4×40×1	160	615	1.72	2.25	476	550	615	673	727
ShMG 4×50×1	200	727	1.72	2.25	563	650	727	795	860
ShMG 4×63×1	252	855	1.65	2.12	661	763	855	935	1010
ShMG 4×80×1	320	1015	1.65	2.12	785	906	1015	1110	1200
ShMG 4×100×1	400	1225	1.72	2.25	947	1093	1225	1340	1446
ShMG 5×20×1	100	420	1.72	2.25	326	376	420	460	498
ShMG 5×24×1	120	514	1.72	2.25	398	460	514	563	608
ShMG 5×32×1	160	640	1.72	2.25	496	573	640	702	758
ShMG 5×40×1	200	760	1.72	2.25	590	680	760	832	900
ShMG 5×50×1	250	930	1.72	2.25	718	830	930	1016	1100
ShMG 5×63×1	315	1030	1.65	2.12	797	920	1030	1125	1220
ShMG 5×80×1	400	1175	1.65	2.12	910	1050	1175	1285	1390
ShMG 5×100×1	500	1385	1.6	2.02	1070	1235	1385	1515	1635
ShMG 6×9×0,8	43.2	245	1.72	2.25	190	220	245	269	290
ShMG 6×15,5×0,8	74.4	402	1.72	2.25	318	360	402	440	476
ShMG 6×20×1	120	462	1.72	2.25	358	413	462	506	546
ShMG 6×24×1	144	566	1.72	2.25	438	506	566	620	670
ShMG 6×32×1	192	715	1.72	2.25	555	640	715	783	846
ShMG 6×40×1	240	860	1.72	2.25	1018	943	860	770	667
ShMG 6×50×1	300	1035	1.72	2.25	802	925	1035	1135	1225
ShMG 6×63×1	378	1215	1.65	2.12	941	1085	1215	1330	1437

* Amperage based on maximum cabinet temperature 75°C.

Name	Section, mm²	Permissible amperage*, A	Coef. with parallel connection of several buses		Current, A				
			2 buses	3 buses	ΔT 30°	ΔT 40°	ΔT 50°	ΔT 60°	ΔT 70°
ShMG 6×80×1	480	1375	1.65	2.12	1065	1230	1375	1505	1627
ShMG 6×100×1	600	1550	1.6	2.02	1205	1393	1550	1705	1843
ShMG 8×24×1	192	678	1.72	2.25	525	606	678	743	802
ShMG 8×32×1	256	860	1.72	2.25	667	770	860	943	1018
ShMG 8×40×1	320	1040	1.72	2.25	805	930	1040	1140	1230
ShMG 8×50×1	400	1175	1.72	2.25	912	1050	1175	1290	1393
ShMG 8×63×1	504	1395	1.65	2.12	1080	1245	1395	1525	1650
ShMG 8×80×1	640	1600	1.65	2.12	1240	1430	1600	1755	1895
ShMG 8×100×1	800	1815	1.6	2.02	1405	1625	1815	1990	2147
ShMG 8×120×1	960	2135	1.6	2.02	1650	1905	2135	2340	2530
ShMG 9×9×0,8	64.8	265	1.72	2.25	206	237	265	291	314
ShMG 10×15,5×0,8	124	455	1.72	2.25	352	407	455	498	538
ShMG 10×20×1	200	645	1.72	2.25	500	576	645	706	762
ShMG 10×24×1	240	800	1.72	2.25	592	716	800	877	948
ShMG 10×32×1	320	1040	1.72	2.25	805	930	1040	1140	1230
SHMG 10×40×1	400	1181	1.72	2.25	915	1055	1181	1295	1400
ShMG 10×50×1	500	1395	1.72	2.25	1080	1245	1395	1525	1650
ShMG 10×63×1	630	1600	1.65	2.12	1240	1435	1600	1755	1895
ShMG 10×80×1	800	1775	1.65	2.12	1375	1585	1775	1945	2100
ShMG 10×100×1	1000	1985	1.6	2.02	1535	1775	1985	2170	2350
ShMG 10×120×1	1200	2330	1.6	2.02	1792	2070	2330	2550	2755
ShMG 10×160×1	1600	3480	1.48	1.86	2695	3115	3480	3810	4115
ShMG 12×100×1	1200	2115	1.6	2.02	1636	1890	2115	2315	2500
ShMG 12×120×1	1440	2427	1.6	2.02	1868	2159	2427	2654	2869

* – Amperage based on the maximum temperature in the cabinet 75°C. The permissible current strength of the ShMG is determined by the formula: ΔT (°k) = T2 – T1, where: T1 is the temperature inside the cabinet, T2 is the bus temperature. The calculation assumes an ambient temperature of 25°C.

Distribution cabinet accessories
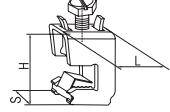
Bus terminals ZShI

Universal clamps (bus terminals)

IEK® universal clamps (terminals) with an additional integrated clamping plate are designed to connect conductors with cross-sections from 1.5 to 120 mm2 to flat copper and aluminum buses with a thickness of 5 or 10 mm for subsequent stress relief on the installed equipment. The use of bus clamps eliminates the need for drilling the buses to connect conductors during the assembly of low-voltage switchgear, which significantly saves the time and effort of the assembler, and also reduces the cost of work.

An additional spring plate ensures a secure fixation of the clamp on the busbar and significantly reduces the "self-loosening effect".

ZShI bus clamps are highly reliable, made of galvanized steel, resistant to corrosion and temperature. For added convenience, the nominal cross-section of the connected conductor and the maximum tightening torque of the screw are indicated on the clamp enclosure.

The use of an open terminal chamber makes the process of connecting conductors as simple and fast as possible.

Name	Section, mm²	Tightening torque of screws (bolts), N/m	H, mm	L, mm	S, mm	Amount in a package, pcs.	Article
Clamping unit (terminal block) ZShI 1,5-16 mm² for a bus 5 mm	1,5…16	3	26	22	12	20	YNT10-05-25-016
Clamping unit (terminal block) ZShI 16-35 mm² for a bus 5 mm	16…35	6…8	31	29	16	15	YNT10-05-16-050
Clamping unit (terminal block) ZShI 35-70 mm² for a bus 5 mm	35…70	10…12	39	31	21	10	YNT10-05-35-070
Clamping unit (terminal block) ZShI 70-120 mm² for a bus 5 mm	70…120	15	44	34	24	10	YNT10-05-70-185
Clamping unit (terminal block) ZShI 1,5-16 mm² for a bus 10 mm	1,5…16	3	31	22	12	20	YNT10-10-25-016
Clamping unit (terminal block) ZShI 16-35 mm² for a bus 10 mm	16…35	6…8	37	29	16	15	YNT10-10-16-050
Clamping unit (terminal block) ZShI 35-70 mm² for a bus 10 mm	35…70	10…12	43	31	21	10	YNT10-10-35-070
Clamping unit (terminal block) ZShI 70-120 mm² for a bus 10 mm	70…120	15	48	34	24	10	YNT10-10-70-185

Neutral buses

Uninsulated buses are used in switchboard equipment to connect neutral (N) and protective (PE) conductors. The bus is provided in the center (types 8/1; 14/1) and at the edges (types 8/2 and 14/2) through a neutral bus insulator on a 35 mm DIN rail and through angle neutral buses, as well as directly on the board panel. When connecting copper multi-core wires to the buses, it is recommended to terminate them with ferrules-sleeves. Made of brass.
ShNI buses with an insulator are intended for electrical and mechanical connection of neutral, protective and phase conductors. Structurally, the SHNI buses are made of a brass bus mounted on a plastic insulator or in an insulator made of self-extinguishing plastic.
Rated voltage 400 V.
Rated insulation voltage 500 V.
Normal operating conditions for buses are:
- ambient temperature +40°C to +50°C;
- maximum operating temperature +85°C;
- the average value of the relative humidity is not more than 90%.

Neutral N/PE buses with nickel plating
Nickel-plated buses and screws allow simultaneous connection of copper and aluminum conductors of different cross-sections.

Specifications

	Design	Hole diameter, mm		Maximum current, A	Insulator type	Mounting type
		d1	d2			
	6×9 X/1	4	6	100	–	on the insulator, screw in the center
	8×12 X/1	5	7.5	125	–	on the insulator, screw in the center
	6×9 X/2	4	6	100	–	on insulator, screwed at the edges
	8×12 X/2	5	7.5	125	–	on insulator, screwed at the edges
	6×9 N1	4	6	100	one angular	screw
	6×9 N2	4	6	100	two angular	screw
	8´12 U2	5	7.5	125	two angular	screw
	8×12 KS	7	7	125	combined rack DIN-insulator	DIN rail, screw, G-rail
	6×9 C	5.5	5.5	100	rack DIN-insulator	DIN rail
	6×9 K	5	5	100	enclosed DIN insulator	DIN rail
	6×9 D	4	6	100	DIN insulator	DIN rail
	8×12 D	5	7.5	125	DIN insulator	DIN rail

Distribution cabinet accessories

265

The structure of the conventional designation of buses with insulators:

ShNI-X-X-X-X

- Insulated bus
- Bus size:
  - 6×9;
  - 8×12
- Number of holes in the bus
- Design:
  - N2 – with two angle insulators;
  - N1 – with one angle insulator;
  - D – with DIN insulator;
  - C – rack DIN insulator;
  - KS – combined rack DIN insulator;
  - C – enclosed insulator for DIN rail
- Insulator color:
  - Z – green;
  - Zh – yellow;
  - Sr – gray;
  - S – blue
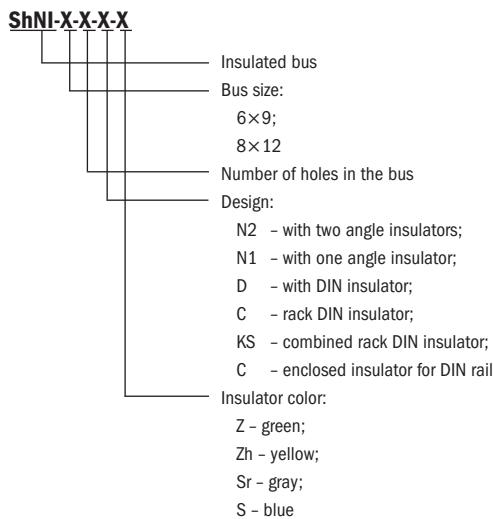
Assortment
Busbar without insulator
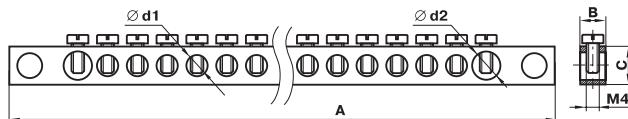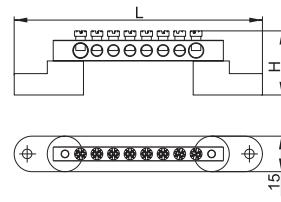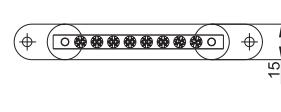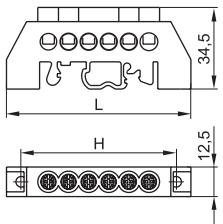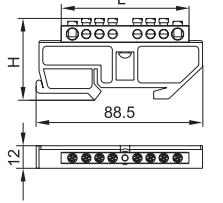
Name	Number of holes	Overall dimensions, mm			Thread	Package quantity, pcs.	Article	Article for Ni plated item
		A	B	C				
6×9 4/2	4	42	6	9	M4	10	YNN11-04-100	
6×9 6/2	6	54	6	9	M4	10	YNN11-06-100	YNN11-06-100-N
6×9 8/2	8	66	6	9	M4	10	YNN11-08-100	YNN11-08-100-N
6×9 10/2	10	78	6	9	M4	10	YNN11-10-100	YNN11-10-100-N
6×9 12/2	12	90	6	9	M4	10	YNN11-12-100	YNN11-12-100-N
6×9 14/2	14	102	6	9	M4	10	YNN11-14-100	YNN11-14-100-N
6×9 16/2	16	114	6	9	M4	10	YNN11-16-100	YNN11-16-100-N
6×9 18/2	18	126	6	9	M4	10	YNN11-18-100	
6×9 20/2	20	138	6	9	M4	10	YNN11-20-100	
6×9 22/2	22	150	6	9	M4	10	YNN11-22-100	
6×9 24/2	24	162	6	9	M4	10	YNN11-24-100	YNN11-24-100-N
8×12 4/2	4	49	8	12	M5	10	YNN21-04-100	
8×12 6/2	6	63	8	12	M5	10	YNN21-06-100	
8×12 8/2	8	77	8	12	M5	10	YNN21-08-100	
8×12 10/2	10	91	8	12	M5	10	YNN21-10-100	
8×12 12/2	12	105	8	12	M5	10	YNN21-12-100	
8×12 14/2	14	119	8	12	M5	10	YNN21-14-100	
8×12 16/2	16	133	8	12	M5	10	YNN21-16-100	
8×12 18/2	18	147	8	12	M5	10	YNN21-18-100	
8×12 20/2	20	161	8	12	M5	10	YNN21-20-100	
8×12 22/2	22	175	8	12	M5	10	YNN21-22-100	
8×12 24/2	24	189	8	12	M5	10	YNN21-24-100	
6×9 4/1	4	38	6	9	M4	10	YNN10-04-100	
6×9 6/1	6	51	6	9	M4	10	YNN10-06-100	YNN10-06-100-N
6×9 8/1	8	64	6	9	M4	10	YNN10-08-100	YNN10-08-100-N
6×9 10/1	10	77	6	9	M4	10	YNN10-10-100	YNN10-10-100-N
6×9 12/1	12	90	6	9	M4	10	YNN10-12-100	YNN10-12-100-N
6×9 14/1	14	103	6	9	M4	10	YNN10-14-100	YNN10-14-100-N
6×9 16/1	16	116	6	9	M4	10	YNN10-16-100	
6×9 18/1	18	129	6	9	M4	10	YNN10-18-100	
6×9 20/1	20	142	6	9	M4	10	YNN10-20-100	YNN10-20-100-N
6×9 22/1	22	155	6	9	M4	10	YNN10-22-100	
6×9 24/1	24	168	6	9	M4	10	YNN10-24-100	
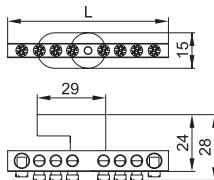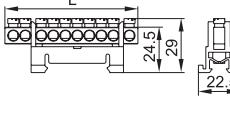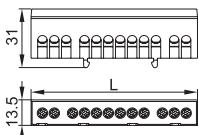
Name	Number of holes	Overall dimensions, mm			Thread	Package quantity, pcs. Article		Article for Ni plated item
		A	B	C				
8×12 4/1	4	42	8	12	M5	10	YNN20-04-100	
8×12 6/1	6	57	8	12	M5	10	YNN20-06-100	
8×12 8/1	8	72	8	12	M5	10	YNN20-08-100	
8×12 10/1	10	87	8	12	M5	10	YNN20-10-100	
8×12 12/1	12	102	8	12	M5	10	YNN20-12-100	
8×12 14/1	14	117	8	12	M5	10	YNN20-14-100	
8×12 16/1	16	132	8	12	M5	10	YNN20-16-100	
8×12 18/1	18	147	8	12	M5	10	YNN20-18-100	
8×12 20/1	20	162	8	12	M5	10	YNN20-20-100	
8×12 22/1	22	177	8	12	M5	10	YNN20-22-100	
8×12 24/1	24	192	8	12	M5	10	YNN20-24-100	

Dimensions	Name	Number of holes	L, mm	H, mm	Insulator color	Amount in a package, pcs.	Article	Article for Ni plated item
Bus with two angle insulators								
	ShNI-6×9-4-N2-S	4	47	28.0	Blue	10	YNN10-69-4C2-K07	
	ShNI-6×9-6-N2-S	6	59	28.0	Blue	10	YNN10-69-6C2-K07	YNN10-06-C2-K07-N
	ShNI-6×9-8-N2-S	8	71	28.0	Blue	10	YNN10-69-8C2-K07	YNN10-08-C2-K07-N
	ShNI-6×9-10-N2-S	10	83	28.0	Blue	10	YNN10-69-10C2-K07	YNN10-10-C2-K07-N
	ShNI-6×9-12-N2-S	12	95	28.0	Blue	10	YNN10-69-12C2-K07	YNN10-12-C2-K07-N
	ShNI-6×9-14-N2-S	14	107	28.0	Blue	10	YNN10-69-14C2-K07	YNN10-14-C2-K07-N
	ShNI-6×9-16-N2-S	16	119	28.0	Blue	10	YNN10-69-16C2-K07	
	ShNI-6×9-18-N2-S	18	131	28.0	Blue	10	YNN10-69-18C2-K07	
	ShNI-6×9-20-N2-S	20	143	28.0	Blue	10	YNN10-69-20C2-K07	YNN10-20-C2-K07-N
	ShNI-6×9-22-N2-S	22	155	28.0	Blue	10	YNN10-69-22C2-K07	
	ShNI-6×9-24-N2-S	24	167	28.0	Blue	10	YNN10-69-24C2-K07	YNN10-24-C2-K07-N
	ShNI-6×9-4-N2-Zh	4	47	28.0	Yellow	10	YNN10-69-4C2-K05	
	ShNI-6×9-6-N2-Zh	6	59	28.0	Yellow	10	YNN10-69-6C2-K05	
	ShNI-6×9-8-N2-Zh	8	71	28.0	Yellow	10	YNN10-69-8C2-K05	
	ShNI-6×9-10-N2-Zh	10	83	28.0	Yellow	10	YNN10-69-10C2-K05	
	ShNI-6×9-12-N2-Zh	12	95	28.0	Yellow	10	YNN10-69-12C2-K05	
	ShNI-6×9-14-N2-Zh	14	107	28.0	Yellow	10	YNN10-69-14C2-K05	
	ShNI-6×9-16-N2-Zh	16	119	28.0	Yellow	10	YNN10-69-16C2-K05	
	ShNI-6×9-18-N2-Zh	18	131	28.0	Yellow	10	YNN10-69-18C2-K05	
	ShNI-6×9-20-N2-Zh	20	143	28.0	Yellow	10	YNN10-69-20C2-K05	
	ShNI-6×9-22-N2-Zh	22	155	28.0	Yellow	10	YNN10-69-22C2-K05	
	ShNI-6×9-24-N2-Zh	24	167	28.0	Yellow	10	YNN10-69-24C2-K05	
	ShNI-8×12-4-N2-S	4	54	32.0	Blue	10	YNN10-812-4C2-K07	
	ShNI-8×12-6-N2-S	6	68	29.3	Blue	10	YNN10-812-6C2-K07	
	ShNI-8×12-8-N2-S	8	82	29.3	Blue	10	YNN10-812-8C2-K07	
	ShNI-8×12-10-N2-S	10	96	29.3	Blue	10	YNN10-812-10C2-K07	
	ShNI-8×12-12-N2-S	12	110	29.3	Blue	10	YNN10-812-12C2-K07	
	ShNI-8×12-14-N2-S	14	124	29.3	Blue	10	YNN10-812-14C2-K07	
	ShNI-8×12-16-N2-S	16	138	29.3	Blue	10	YNN10-812-16C2-K07	
	ShNI-8×12-18-N2-S	18	152	29.3	Blue	10	YNN10-812-18C2-K07	
	ShNI-8×12-20-N2-S	20	166	29.3	Blue	10	YNN10-812-20C2-K07	
	ShNI-8×12-22-N2-S	22	180	29.3	Blue	10	YNN10-812-22C2-K07	
	ShNI-8×12-24-N2-S	24	194	29.3	Blue	10	YNN10-812-24C2-K07	
	ShNI-8×12-4-N2-Zh	4	54	29.3	Yellow	10	YNN10-812-4C2-K05	
	ShNI-8×12-6-N2-Zh	6	68	29.3	Yellow	10	YNN10-812-6C2-K05	
	ShNI-8×12-8-N2-Zh	8	82	29.3	Yellow	10	YNN10-812-8C2-K05	
	ShNI-8×12-10-N2-Zh	10	96	29.3	Yellow	10	YNN10-812-10C2-K05	
	ShNI-8×12-12-N2-Zh	12	110	29.3	Yellow	10	YNN10-812-12C2-K05	
	ShNI-8×12-14-N2-Zh	14	124	29.3	Yellow	10	YNN10-812-14C2-K05	
	ShNI-8×12-16-N2-Zh	16	138	29.3	Yellow	10	YNN10-812-16C2-K05	
	ShNI-8×12-18-N2-Zh	18	152	29.3	Yellow	10	YNN10-812-18C2-K05	
	ShNI-8×12-20-N2-Zh	20	166	29.3	Yellow	10	YNN10-812-20C2-K05	
	ShNI-8×12-22-N2-Zh	22	180	29.3	Yellow	10	YNN10-812-22C2-K05	
	ShNI-8×12-24-N2-Zh	24	194	29.3	Yellow	10	YNN10-812-24C2-K05	

Dimensions	Name	Number of holes	L, mm	H, mm	Insulator color	Amount in a package, pcs.	Article	Article Ni plated
Bus in a combined rack DIN insulator								
	ShNI-8×12-6-KS-S	6	78	66	Blue	20	YNN10-812-6DP-K07	
	ShNI-8×12-8-KS-S	8	95	83	Blue	20	YNN10-812-8DP-K07	
	ShNI-8×12-10-KS-S	10	112	100	Blue	20	YNN10-812-10DP-K07	
	ShNI-8×12-12-KS-S	12	129	117	Blue	20	YNN10-812-12DP-K07	
	ShNI-8×12-14-KS-S	14	146	134	Blue	20	YNN10-812-14DP-K07	
	ShNI-8×12-16-KS-S	16	163	151	Blue	20	YNN10-812-16DP-K07	
	ShNI-8×12-6-KS-Zh	6	78	66	Yellow	20	YNN10-812-6DP-K05	
	ShNI-8×12-8-KS-Zh	8	95	83	Yellow	20	YNN10-812-8DP-K05	
	ShNI-8×12-10-KS-Zh	10	112	100	Yellow	20	YNN10-812-10DP-K05	
	ShNI-8×12-12-KS-Zh	12	129	117	Yellow	20	YNN10-812-12DP-K05	
	ShNI-8×12-14-KS-Zh	14	146	134	Yellow	20	YNN10-812-14DP-K05	
	ShNI-8×12-16-KS-Zh	16	163	151	Yellow	20	YNN10-812-16DP-K05	
Bus with DIN insulator								
	ShNI-6×9-4-D-S	4	42	42.0	Blue	20	YNN10-69-4D-K07	
	ShNI-6×9-6-D-S	6	54	42.0	Blue	20	YNN10-69-6D-K07	YNN10-06-D-K07-N
	-6×9-8-D-S	8	66	42.0	Blue	20	YNN10-69-8D-K07	YNN10-08-D-K07-N
	ShNI-6×9-10-D-S	10	78	42.0	Blue	20	YNN10-69-10D-K07	YNN10-10-D-K07-N
	ShNI-6×9-12-D-S	12	90	42.0	Blue	20	YNN10-69-12D-K07	YNN10-12-D-K07-N
	ShNI-6×9-14-D-S	14	103	42.0	Blue	20	YNN10-69-14D-K07	YNN10-14-D-K07-N
	ShNI-6×9-16-D-S	16	116	42.0	Blue	20	YNN10-69-16D-K07	
	ShNI-6×9-18-D-S	18	129	42.0	Blue	20	YNN10-69-18D-K07	
	ShNI-6×9-20-D-S	20	142	42.0	Blue	20	YNN10-69-20D-K07	YNN10-20-D-K07-N
	ShNI-6×9-22-D-S	22	155	42.0	Blue	20	YNN10-69-22D-K07	
	ShNI-6×9-24-D-S	24	168	42.0	Blue	20	YNN10-69-24D-K07	YNN10-24-D-K07-N
	ShNI-8×12-4-D-S	4	49	45.4	Blue	20	YNN10-812-4D-K07	
	ShNI-8×12-6-D-S	6	63	45.4	Blue	20	YNN10-812-6D-K07	
	ShNI-8×12-8-D-S	8	77	45.4	Blue	20	YNN10-812-8D-K07	
	ShNI-8×12-10-D-S	10	91	45.4	Blue	20	YNN10-812-10D-K07	
	ShNI-8×12-12-D-S	12	102	45.4	Blue	20	YNN10-812-12D-K07	
	ShNI-8×12-14-D-S	14	117	45.4	Blue	20	YNN10-812-14D-K07	
	ShNI-8×12-16-D-S	16	132	45.4	Blue	20	YNN10-812-16D-K07	
	ShNI-8×12-18-D-S	18	147	45.4	Blue	20	YNN10-812-18D-K07	
	ShNI-8×12-20-D-S	20	162	45.4	Blue	20	YNN10-812-20D-K07	
	ShNI-8×12-22-D-S	22	177	45.4	Blue	20	YNN10-812-22D-K07	
	ShNI-8×12-24-D-S	24	192	45.4	Blue	20	YNN10-812-24D-K07	
	ShNI-6×9-4-D-Zh	4	42	42.0	Yellow	20	YNN10-69-4D-K05	
	ShNI-6×9-6-D-Zh	6	54	42.0	Yellow	20	YNN10-69-6D-K05	
	ShNI-6×9-8-D-Zh	8	66	42.0	Yellow	20	YNN10-69-8D-K05	
	ShNI-6×9-10-D-Zh	10	78	42.0	Yellow	20	YNN10-69-10D-K05	
	ShNI-6×9-12-D-Zh	12	90	42.0	Yellow	20	YNN10-69-12D-K05	
	ShNI-6×9-14-D-Zh	14	103	42.0	Yellow	20	YNN10-69-14D-K05	
	ShNI-6×9-16-D-Zh	16	116	42.0	Yellow	20	YNN10-69-16D-K05	
	ShNI-6×9-18-D-Zh	18	129	42.0	Yellow	20	YNN10-69-18D-K05	
	ShNI-6×9-20-D-Zh	20	142	42.0	Yellow	20	YNN10-69-20D-K05	
	ShNI-6×9-22-D-Zh	22	155	42.0	Yellow	20	YNN10-69-22D-K05	
	ShNI-6×9-24-D-Zh	24	168	42.0	Yellow	20	YNN10-69-24D-K05	
	ShNI-8×12-4-D-Zh	4	49	45.4	Yellow	20	YNN10-812-4D-K05	
	ShNI-8×12-6-D-Zh	6	63	45.4	Yellow	20	YNN10-812-6D-K05	
	ShNI-8×12-8-D-Zh	8	77	45.4	Yellow	20	YNN10-812-8D-K05	
	ShNI-8×12-10-D-Zh	10	91	45.4	Yellow	20	YNN10-812-10D-K05	
	ShNI-8×12-12-D-Zh	12	102	45.4	Yellow	20	YNN10-812-12D-K05	
	ShNI-8×12-14-D-Zh	14	117	45.4	Yellow	20	YNN10-812-14D-K05	
	ShNI-8×12-16-D-Zh	16	132	45.4	Yellow	20	YNN10-812-16D-K05	
	ShNI-8×12-18-D-Zh	18	147	45.4	Yellow	20	YNN10-812-18D-K05	
	ShNI-8×12-20-D-Zh	20	162	45.4	Yellow	20	YNN10-812-20D-K05	
	ShNI-8×12-22-D-Zh	22	177	45.4	Yellow	20	YNN10-812-22D-K05	
	ShNI-8×12-24-D-Zh	24	192	45.4	Yellow	20	YNN10-812-24D-K05	

Dimensions	Name	Number of holes	L, mm	Insulator color	Amount in a package, pcs.	Article	Article for Ni plated item

Insulated bus with one angle insulator

	ShNI-6×9-4-N1-S	4	38	Blue	10	YNN10-69-4C1-K07	
	ShNI-6×9-6-N1-S	6	51	Blue	10	YNN10-69-6C1-K07	
	ShNI-6×9-8-N1-S	8	64	Blue	10	YNN10-69-8C1-K07	YNN10-08-C1-K07-N
	ShNI-6×9-10-N1-S	10	77	Blue	10	YNN10-69-10C1-K07	YNN10-10-C1-K07-N
	ShNI-6×9-12-N1-S	12	90	Blue	10	YNN10-69-12C1-K07	YNN10-12-C1-K07-N
	ShNI-6×9-14-N1-S	14	103	Blue	10	YNN10-69-14C1-K07	YNN10-14-C1-K07-N
	ShNI-6×9-16-N1-S	16	116	Blue	10	YNN10-69-16C1-K07	
	ShNI-6×9-18-N1-S	18	129	Blue	10	YNN10-69-18C1-K07	
	ShNI-6×9-20-N1-S	20	142	Blue	10	YNN10-69-20C1-K07	
	ShNI-6×9-22-N1-S	22	155	Blue	10	YNN10-69-22C1-K07	
	ShNI-6×9-24-N1-S	24	168	Blue	10	YNN10-69-24C1-K07	
	ShNI-6×9-4-N1-S	4	38	Yellow	10	YNN10-69-4C1-K05	
	ShNI-6×9-6-N1-Zh	6	51	Yellow	10	YNN10-69-6C1-K05	
	ShNI-6×9-8-N1-Zh	8	64	Yellow	10	YNN10-69-8C1-K05	
	ShNI-6×9-10-N1-Zh	10	77	Yellow	10	YNN10-69-10C1-K05	
	ShNI-6×9-12-N1-Zh	12	90	Yellow	10	YNN10-69-12C1-K05	
	ShNI-6×9-14-N1-Zh	14	103	Yellow	10	YNN10-69-14C1-K05	
	ShNI-6×9-16-N1-Zh	16	116	Yellow	10	YNN10-69-16C1-K05	
	ShNI-6×9-18-N1-Zh	18	129	Yellow	10	YNN10-69-18C1-K05	
	ShNI-6×9-20-N1-Zh	20	142	Yellow	10	YNN10-69-20C1-K05	
	ShNI-6×9-22-N1-Zh	22	155	Yellow	10	YNN10-69-22C1-K05	
	ShNI-6×9-24-N1-Zh	24	168	Yellow	10	YNN10-69-24C1-K05	

Bus with rack type DIN insulator

	ShNI-6×9-8-S-S	8	59	Blue	10	YNN10-69-8P-K07	
	ShNI-6×9-10-S-S	10	72	Blue	10	YNN10-69-10P-K07	
	ShNI-6×9-12-S-S	12	85	Blue	10	YNN10-69-12P-K07	
	ShNI-6×9-14-S-S	14	98	Blue	10	YNN10-69-14P-K07	
	ShNI-6×9-8-S-Zh	8	59	Yellow	10	YNN10-69-8P-K05	
	ShNI-6×9-10-S-Zh	10	72	Yellow	10	YNN10-69-10P-K05	
	ShNI-6×9-12-S-Zh	12	85	Yellow	10	YNN10-69-12P-K05	
	ShNI-6×9-14-S-Zh	14	98	Yellow	10	YNN10-69-14P-K05	

Bus in an enclosed insulator for a DIN rail

	ShNI-6×9-8-K-Z	8	62	Green	10	YNN10-69-8KD-K06	
	ShNI-6×9-10-K-Z	10	75	Green	10	YNN10-69-10KD-K06	
	ShNI-6×9-12-K-Z	12	88	Green	10	YNN10-69-12KD-K06	
	ShNI-6×9-14-K-Z	14	101	Green	10	YNN10-69-14KD-K06	
	ShNI-6×9-16-K-Z	16	114	Green	10	YNN10-69-16KD-K06	
	ShNI-6×9-8-K-Z	8	62	Blue	10	YNN10-69-8KD-K07	
	ShNI-6×9-10-K-S	10	75	Blue	10	YNN10-69-10KD-K07	
	ShNI-6×9-12-K-S	12	88	Blue	10	YNN10-69-12KD-K07	
	ShNI-6×9-14-K-S	14	101	Blue	10	YNN10-69-14KD-K07	
	ShNI-6×9-16-K-S	16	114	Blue	10	YNN10-69-16KD-K07	
	ShNI-6×9-8-K-Sr	8	62	Grey	10	YNN10-69-8KD-K02	
	ShNI-6×9-10-K-Sr	10	75	Grey	10	YNN10-69-10KD-K02	
	ShNI-6×9-12-K-Sr	12	88	Grey	10	YNN10-69-12KD-K02	
	ShNI-6×9-14-K-Sr	14	101	Grey	10	YNN10-69-14KD-K02	
	ShNI-6×9-16-K-Sr	16	114	Grey	10	YNN10-69-16KD-K02	

Distribution cabinet accessories

Enclosed busbars (cross-modules) ShNK

High-quality.
They are used in the assembly of switchboard equipment to connect the neutral wire (zero working bus), ground wire and phase conductors.
Installation methods:
– on a 35 mm mounting DIN rail;
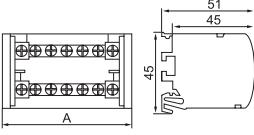– onto the panel with two screws.
Each bus is separately insulated.

Cross-modules are manufactured with two or four buses, rated for currents up to 100 and 125 A.

Specifications

Name	Maximum current, A	Cross-section of connected conductors, mm²		Number and diameter of holes
		with sleeve tip	without tip	
Enclosed busbars for DIN rail (cross-module) ShNK L+PEN 2×7 IEK	100	1,5–6,0	1,5–6,0	5 × ∅5,3 mm
		6,0–16,0	6,0–16	2 × ∅7,5 mm
Enclosed busbars for DIN rail (cross-module) ShNK L+PEN 2×15 IEK	125	1,5–6,0	2,5–6,0	11 × ∅5,3 mm
		6,0–16,0	10,0–25,0	2 × ∅7,5 mm
		10,0–16,0	10,0–35,0	2 × ∅9 mm
Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×7 IEK	100	1,5–6,0	2,5–6,0	5 × ∅5,3 mm
		6,0–16	10,0–25,0	2 × ∅7,5 mm
Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×11 IEK	125	1,5–6,0	2,5–6,0	7 × ∅5,3 mm
		6,0–16,0	10,0–25,0	2 × ∅7,5 mm
		10,0–16,0	10,0–35,0	2 × ∅9 mm
Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×15 IEK	125	1,5–6,0	2,5–6,0	11 × ∅5,3 mm
		6,0–16,0	10,0–25,0	2 × ∅7,5 mm
		10,0–16,0	10,0–35,0	2 × ∅9 mm

Assortment

	Dimensions	Name	A, mm	Number in transp. packing, pcs.	Article
		Enclosed busbars for DIN rail (cross-module) ShNK L+PEN 2×7 IEK	65	50	YND10-2-07-100
		Enclosed busbars for DIN rail (cross-module) ShNK L+PEN 2×15 IEK	132	50	YND10-2-15-125
		Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×7 IEK	65	50	YND10-4-07-100
		Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×11 IEK	100	50	YND10-4-11-125
		Enclosed busbars for DIN rail (cross-module) ShNK 3L+PEN 4×15 IEK	132	50	YND10-4-15-125

Distribution cabinet accessories

DIN rail switchgears RBD

The switchgears RBD are designed to be used as a terminal clamp when connecting several conductors of a smaller cross-section to a conductor with a larger cross-section, to create ordered distribution systems in cabinets, to organize the main grounding bus. They are designed for mounting on a DIN-rail or on a mounting panel both in power cabinets and in apartment distribution boards, for operation in networks with voltages up to 1000 V and frequency of 50 Hz at an ambient temperature of −40 to +70°C. High-quality. The enclosure is made of non-combustible plastic.
Installation methods:
- on a 35 mm DIN mounting rail,
- onto the panel board with two screws.

Specifications

Parameter	Value					
Rated voltage, V	660			1000		
Rated currents, A	80	125	160	250	400	500
Rated impulse current withstand strength I_{pk}, kA	22	30	30	51	51	51
Maximum RMS short-time current I_{cw} (kA)	3	4.2	11.8	24.5	24.5	24.5
Degree of protection	IP20					
Operating temperature, °C	$-40 \div +70$					

Assortment

	Dimensions	Name	Rated current, A	Input terminals	Output terminals	Weight, kg	Amount in a package, pcs.	Article
		DIN rail switchgear RBD-80A	80	1×16 mm²	2×16 mm² 4×10 mm²	0.07	6	RBD-80
		DIN rail switchgear RBD-125A	125	1×35 mm² 1×16 mm²	6×16 mm²	0.14	6	RBD-125
		DIN rail switchgear RBD-160A	160	1×70 mm² 1×16 mm²	6×16 mm²	0.14	6	RBD-160
		DIN rail switchgear RBD-250A	250	1×120 mm²	5×16 mm² 2×35 mm² 4×10 mm²	0.44	6	RBD-250
		DIN rail switchgear RBD-400A	400	1×185 mm²	5×16 mm² 2×35 mm² 4×10 mm²	0.46	6	RBD-400
		DIN rail switchgear RBD-500A	500	flat bus width 15-24 mm thickness 3-8 mm	5×16 mm² 2×35 mm² 4×10 mm²	0.39	6	RBD-500

Feed-through switch boxes RBDp

They are designed for making branches from trunk lines of copper and aluminum wires with voltage up to 660V with preliminary removal of insulation at the installation site without cutting the central conductor.
Operating temperature: −40 to 105°C.

Assortment

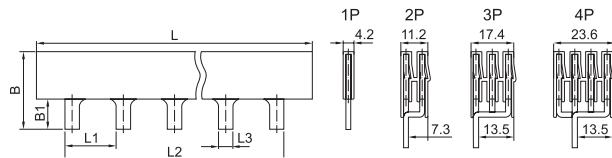|	Name	Rated current, A		Input terminals	Output terminals	Amount in a package, pcs.	Article
		For the central core	For branch conductors				
	Feed-through switch box -35 125/50A DIN 1x35-4x6mm²	125	50	4-35	1.5-6	10	YRB30-1-125
	Feed-through switch box -95 232/100A DIN 1x95-4x16mm²	232	100	16-95	6-16	8	YRB30-1-232

Bridging bars

They are used for convenient and safe connection of groups: MCB, RCCB, RCBO, switch-disconnectors. Buses with a pitch of 18 mm are intended for switching equipment with a width that is a multiple of one module, buses with a pitch of 27 mm are intended for switching products with a width that is a multiple of one and a half modules. Buses designed for a rated current of 100 A can be used with a rated current of 125 A if the input circuit breaker is connected in the center. Side plugs are available for 1.5-module buses.

Assortment

PIN 63 A

FORK 63 A

	Name	Rated current, A	Maximum number of connected devices, pcs.	Dimensions, mm						Article
				L	L1	L2	L3	B	B1	
	PIN 1P 63 A pitch 18 mm 12 pins	63	12	220	18	204	5.5	13.9	9.5	YNS21-1-063-22-12
	PIN 3P 63 A pitch 18 mm 12 pins	63	12	220	18	193	5.5	22.3	11.5	YNS21-3-063-22-12
	PIN 1P 63 A pitch 18 mm	63	54	1000	18	954	4	13.9	9.5	YNS21-1-063
	PIN 2P 63 A pitch 18 mm	63	54	1000	18	954	4	20.2	11	YNS21-2-063
	PIN 3P 63 A pitch 18 mm	63	54	1000	18	954	4	22.3	11.5	YNS21-3-063
	PIN 4P 63 A pitch 18 mm	63	56	1000	18	990	4	28.3	12	YNS21-4-063
	FORK 1P 63 A pitch 18 mm	63	54	1000	18	954	11	15.4	11	YNS11-1-063
	FORK 2P 63 A pitch 18 mm	63	54	1000	18	954	11	21.7	12.5	YNS11-2-063
	FORK 3P 63 A pitch 18 mm	63	54	1000	18	954	11	22.8	11.5	YNS11-3-063
	FORK 4P 63 A pitch 18 mm	63	52	1000	18	918	12	29.8	13.5	YNS11-4-063

PIN 63 A for differential circuit breakers
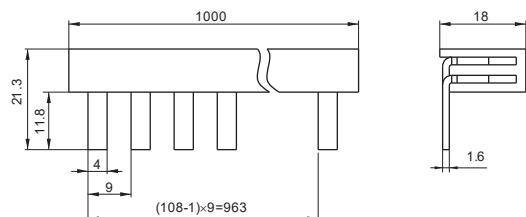
YNS21-2-063-108
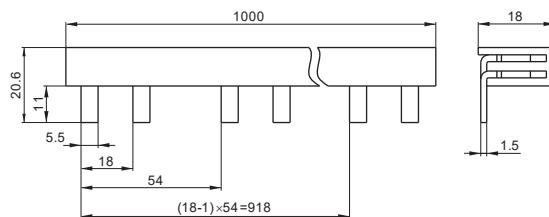
YNS21-2-063-036
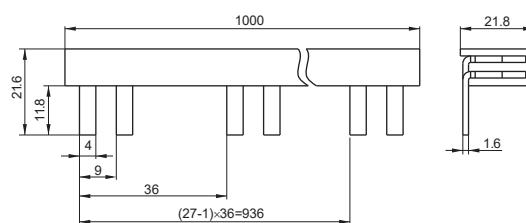
YNS21-2-063-054

	Name	Rated current, A	Max. number of connected devices, pcs.	Dimensions, mm						Article
				L	L1	L2	L3	B	B1	
	PIN 2P 63A pitch 9 mm 108 mod. for AVDT32M	63	108 x 1/2 mod.	1000	9	963	4	21	12	YNS21-2-063-108
	PIN 2P 63A 36 mod. for AD12	63	36	1000	18	972	5.5	20.7	11.2	YNS21-2-063-036
	PIN 2P 63A pitch 9 mm 54 mod. for diff. circuit breaker	63	54 x S mod.	1000	9	963	4	21	12	YNS21-2-063-054

PIN 100 A

FORK 100 A
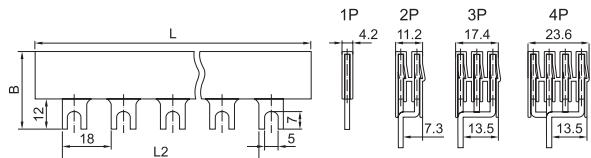
	Name	Rated current, A	Maximum number of connected devices, pcs.	Dimensions, mm						Article
				L	L1	L2	L3	B	B1	
	PIN 1P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	5	30.5	12	YNS21-1-100
	PIN 2P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	5	37.5	12	YNS21-2-100
	PIN 3P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	5	37.5	12	YNS21-3-100
	PIN 4P 100 A pitch 18 mm IEK	100 (125*)	56	1030	18	990	6	37.5	12	YNS21-4-100
	PIN 1P 100 A pitch 27 mm IEK	100 (125*)	37	1000	27	972	7.5	38.5	20	YNS51-1-100
	PIN 2P 100 A pitch 27 mm IEK	100 (125*)	36	1000	27	945	7.5	46.2	12	YNS51-2-100
	PIN 3P 100 A pitch 27 mm IEK	100 (125*)	36	1000	27	945	7.5	46.2	12	YNS51-3-100
	PIN 4P 100 A pitch 27 mm IEK	100 (125*)	36	1030	27	945	7.5	46.2	12	YNS51-4-100
	FORK 1P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	9	30.5	12	YNS11-1-100
	FORK 2P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	9	37.5	12	YNS11-2-100
	FORK 3P 100 A pitch 18 mm IEK	100 (125*)	54	1000	18	954	9	37.5	12	YNS11-3-100
	FORK 4P 100 A pitch 18 mm IEK	100 (125*)	56	1030	18	990	9	37.5	12	YNS11-4-100
	Plug for PIN 1P 100 A pitch 27mm IEK									YNK51-1-100
	Plug for PIN 2P 100 A pitch 27mm IEK									YNK51-2-100
	Plug for PIN 3P 100 A pitch 27mm IEK									YNK51-3-100
	Plug for PIN 4P 100A pitch 27 mm IEK									YNK51-4-100

Modular input terminal KVM

Input terminals for modular equipment IEK® are designed to connect large conductors to modular equipment, create loop-through connections of groups of circuit breakers using a round cable.

The screw clamp is made of brass, the material of the current-carrying part of the terminals is copper with anti-corrosion coating.

Advantages of the input terminals for IEK® modular equipment:

- The flat busbar contact of the input terminal creates a large contact surface with the busbar contact.
– Galvanic coating of contacts ensures durability of connections.
- Convenient power supply to the connecting busbars and terminal clamps of modular devices.

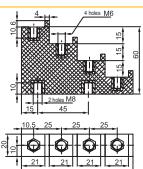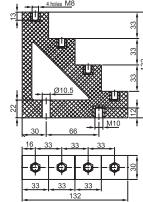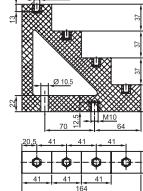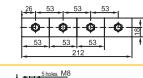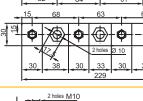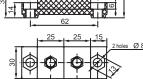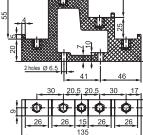|	Name	Rated current, A	Maximum torque, N/m	Nominal connecting capacity, mm²	Color	Article
	Input terminal for modular equipment KVM 4-25 mm (side input)	100	2.5	4..25	white	YKVM-4-25-S
	Input terminal for modular equipment KVM 4-25 mm (direct input)	100	2.5	4..25	grey	YKVM-4-25-F

* It is possible to use buses for currents of 125 A if the input device is connected in the center.

Step bus insulators

Step insulators IEK® are designed for rigid attachment and insulation of busbars inside electrical panels, busbar bridges and other equipment.

Insulators guarantee the absence of breakdowns between the buses and can be used in electrical equipment of direct and alternating current with a frequency of 50 Hz and voltage up to 1000 V.

The insulator enclosure is made of a special, mechanically resistant, non-combustible polymer with high electrical resistance.

Dimensions	Name	Breakdown voltage of industrial frequency insulation, kV	Weight, kg	Number of bolts per insulator	Amount in a package	Article
	IS4-20 (M6) power IEK	5.0	0,130	–	2	YIS11-4-20
	IS4-20 (M6) power with bolt IEK		0,180	4(M6×10)	2	YIS11-4-20-B
	IS4-30 (M8) power IEK	8.0	0,480	–	2	YIS11-4-30
	IS4-30 (M8) power with bolt IEK		0,520	4(M8×15)	2	YIS11-4-30-B
	IS4-40 (M8) power IEK	10.0	0,630	–	2	YIS11-4-40
	IS4-40 (M8) power with bolt IEK		0,670	4(M8×15)	2	YIS11-4-40-B
	IS4-50 (M10) power IEK	14.0	1,160	–	2	YIS11-4-50
	IS4-50 (M10) power with bolt IEK		1,240	4(M10×15)	2	YIS11-4-50-B
	ISv4-30 (M8) power IEK	14.0	0,520	–	2	YIS11-4-30-8
	IS4-30 (M8) power with bolt IEK		0,560	4(M8×15)	2	YIS11-4-30-8-B
	ISv4-40 (M10) power IEK	14.0	0,560	–	2	YIS11-4-40-8
	IS4-40 (M10) power with bolt IEK		0,640	4(M10×15)	2	YIS11-4-40-8-B
	IS2-25 (M8) power IEK	6.0	0,130	–	10	YIS11-2-25
	IS2-25 (M8) power with bolt IEK		0,150	2(M8×15)	10	YIS11-2-25-B
	IS4-25/1-15 (4×M6; 1×M5) power IEK	6.0	0,170	–	5	YIS11-5-25
	IS4-25/1-15 (4×M6; 1×M5) power with bolt IEK		0,194	4(M6×10)+ 1(M5×10)	5	YIS11-5-25-B

Bus insulators SM

Bus insulators are used for fixing current-carrying buses inside power cabinets and assemblies in order to fix and isolate current-carrying parts from the enclosure and assembly panels with the subsequent connection of power conductors to distribute electricity inside the switchboard.
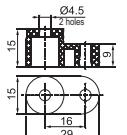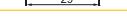
The insulator is fixed on one side with a bolt to the mounting panel or enclosure, on the other side the bus bar is attached to the insulator. Each bus is installed on at least two insulators (at the ends of the bus), and it is also possible to install intermediate insulators (depending on the installation scheme and the length of the bus).
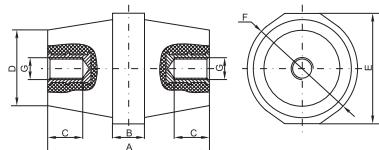
	Name	Dimensions, mm						Central bore diameter with internal thread	Rated operating voltage, V, not more	Article
		A	B ± 1	C ± 1	D±1	E±1	F±1			
	Power insulator SM25	25	9	9	25	30	30	M6	1000	YIS11-25-06
	Power insulator SM25 with bolt	25	9	9	25	30	30	M6	1000	YIS11-25-06-B
	Power insulator SM30	30	10	10	25	32	32	M8	1000	YIS11-30-08
	Power insulator SM30 with bolt	30	10	10	25	32	32	M8	1000	YIS11-30-08-B
	Power insulator SM35	35	10	11	28	32	32	M8	1000	YIS11-35-10
	Power insulator SM35 with bolt	35	10	11	28	32	32	M8	1000	YIS11-35-10-B
	Power insulator SM40	40	11	11	33	40	40	M8	1000	YIS11-40-12
	Power insulator SM40 with bolt	40	11	11	33	40	40	M8	1000	YIS11-40-12-B
	Power insulator SM45	45	11	11	30	36	36	M8	1000	YIS11-45-14
	Power insulator SM45 with bolt	45	11	11	30	36	36	M8	1000	YIS11-45-12-B
	Power insulator SM51	51	12	13	30	36	36	M8	1000	YIS11-51-15
	Power insulator SM51 with bolt	51	12	13	30	36	36	M8	1000	YIS11-51-15-B
	Power insulator SM60	60	12	13	34	46	46	M8	1000	YIS11-60-20
	Power insulator SM60 with bolt	60	12	13	34	46	46	M8	1000	YIS11-60-20-B
	Power insulator SM76	76	15	20	36	50	50	M10	1000	YIS11-76-25
	Power insulator SM76 with bolt	76	15	20	36	50	50	M10	1000	YIS11-76-25-B

Bus insulators

They are used for installing buses. They are made of non-flammable polypropylene.

	Dimensions	Name	Article
		Yellow DIN insulator	YIS21
		Blue DIN insulator	YIS22
		Yellow corner insulator for "0" bus	YIS31
		Blue corner insulator for "0" bus	YIS32

Plugs for 12 modules
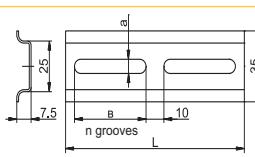
	Name	Article
	Plug for 12 modules, grey	YZM10-12
	Plug for 12 module, white	YZM10-12-K01

Glass for switchboards (plastic)

	Name	Overall dimensions, mm	dimensions for cutting	Article
	Glass for electrical panels (plastic), 103,5×79 mm	103,5×79	74.5x99.5mm	YWN11
	Glass for electrical panels (plastic), 109,5×71,3	109,5×71,3	71x109mm	YWN12

DIN rails and limiters

IEK® perforated DIN rails are used for mounting circuit breakers, modular equipment and other equipment. They are made of galvanized steel.

	Dimensions	Name	L, mm	a, mm	v, mm	n, pcs.	Number in a package	Article
		Galvanized DIN rail (7,5 cm)	75	6.5	20	2	50	YDN10-0007
		Galvanized DIN rail (10 cm)	100	6.5	20	2	50	YDN10-00100
		Galvanized DIN rail (11 cm)	110	6.5	20	3	50	YDN10-0011
		Galvanized DIN rail (13 cm)	130	6.5	20	3	50	YDN10-0013
		Galvanized DIN rail (20 cm)	200	6.5	20	4	50	YDN10-0020
		Galvanized DIN rail (22,5 cm)	225	6.5	20	7	50	YDN10-0022
		Galvanized DIN rail (25 cm)	250	6.5	20	5	50	YDN10-0025
		Galvanized DIN rail (30 cm)	300	6.5	20	10	50	YDN10-0030
		Galvanized DIN rail (45 cm)	450	6.5	20	15	20	YDN10-0045
		Galvanized DIN rail (60 cm)	600	6.5	20	20	20	YDN10-0060
		Galvanized DIN rail (80 cm)	800	6.5	20	26	20	YDN10-0080
		Galvanized DIN rail (100 cm)	1000	6.5	20	33	20	YDN10-0100
		Galvanized DIN rail (125 cm)	1250	6.5	20	41	20	YDN10-0125
		Galvanized DIN rail (140 cm)	1400	6.5	20	46	20	YDN10-0140
		Galvanized DIN rail (200 cm)	2000	6.5	20	66	10	YDN10-0200
		Galvanized DIN rail C-type 30×15×16 mm galvanized	2000	6.5	20	66	10	YDN30-0200

Distribution cabinet accessories

Brackets for fastening rails
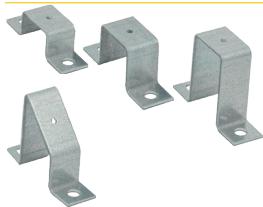
Name	Height	Amount in a package, pcs.	Article
Bracket for DIN-rail mounting	h = 20 mm	10	YDN10D-KH-020
	h = 30 mm	10	YDN10D-KH-030
	h = 50 mm	10	YDN10D-KH-050
Bracket for angular DIN rail mounting		10	YDN10D-KA-045

The IEK® DIN rail limiter (plastic) is used to fix and restrict the movement of modular equipment on a DIN rail. It is made of non-flammable polyamide. It is possible to use markings to identify rows of modular equipment.

Name	Amount in a package, pcs.		Article
	group	transp.	
DIN rail (metal) stopper	150	900	YXD10
DIN rail (plastic) stopper	50	2500	YXD12
End stopper (limiter with marking)	20	1300	YZN11DF-003-K03
Marking holder on the end stopper	50	2400	YZN11DFMH-003-K03

Cable clamp for C-profile

Designed to create orderly systems for distributing conductors in electrical panels and holding wires using a rail with a C-shaped section, for fastening the cable on mounting traverses and cable rails with an EMC contact. Helps relieve heavy wire weight from connections and contacts, providing additional assembly reliability. It is also suitable for attaching wires to the corresponding profile of cable support systems and trays.
Structurally, the clamps are made of galvanized steel with an installed plastic holder made of self-extinguishing plastic.

Name	Cable diameter, mm	Bolt thread diameter, mm	Torque, Nm	Amount in a package, pcs.	Article
Cable clamp for C-profile	6-14	6	5.5	20	YCC10-30-06-014
	12-18	6	5.5	20	YCC10-30-12-018
	18-22	6	5.5	20	YCC10-30-18-022
	22-30	6	5.5	10	YCC10-30-22-030
	30-38	6	5.5	10	YCC10-30-30-038
	38-42	6	5.5	10	YCC10-30-38-042
	42-50	8	12	10	YCC10-30-42-050
	50-64	8	12	10	YCC10-30-50-064

Plastic pocket for documentation

It is designed for storing technical documentation in cabinets of low-voltage switchgear for various purposes.
Design features:
- possibility of installation on a door or cabinet panel.
- installation method: adhesive layer (double-sided tape).
- material: plastic, which does not support combustion (test with a red-hot thread at 650°C).
- wide range of operating temperatures: from −20°C to + 60°C.
- color: gray RAL7035.

Name	Format	Maximum vertical load	Break load	Inner size	Article
Plastic pocket	A4	1 kg	3 Kg	235×220 mm	YPP10-A4-K03

Safety signs and movement directions

Safety signs and movement directions are designed to speed up the perception of information in order to ensure safety. Made in the form of a self-adhesive label

	Name	Article
220 В	Self-adhesive label 40×20 mm, "Symbol 220V"	YPC10-0220V-1-100
220 В	Self-adhesive label 90×38 mm, "Symbol 220 V"	YPC10-0220V-3-021
380 В	Self-adhesive label 90×38 mm, "Symbol 380 V"	YPC10-0380V-3-021
	Self-adhesive label 25×25×25 mm, "Symbol "Lightning""	YPC30-MOLNI-1-100
	Self-adhesive label 130×130×130 mm, "Symbol "Lightning""	YPC30-MOLNI-5-100
ОПАСНО	Self-adhesive label 100×150 mm, "Symbol "Danger""	YPC10-OPASN-4-100
ОПАСНО	Self-adhesive label 210×297 mm, "Symbol "Danger""	YPC10-OPASN-6-020
	Self-adhesive label 160×160x160 mm, "Symbol "Lightning""	YPC30-MOLNI-6-100
12 В	Self-adhesive label 90×38 mm, "Symbol 12 V"	YPC10-0012V-3-021
36 В	Self-adhesive label 40×20 mm, "Symbol 36 V"	YPC10-0036V-1-100
36 В	Self-adhesive label 90×38 mm, "Symbol 36 V"	YPC10-0036V-3-021
24 В	Self-adhesive label 90×38 mm, "Symbol 24 V"	YPC10-0024V-3-021
42 В	Self-adhesive label 90×38 mm, "Symbol 42 V"	YPC10-0042V-3-021
12 В	Self-adhesive label 40×20 mm, "Symbol 12 V"	YPC10-0012V-1-100
24 В	Self-adhesive label 40×20 mm, "Symbol 24 V"	YPC10-0024V-1-100
380 В	Self-adhesive label 40×20 mm, "Symbol 380 V"	YPC10-0380V-1-100
42 В	Self-adhesive label 40×20 mm, "Symbol 42 V"	YPC10-0042V-1-100
ОПАСНО	Self-adhesive label 77×52 mm, "Symbol "Danger""	YPC10-OPASN-2-020
	Self-adhesive label 30×30 mm, "Symbol "Danger""	YPC20-ZAZEM-1-096
	Self-adhesive label 100×100×100 mm, "Symbol "Lightning""	YPC30-MOLNI-4-096
	Self-adhesive label 50×50×50 mm, "Symbol "Lightning""	YPC30-MOLNI-2-110
	Self-adhesive label 85×85×85 mm, "Symbol "Lightning""	YPC30-MOLNI-3-096
	Self-adhesive label ∅180 mm "No entry"	YPC40-PRZAP-1-010

Distribution cabinet accessories

	Name	Article
	Self-adhesive label ⌀180 mm "Never use an open fire and no smoking"	YPC40-ZPKUR-1-010
	Self-adhesive label ⌀180 mm "Smoke here"	YPC40-KURIT-1-010
	Self-adhesive label 150×150 mm, "Fire hazard"	YPC20-POGOP-2-010
	Self-adhesive label 150×150 mm, "Attention hazard"	YPC20-VNOPS-2-010
	Self-adhesive label 150×150 mm, "Fire extinguisher"	YPC20-OGNET-2-010
	Self-adhesive label 150×150 mm, "First aid kit"	YPC20-MEDAP-2-010
РАБОТАТЬ ЗДЕСЬ	Self-adhesive label 150×150 mm, "Work here"	YPC20-RABZD-2-010
ВЛЕЗАТЬ ЗДЕСЬ	Self-adhesive label 150×150 mm, "Get in here"	YPC20-VLZZD-2-010
	Self-adhesive label 150×150 mm, "Fire hydrant"	YPC10-POGKR-5-010
НЕ ВКЛЮЧАТЬ РАБОТАЮТ ЛЮДИ	Self-adhesive label 200×100 mm, "Do not switch on! Men working"	YPC10-NEVKL-5-010
НЕ ВКЛЮЧАТЬ РАБОТА НА ЛИНИИ	Self-adhesive label 200×100 mm, "Do not switch on! Line work"	YPC10-NEVKR-5-010
НЕ ОТКРЫВАТЬ РАБОТАЮТ ЛЮДИ	Self-adhesive label 200×100 mm, "Do not open! Men working"	YPC10-NEOTK-5-010
СТОЙ! НАПРЯЖЕНИЕ	Self-adhesive label 200×100 mm, "Stop! Voltage!"	YPC10-STNAP-5-010
НЕ ВЛЕЗАЙ! УБЬЕТ	Self-adhesive label 200×100 mm, "Danger! Keep out"	YPC10-NEVLZ-5-010
ЗАЗЕМЛЕНО	Self-adhesive label 200×100 mm, "Grounded"	YPC10-ZAZEM-5-010

	Name	Article
	Self-adhesive label: 150×150 mm, "Exit here" (left-hand)	YPC30-150VZ-LSTR
	Self-adhesive label: 50×50 mm, "Exit here" (left-hand)	YPC30-50VZ-LSTR
	Self-adhesive label: 150×150 mm, "Exit here" (right-hand)	YPC30-150VZ-PSTR
	Self-adhesive label: 50×50 mm, "Exit here" (right-hand)	YPC30-50VZ-PSTR
	Self-adhesive label: 150×150 mm, "Direction to the emergency exit (up the stairs to the left)"	YPC30-150NEV-LNALVV
	Self-adhesive label: 50×50 mm, "Direction to the emergency exit (up the stairs to the left)"	YPC30-50NEV-LNALVV
	Self-adhesive label: 150×150 mm, "Direction to the emergency exit (down the stairs to the left)"	YPC30-150NEV-LNALVN
	Self-adhesive label: 50×50 mm, "Direction to the emergency exit (down the stairs to the left)"	YPC30-50NEV-LNALVN
	Self-adhesive label: 150×150 mm, "Direction to the emergency exit (up the stairs to the right)"	YPC30-150NEV-LNAPRVV
	Self-adhesive label: 50×50 mm, "Direction to the emergency exit (up the stairs to the right)"	YPC30-50NEV-LNAPRVV
	Self-adhesive label: 150×150 mm, "Direction to the emergency exit (down the stairs to the right)"	YPC30-150NEV-LNAPRVN
	Self-adhesive label: 50×50 mm, "Direction to the emergency exit (down the stairs to the right)"	YPC30-50NEV-LNAPRVN
ВЫХОД	Self-adhesive label: 200×100 mm, "EXIT"	YPC30-2010V
ВЫХОД	Self-adhesive label: 100×50 mm, "EXIT"	YPC30-105V
ЗАПАСНЫЙ ВЫХОД	Self-adhesive label: 200×100 mm, "EMERGENCY EXIT"	YPC30-2010ZAPV

	Name	Article
ЗАПАСНЫЙ ВЫХОД	Self-adhesive label: 100×50 mm, "EMERGENCY EXIT"	YPC30-105ZAPV
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the left upstairs"	YPC30-2010NEV-NALVV
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the left upstairs"	YPC30-105NEV-NALVV
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the left downstairs"	YPC30-2010NEV-NALVN
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the left downstairs"	YPC30-105NEV-NALVN
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the left"	YPC30-2010NEV-NAL
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the left"	YPC30-105NEV-NAL
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the right upstairs"	YPC30-2010NEV-NAPRVV
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the right upstairs"	YPC30-105NEV-NAPRVV
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the right downstairs"	YPC30-2010NEV-NAPRVN
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the right downstairs"	YPC30-105NEV-NAPRVN
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit to the right"	YPC30-2010NEV-NAPR
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit to the right"	YPC30-105NEV-NAPR
	Self-adhesive label: 200×100 mm, "Direction to the emergency exit straight ahead"	YPC30-2010NEV-PRM
	Self-adhesive label: 100×50 mm, "Direction to the emergency exit straight ahead"	YPC30-105NEV-PRM

Locks with metal keys

Made of chrome-plated steel. Metal keys, nickel plated. Designed to lock electrical assemblies and cabinets to protect against unauthorized entry and to protect the assembly from dust and moisture.

Assortment

		Name	Package quantity, pcs.		Article
			group.	transport	
		Lock 18-18/34	10	500	YZK10-18-18-34
		Lock 18-20/40	10	500	YZK10-18-20-40
		Lock 20-22/40	6	300	YZK10-20-22-40
		Lock 20-22/45	6	300	YZK11-20-22-45
		Latch-lock for metal box	15	300	YZK20-00
		Latch lock with a three-edged key IP54 22-25/44	6	300	YZK21-00

Name	Dimensions, mm								
	B	B1	D	D1	H	H1	H2	H3	L
Lock 18-18/34	16	16	22.5	18	28	5	7 max	18.8	34
Lock 18-20/40	15	16.5	22	18	32.5	5	12 max	20.8	40
Lock 20-22/40	17	19	36	22	28	3	5 max	20	40
Lock 20-22/45	17	19	36	22	28	3	5 max	20	48
Latch-lock for metal box	19	20	28	22	47	21	6 max	17	46
Latch lock witha three-edged key IP54 22-25/44	20	20	28	22	31	4	8 max	25	44

Convection heaters on DIN rail

The heater on DIN rail is designed to heat the air inside electrical cabinets.
The convection airflow it generates prevents the formation of low temperature areas and protects electrical components from condensation and freezing due to temperature changes, as well as from corrosion of metal elements of active equipment.

Advantages

- Compact heaters are made of anodized aluminum profile and have a self-regulating function, which avoids overheating and maintains fire safety.
- The dynamic air heating system is most effective during long-term operation and allows significant savings in energy consumption.
- The optimal shape of the radiator increases the efficiency of heat transfer by increasing the convection speed while maintaining small dimensions.
- Extended heater life with high reliability.
- Wide range of operating AC and DC voltage.
- Wide product range.

Specifications

Heater	Aluminium alloy
Coating	anodized
Plastic	polyamide 66 UL94 V0 (flame retardant)
Enclosure color	black (convection), silver (with fan)
Heating element	self-regulating PTC thermistor (temperature limiting)
Degree of protection	IP20
Protection class	I (protective grounding) – convection, II (with protective insulation) – with a fan
Operating voltage, V	AC/DC 120–240* (convection), AC 230 (with a fan)
Storage and operating temperature,°C	from −60 to +75
Operating / storage humidity	Max. 90% (non-condensing)
Tightening torque of screw terminals, N·m	0.8
Cross-section of the connected conductor, mm²	0.5-1.5 multi-core wire (with ferrule) 0.5-2.5 rigid wire
Service life not less, years	5

* − When operating on voltages below AC/DC 140 V, the heating power is reduced by 10%

Design features

The dynamic air heating system is most effective during long-term operation and allows significant savings in energy consumption.

An additionally integrated axial fan increases the rate of heat dissipation.

Metal bracket for DIN rail mounting improves operational reliability.

Increased safety, due to the double protective insulation of the enclosure, the surface temperature is reduced to 80°C (excluding the upper grill).

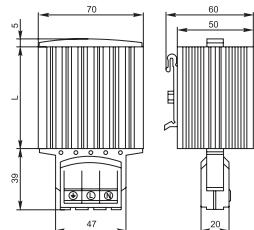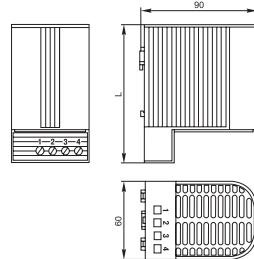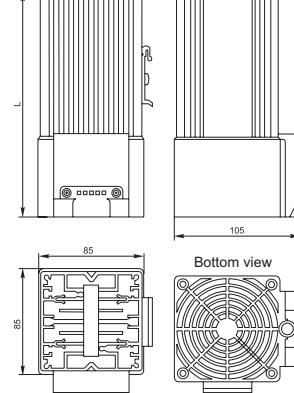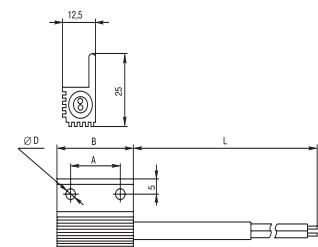Spring clips make installation as easy and fast as possible.

Protective grill prevents accidental ingress of foreign objects inside the enclosure and prevents personnel injury in case of touching.

The increased surface area of the heater improves heat transfer and allows significant energy savings.

Additional leads for connecting conductors provide the possibility of using it in various functional diagrams.

Dimensions	Name	Heating power, W*	Max. starting current, A	Circuit breaker current, A	L, mm	Weight, kg	Article
	Heater for DIN rail 15 W IP20	15	1.5	2	65	0.3	YCE-HG-015-20
	Heater for DIN rail 30 W IP20	30	3.0	4	65	0.3	YCE-HG-030-20
	Heater for DIN rail 45 W IP20	45	3.5	4	65	0.3	YCE-HG-045-20
	Heater for DIN rail 60 W IP20	60	2.5	4	140	0,4	YCE-HG-060-20
	Heater for DIN rail 75 W IP20	75	4.0	6	140	0.5	YCE-HG-075-20
	Heater for DIN rail 100 W IP20	100	4.5	6	140	0.5	YCE-HG-100-20
	Heater for DIN rail 150 W IP20	150	6.0	8	220	0.7	YCE-HG-150-20
	Enclosed heater for DIN rail 50W IP20	50	2.0	4	110	0.3	YCE-CS-050-20
	Enclosed heater for DIN rail 100W IP20	100	2.5	4	150	0.3	YCE-CS-100-20
	Enclosed heater for DIN rail 150W IP20	150	6.0	8	150	0.5	YCE-CS-150-20
	Heater on DIN rail (built-in fan**) 250W IP20	250	2.5	4	182	1.1	YCE-HGL-250-20
	Heater on DIN rail (built-in fan**) 400W IP20	400	3.0	6	222	1.4	YCE-HGL-400-20
	Mini heater 8W IP54 IEK	8	2.0	4.0	30	0.02	YCE-RC-08-20
	Mini heater 10W IP54 IEK	10	2.5	4.0	50	0.03	YCE-RC-10-20
	Mini heater 13 W IP54 IEK	13	3.0	6.0	60	0.04	YCE-RC-13-20

Bottom view

Distribution cabinet accessories

*   At an ambient temperature of 20°C.
** Fan capacity 45 m³/h at 50 Hz; service life 50,000 h at +25°C.

Installation Recommendations

– Low power heaters are recommended to be installed at the bottom of the cabinet.
– It is not recommended to place active equipment closer than 10 cm from the heater.
– It is not recommended to place bulky equipment above the heater that can interfere with natural convection.
– It is not recommended to place highly heat-sensitive equipment above the heater.
– When installing multiple heaters, it is recommended to use a parallel connection.
– The heaters are recommended to be installed vertically.

Heater power selection

The choice of the power of the heater is made according to the formula:

$P = S \cdot k \cdot (T_{req.\ min} - T_{amb.\ min}) - P_{tot.}$,

where:

S is the estimated surface area of the heated cabinet, m^2.

The surface area of the heated cabinet depends on the installation scheme; different formulas apply for different options:

Cabinet location	Formula for calculating S, m^2
Freestanding cabinet, free access	$S = 1{,}8 \cdot H \cdot (W+D) + 1{,}4 \cdot W \cdot D$
Freestanding cabinet against the wall	$S = 1{,}4 \cdot W \cdot (H+D) + 1{,}8 \cdot H \cdot D$
The cabinet is at the end of the row, free access	$S = 1{,}4 \cdot D \cdot (H+W) + 1{,}8 \cdot H \cdot D$
The cabinet is at the end of the row near the wall	$S = 1{,}4 \cdot H \cdot (D+W) + 1{,}4 \cdot D \cdot W$
The enclosure is in the middle of the row, free access	$S = 1{,}8 \cdot H \cdot W + 1{,}4 \cdot D \cdot W + D \cdot H$
The cabinet is in the middle of the row near the wall	$S = 1{,}4 \cdot W \cdot (H+D) + D \cdot H$
The cabinet is in the middle of the row near the wall, with a visor	$S = 1{,}4 \cdot W \cdot H + 0{,}7 \cdot D \cdot W + D \cdot H$

B – cabinet height, m; W – cabinet width, m; D – cabinet depth, m.

Note: the choice of heaters is made in such a way that the power of the heater (the total power of several heaters) is higher than the calculated value.

Recommendation: when installing the cabinet in an open space, it is necessary to use a heater with a capacity of twice the calculated one.

k is the heat transfer coefficient ($W/K \cdot m^2$), depending on the material of the shell from which the cabinet is made. The reference values of this coefficient for various materials are shown in the table below.

$P_{gen.}$ is the heat power (W), total released by the equipment installed inside the cabinet (active and passive equipment: microprocessor technology, semiconductor technology, automatic devices, contactors and other electrical devices, as well as wires through which electric current flows).

$T_{req.\ min} - T_{amb.\ min}$ – temperature difference (°C) between the minimum required temperature inside the cabinet **$T_{req.\ min}$** and minimum ambient temperature around the cabinet **$T_{amb.\ min}$**.

Cabinet material	Heat transfer coefficient, $W/K \cdot m^2$
Painted sheet steel	5.5
Stainless steel sheet	4.5
Aluminum	12
Double aluminum	4.5
Polycarbonate, polyester	3.5

IEK

Fans

Filtered fans are designed for air cooling of active equipment inside electrical cabinets. The airflow they generate prevents hot areas from forming and protects electrical components from overheating to keep installed equipment running smoothly.

Advantages

- Progressive air supply system combined with low noise level.
- High resistance to atmospheric and temperature influences, as well as to UV radiation.
- Compactness and aesthetics with a small installation depth.
- The optimal and efficient solution for cooling cabinets while maintaining cost efficiency.
- Functional design with easy maintenance and installation.
- Optimum throughput of the filter material.
- Easy to change filter media without the use of tools.

Specifications

Installation type	flush-mounting
Enclosure material:	
fan	aluminum
filter	ABS plastic UL94 V0 (self-extinguishing)
Operating voltage	AC 230 V (50 Hz)
Degree of protection	IP55*
Filter class	G4
Protection class	I (protective conductor)
Filtration degree	94%
Operating temperature	10 to 70°C
Storage temperature	40 to 70°C
Operating / storage humidity	Max. 90% (non-condensing)
Enclosure color	Gray RAL 7035
Service life, not less than hours	50 000 at +25°C
Climatic modification	N2.1
Cross-section of the connected conductor, mm^2	0.5-1.5 multi-core wire (with ferrule) 0.5-2.5 rigid wire

* – The degree of protection is ensured after installing a fan with a filter in an electrical or telecommunication cabinet.

Design features

The protective grill of increased functionality provides reliable protection against the ingress of vertically falling water drops and dust, and reduces the intensity of contamination of the filter material.
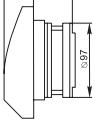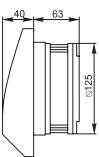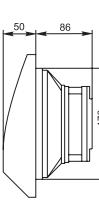

The direction of the cooling air can be easily changed by turning the fan over.

Effective prevention of water and dust from entering the interior of the cabinet due to the polyurethane sealant.

Assortment

	Name	Air supply at free discharge, m³/h	Air supply with exhaust filter, m³/h	Consumed power, W	Consumed current, mA	Noise level, dB	Mounting opening, mm	Size for mount. holes, mm	Weight, kg	Article
	Filter fan 21 m³/h IP55	21	16	13	80	31	97	109	0.6	YCE-FF-021-55
	Filter fan 55m³/h IP55	55	42	15	100	40	125	137	1.0	YCE-FF-055-55
	Filter fan 102m³/h IP55	102	68	15	100	39	176	188	1.3	YCE-FF-102-55

	Dimensions	Name	Mounting opening A, mm	Mounting depth, mm	Mounting opening, mm	Weight, kg	Article
		Filter with a protective case 97×97mm for a fan 21 m³/h	109	16	97	0.3	YCE-EF-021-55
		Filter with a protective case 125×125mm for a fan 55 m³/h	137	16	125	0,4	YCE-EF-055-55
		Filter with a protective case 176×176 mm for a fan 102 m3/h	188	16	176	0.67	YCE-EF-102-55

Installation Recommendations

– When installing a fan for forced ventilation, an exhaust filter must be used to remove the forced air from the cabinet.
– It is recommended to install the fans in such a way that cold air is blown into the bottom of the cabinet and passes through the outlet filter at the top, thereby promoting natural convection flow.
– When installing a filter outlet grill with filter material, the actual performance of the fan decreases. The decrease in air flow can be partially compensated by installing an exhaust filter of a larger size range than the fan.

Calculating the required fan airflow

The required air flow of the fan is calculated using the formula:

$$V = f \cdot P_{tot.}/(T_{req.\ max} - T_{amb.\ max}),\ (m^3/h),$$

where:

f is the coefficient of the height of the terrain above sea level. The reference values of the coefficient are shown in the table below;

$P_{gen.}$ is the heat power (W), total released by the equipment installed inside the cabinet (active and passive equipment: microprocessor technology, semiconductor technology, automatic devices, contactors and other electrical devices, as well as wires through which electric current flows).

$T_{req.\ max} - T_{amb.\ max}$ – temperature difference (°C) between the maximum required temperature inside the cabinet $T_{req.\ max}$ and maximum ambient temperature around the cabinet $T_{amb.\ max.}$

The minimum required temperature inside the cabinet is set as the maximum value between the dew point temperature of the area and the minimum operating temperature of the installed equipment.

Height Factor Reference Values

Height above sea level, m	f, $m^3 \cdot K/W \cdot h$
0–100	3.1
100–250	3.2
250–500	3.3
500–750	3.4
750–1000	3.5

Note: the choice of heaters is made in such a way that the power of the heater (the total power of several heaters) is higher than the calculated value.

Recommendation: when installing the cabinet in an open space, it is necessary to use a heater with a capacity of twice the calculated one.

Control devices

Thermostats and hygrostats are designed to control fans and heaters, they are paired with a heater (NC) or fan (NO).

A thermostat with a normally closed NC contact is used to regulate the heater and cut off the load current when the temperature rises above the set value.

A thermostat with a normally open NO contact is used to turn on cooling devices (fans), as well as signaling devices and sensors when the temperature rises above the set value.

Dual circuit thermostats are used for independent control circuits.

The hygrostat is used to turn on the heater when the humidity exceeds the set value.

Advantages

- Wide range of temperature and humidity control with low error.
- Easy to install and configure.
- High switching capacity.
- Significant resource of work.
- Wide product range.

Specifications

Installation type	DIN rail
Sensing element:	
thermostat	thermobimetallic plate
hygrostat	polyamide fibers
Contact type	snap contact
Enclosure material	polyamide 66 UL94 V0, self-extinguishing
Enclosure color	Gray RAL 7035
Operating voltage, V	AC 230 (50 Hz)
Protection class	II
Clamp tightening torque, N·m	0.5
Storage / operating temperature, ° C	from −60 to +60
Hygrostat operating temperature, ° C	from 0 to +60
Operating / storage humidity	Max. 90% non-condensing
Service life not less, years	100,000 − thermostats, 50,000 − hygrostat
Climatic modification	N2.1
Degree of protection	IP20
Cross-section of the connected conductor, mm^2	0.5-1.5 multi-core wire (with ferrule) 0.5-2.5 rigid wire

Distribution cabinet accessories

Assortment

	Name	Setting range	Hysteresis (switching temperature difference)	Max. starting current, A (10 s)	Max. switching capacity *	Weight, kg	Article
	Thermostat from 0 to +60°C NO	0 to 60°C	7 ± 4K	16	AC: 240 V, 10 (2) A AC: 120 V, 15 (2) A DC: 30W (at 24-72V)	0.05	YCE-TNO-00-60
	Thermostat from 0 to +60°C NC	0 to 60°C	7 ± 4K	16			YCE-TNC-00-60
	Two-channel thermostat from 0 to +60°C NO+NC	0 to 60°C	7 ± 4K	16		0.09	YCE-DTNO-NC-60
	Two-channel thermostat from 0 to +60°C NO+NO	0 to 60°C	7 ± 4K	16	AC: 240 V, 10 (2) A AC: 120 V, 15 (2) A DC: 30W (at 24-72V)	0.09	YCE-DTNO-NO-60
	Mechanical hygrostat 35 to 95% RH	35–95% RH	4 ± 3% RH	16	AC: 250 V, 5 A DC: 20W	0.06	YCE-MH-35-95

Installation Recommendations

– It is recommended to install the NC thermostat in the lower part of the cabinet (the area of the lowest temperature).
– It is recommended to install the NO thermostat in the upper part of the cabinet (the area of the highest temperature).

Distribution cabinet accessories

* The switching capacity in a circuit with an inductive load is indicated in brackets, without brackets – in a circuit with a resistive load.

IEK GROUP

HEAD OFFICE
RUSSIA, 108803, Moscow,
Warsaw highway, 28th km, estate 3
Tel.: +7 (495) 542-2222, 542-2223
Fax: +7 (495) 542-2220
info@iek.ru
www.iek.group, www.iek.ru

DEALERSHIP IN BELARUS
BELARUS, 220025, Minsk,
Shafarnyanskaya str., 11, premises 62;
Tel.: +375 (44) 555-8-550, +375 (17) 286-3-629
iek.by@iek.ru
www.iek.group, www.iek.ru

PARTNER NETWORK ABROAD

OFFICE IN KAZAKHSTAN
KAZAKHSTAN, 040916,
Almaty region, Karasai district,
Irgeli, micro-district Akzhol, 71A
Tel.: +7 (727) 237-9249, 237-9250
infokz@iek.ru
www.iek.group, www.iek.kz

EUROPE
LATVIA
SIA "IEK NORTHERN EUROPE"
Maskavas iela 497, Rumbula, Stopiņu pagasts,
Ropažu novads, LV-2121, Latvija
Tel.: +371 672-05-159
infoneu@iek.group
www.iek.group, www.iek.global

OFFICE IN UZBEKISTAN
UZBEKISTAN, 100076, Tashkent,
Yashnabad district,
Mukhtar Ashrafiy str., 1st lane, 9a
Tel.: +998 (71) 231-84-31, +998 (71) 231-84-32
info@iek.uz
www.iek.group, www.iek.uz

OFFICE IN MOLDOVA
MOLDOVA, MD-2044, Chisinau,
Maria Dragan str., house 21
Tel.: +373 (22) 479-065, 479-066
Fax: +373 (22) 479-067
info@iek.md; infomd@md.iek.ru
www.iek.group, www.iek.md

OFFICE IN MONGOLIA
MONGOLIA, Ulan Bator,
20th section of Bayangol district,
Western zone of the industrial area 16100,
Moskovskaya street, 9
Tel.: +976 11-344-801, fax: +976 11-344-221
info@iek.mn
www.iek.group, www.iek.mn

SOUTH EAST ASIA
VIETNAM
IEK SOUTH EAST ASIA
Room 23, 2nd Floor, Hado Airport Building, No. 2 Hong
Ha Street, Ward 2, Tan Binh District, Ho Chi Minh City,
Vietnam
infosea@iek.group
www.iek.group www.iek.global

www.iek.global

Our partner in your area