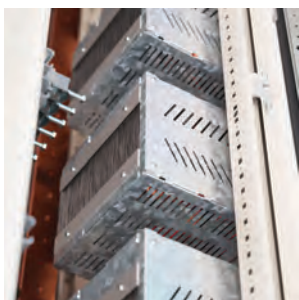




## Product catalog

Solutions for power  
distribution systems  
"RAM power"



- Main parts of enclosure
- Functional units
- Separation elements

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## Additional references

DKC has issued a wide range of technical publications available both in printed and electronic form.

To order them in printed form, please contact any regional representative office of DKC. The list of representative offices can be found at the DKC website in the section "About company".

All the provided information can also be downloaded from the Company website: [www.dkc.ru](http://www.dkc.ru)



Catalog  
of cable support systems



Catalog  
of solutions for automation and IT



Catalog  
of busbars and transformers



Fire-resistant  
cable lines



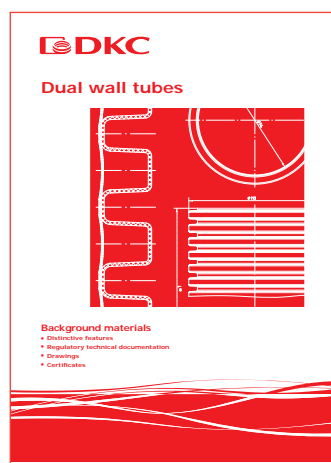
Collection of instructions for  
installation of cable ducts



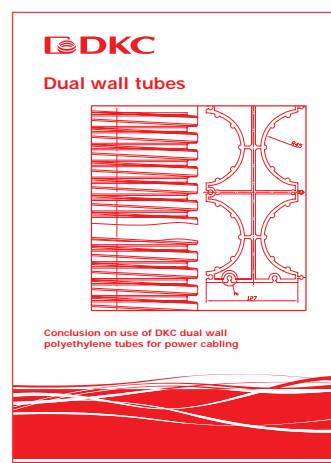
Zinc lamellar coating



Solutions for monolithic  
construction

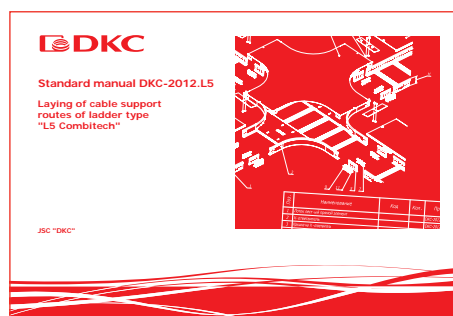


Dual wall tubes  
Background materials

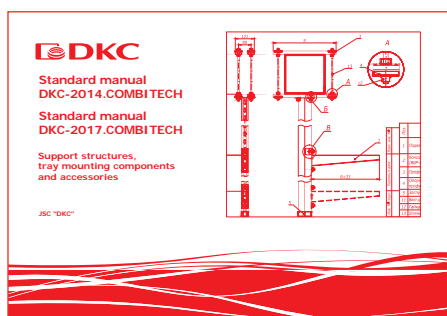


Conclusion  
on use of DKC dual wall  
polyethylene tubes for power  
cabling

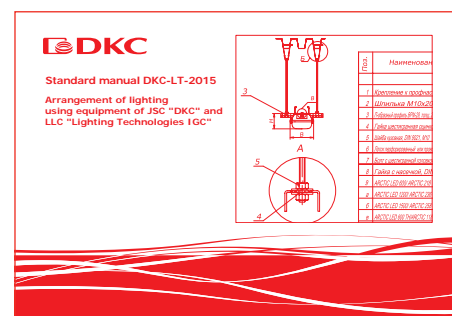
## Additional references



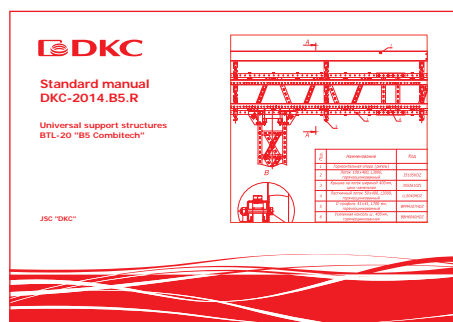
Standard manual DKC-2012.L5  
Laying of cable support routes  
of ladder type "L5 Combitech"



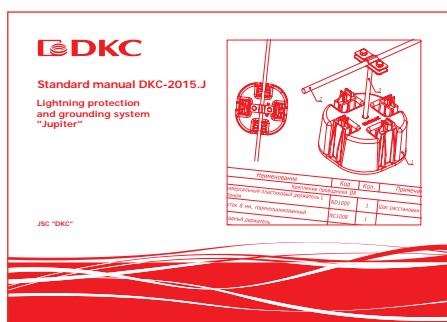
Standard manual DKC-2014.COMBITECH  
Standard manual DKC-2017.COMBITECH  
Support structures, tray mounting components  
and accessories



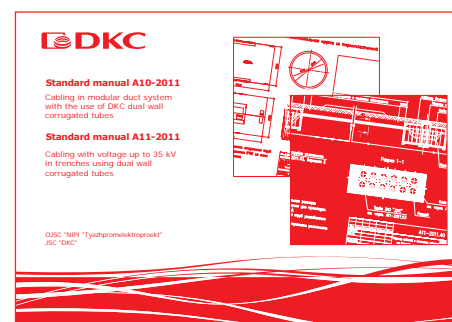
Standard manual DKC-LT-2015  
Arrangement of lighting  
using equipment of DKC and Lighting  
Technologies



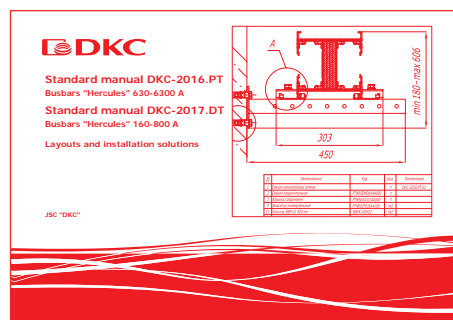
Standard manual DKC-2014.B5.R  
Universal support structures BTL-20  
"B5 Combitech"



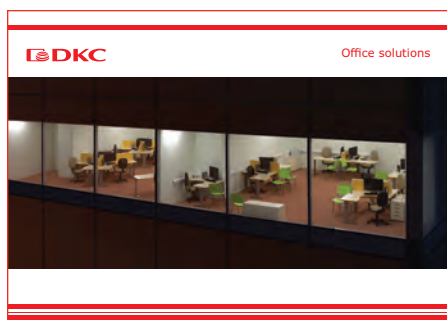
Standard manual DKC-2015.J  
System of lightning protection  
and grounding "Jupiter"



Standard manual A10-2011  
Cabling in modular duct system with the use  
of DKC dual wall corrugated tubes  
Standard manual A11-2011  
Cabling with voltage up to 35 kV  
in trenches using dual wall  
corrugated tubes



Standard manual DKC-2016.PT  
Busbars "Hercules" 630-6300 A  
Standard manual DKC-2017.DT  
Busbars "Hercules" 160-800 A  
Layouts and installation  
solutions



Office solutions



Storage solutions



Supermarket solutions



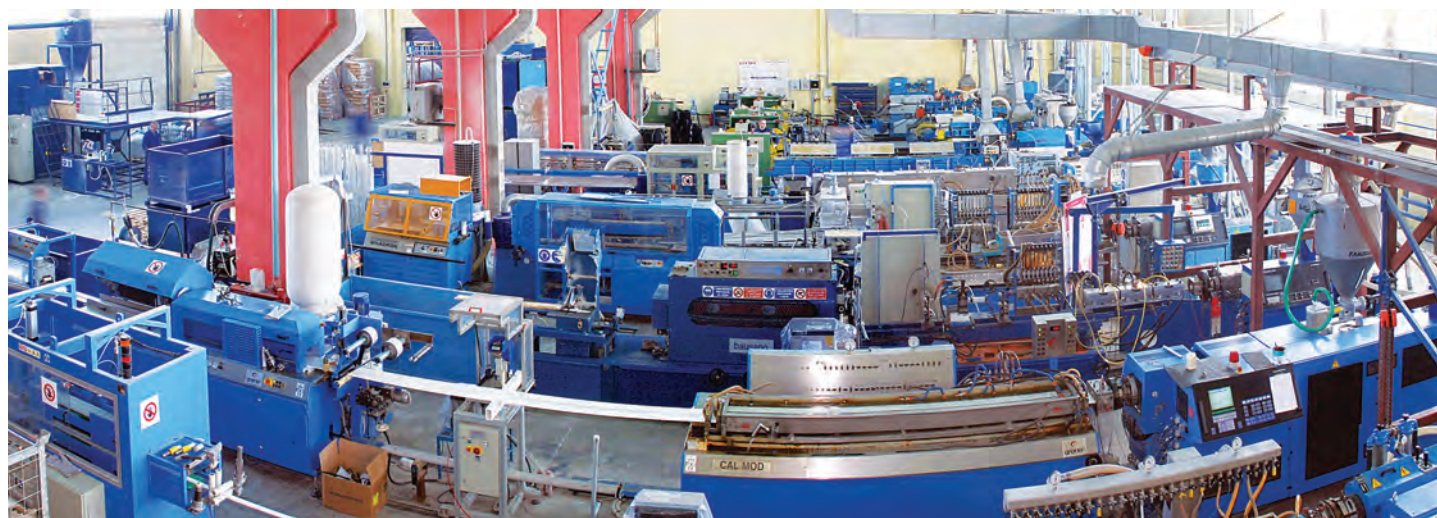
Ground parking solutions



Industrial solutions



## About DKC



**DKC, an international company established in August 1998, has gained a strong leading position on the global electrotechnical market. Rapidly developing its production and introducing new high performance technologies, DKC today is among the largest manufacturers of cable support systems and low-voltage equipment in Russia and Europe.**

The aim of DKC is to provide the latest industry solutions and high-quality products to the global electrotechnical market. Over the past few years DKC has made great progress and is constantly striving for new achievements.

### Assortment

At the moment DKC product range involves more than 30,000 components and accessories combined into several basic groups: cable ducts, metal and plastic tubes, metal and plastic trays, low-voltage equipment, air conditioning systems, busbars, lightning protection and grounding. Due to active research works and development of new materials and products DKC has managed to collect an impressive list of its own patents that would enable the Company to maintain the status of an innovative manufacturer.

### Coverage

At the moment manufacturing and warehousing complexes of DKC are located in Russia, Ukraine, Italy, Hungary and Romania. Regional representative offices of the Company operate in Russia, CIS countries and abroad. Products are being delivered to Latin America, West and Central Africa.

### Sales strategy

DKC cooperates with an extensive network of distributors, thus not performing direct sales to end users. The balanced sales policy of the Company allows ensuring continuous presence of products on the market and adjusting the price level in a timely manner.

### Partner support

The Company carries out seminars and technical consultations for its distributors and their clients on a regular basis. Each partner is treated with an individual approach, and obtains marketing support from the Company.

### Quality

Certification of the quality management system (QMS) for conformity with the international standard ISO 9001 successfully held by DKC on a regular basis reflects commitment to the high standards and continuous improvement of management and production processes. DKC products are considered to be the baseline of quality for the whole industry.

### Social targeting

DKC is firmly convinced that the key aspect of development of the Company is active involvement in life of its employees and electrotechnical industry at large. The Company launches new projects for higher education institutions, supports talented young specialists, and takes an active part in improvement of mounting education.

### Industry solutions

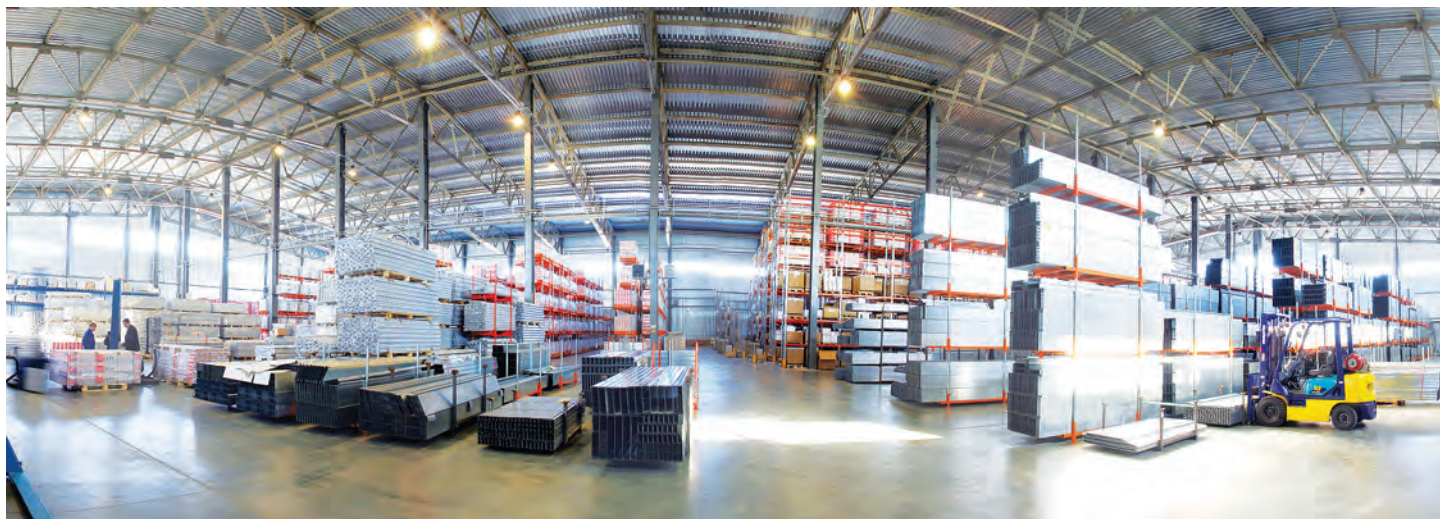
DKC employs its own engineering service which provides support to partners during design of fuse boxes according to single-line diagrams and development of complex solutions for special (non-standard) low-voltage switchgear (LVS).

Company specialists have gained considerable experience of industry solutions in the oil and gas sector, telecommunications, infrastructure projects, and many other areas. DKC has developed the special "Electronic directory of standard solutions" for "RAM block" enclosures intended specifically for design institutes, energy management departments of industrial enterprises, and engineering departments of companies manufacturing electric control room equipment. The basic advantage of this directory is the possibility to obtain the whole package of documents, including equipment specification and 2D drawings in dwg format, as well as compatibility of solutions with power and active equipment of any manufacturer that is present on the Russian market. Use of this directory allows reducing the development time of projects on power supply to industrial and civil facilities to a significant degree.

### Projects

DKC products were given preference in supplies to many important facilities, such as: Vostochny Cosmodrome, Kazachya Compressor Station of the South Stream Pipeline, Alabyano-Baltiysky Tunnel, Mikheevsky Mining and Processing Plant, Achinsk Refinery of Rosneft, Olympic facilities in Sochi, Moscow Metro, State Academic Bolshoi Theatre, Rocket Plant of Concern PVO "Almaz-Antey", Terminal 1A of Kazan International Airport, bridge to the Russky Island, and Bushehr NPP.

### Advantages of working with DKC



#### For distributors

##### Financial gains

High profit from sales of DKC products

High brand recognition

Absence of dumping due to strict control of DKC over compliance with the established discount range

Advantageous financial and credit conditions of a distributor contract

##### Logistics and warehousing

Information on warehouse state updated daily

Fast and free delivery of DKC products throughout the Russian Federation to any regional distributor's warehouse

Detailed planning of production and shipping schedule

Individual retail packaging for "Quadro" system

All elements of CQE enclosures of "RAM block" group are supplied in disassembled state to reduce costs for transportation and storage

##### Service

System of online orders of DKC products

Possibility to buy a wide range of high-quality low-voltage equipment at one place

Original marking of all products for automation of warehouse accounting

Publication of information on a distributor and all its retail outlets at the DKC website

##### Marketing

Financial support of regional marketing programs

Free provision of demonstration stands, specimens of finished products, printed catalogs and advertising materials

System of online training at the DKC website

##### Support

Involvement of DKC specialists to carry out seminars and presentations for clients

Program of annual trainings throughout Russia

Provision of engineering support during design of complex facilities

Constantly updated regulatory technical documentation on all products

#### For designers

Compatibility of low-voltage equipment with other series of DKC products (metal trays, cable ducts, tubes, etc.)

Versatile modular structure of enclosures is compatible with active and power equipment of the leading European manufacturers

Annually updated and full product catalog with indication of technical data of products and accessories, as well as detail drawings

Technical support in terms of the entire variety of products by phone or via DKC website

Possibility to design fuse boxes on the basis of "RAM block" enclosure range according to single-line diagrams

Possibility to develop solutions for specialized (non-standard) LVS

Training by DKC leading technical specialists

Free access to necessary 2D and 3D drawings of products compatible with the most common design programs

Regularly updated and full product catalog

Consultations and assistance in complex design solutions

#### For end users

High quality of products

Optimal delivery periods of ordered products

Wide network of authorized partner assemblers of low-voltage switchgear throughout Russia

Availability of all necessary certificates and test reports

Detailed instructions for assembly and installation of products

Professional installation

Possibility to perform technical training on equipment installation and operation

Full scope of DKC low-voltage equipment meets the highest requirements to installation and operation conditions



## Engineering Solutions Division of DKC

The Engineering Solutions Division of DKC consists of four departments: technical support department, two design departments and service department.

The basic center of cooperation with clients is the **Technical Support Department** responsible for receipt, processing and calculation of necessary specifications in accordance with customers' requests, as well as for performance of technical consultations of clients in respect of selection and installation of DKC products.

If there is a need in technical consultations on application of DKC products, please feel free to contact employees of the Technical Support Department located in the nearest city or region, or by phone 8-800-250-52-63.

The list of addresses is available at the Company website [www.dkc.ru](http://www.dkc.ru) in the section "Support".

**Design departments** are responsible for comprehensive implementation of projects with introduction of DKC products, and solve the following tasks:

- exploratory design and development of the concept for integration of DKC products into a designed facility;
- coordination of necessary project components with a design organization in accordance with a customer's technical assignment;
- independent design using DKC products for further introduction into a project facility according to an available self-regulatory organization (SRO) admission.

Activities of the **Service Department** are aimed at:

- performance of necessary measurements and consultations in the course of facility exploratory design;
- technical support of design departments during design;
- organizational and technical management of product supply according to a project and installation monitoring (designer supervision, installation supervision);
- facility construction monitoring for necessary project adjustment (amendment and correction of specifications), coordination of changes in supplied products before shipment thereof;
- post-warranty support of a facility or customer in respect of operation of DKC installed products.

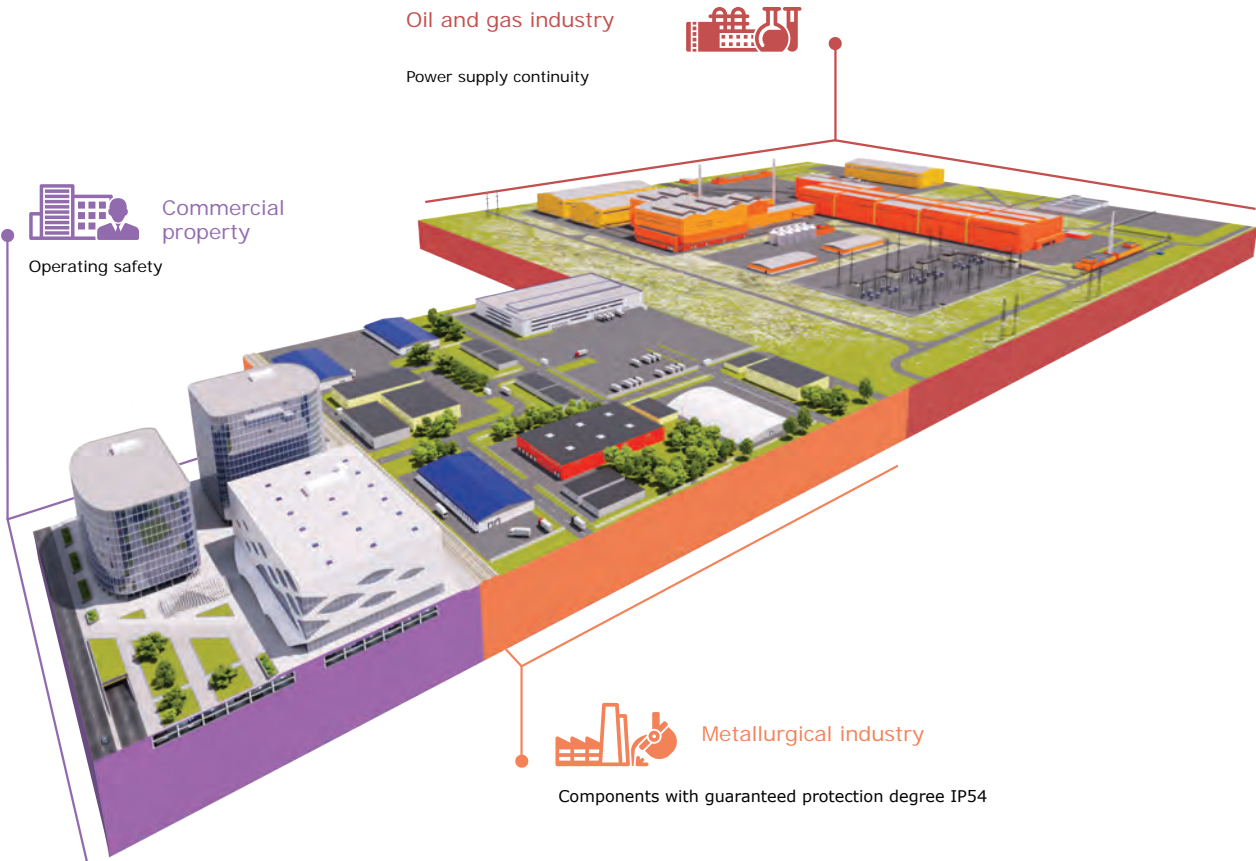
DKC provides in-depth technical support to its partners and clients, and specialists of the Engineering Solutions Division are always ready to assist in resolution of any problem.



System overview

Longstanding experience of DKC company specialists in the field of arrangement of power distribution systems, as well as application of advanced technology in the course of design and production made it possible to create a new, innovative system "RAM power" designed for building low-voltage switchgear (LVS) for currents of up to 6300 A in the field of construction and industry.

Application



Advantages

- Possibility to select complete functional units for installation of the majority of series of circuit breakers (3VT, 3WL/3WT, Compact NS/NSX, Masterpact NW/NT, Tmax XT, T, Emax E);
- Building of LVS on the basis of the "RAM power" system conforms to new GOST IEC 61439 standard;
- High cost-effectiveness due to the possibility to use circuit breakers from several leading manufacturers at once;
- Pre-perforation of functional units significantly reduces time for human processing of mounting and front panels;
- Safety of maintenance personnel and prevention of electric arc spreading are achieved by organization of inner separation up to degree of 4b;
- "RAM power" system elements are produced in Russia, and they have been designed with due account for requirements imposed by the inner market;
- Modularity of the "RAM power" system makes it possible to easily improve LVS by modification or addition of functional units.

Basic characteristics

Conformity to standards	GOST IEC 61439
Rated operating voltage, Ue	690 VAC
Rated insulation voltage, Ui	1000 VAC
Rated frequency, f	50–60 Hz
Rated current, In	6300 A
Rated short-time withstand short-circuit current Icw	100 kA
Protection degree	IP54, IK10
Separation degree	up to 4b
Effective load	up to 1,000 kg
Side	1800, 2000, 2200 mm
Width	300, 400, 600, 800, and 1000 mm
Depth	400, 600, 800 mm



## System composition

When developing the enclosure for the "RAM power" system, DKC engineers took into account all possible climatic and operating conditions at construction and industrial facilities. The outcome of work of specialists was a dismantlable structure consisting of two key elements: roof-base kit and uprights kit. This design has proved effective in respect of storage and transportation. A variety of standard sizes provide the possibility to create up to 45 configurations, not including the possibility of buying.



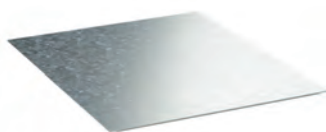
**Wide range of components**  
The standard solid panel may be replaced by the perforated panel which depends on a type of power input into the enclosure

**High enclosure rigidity**  
Panels and enclosure door are made of sheet steel with thickness up to 2 mm and have powder polyester paint with thickness of 60 to 100 µm. Palette color is RAL 7035\*

**Resistance to impact loads and moisture**  
The enclosure has the dust and moisture protection degree IP55. Shock resistance degree IK10

**High capacity**  
Enclosure height may reach 2200 mm, not including a plinth, which will allow increasing the number of functional units

**High load bearing capacity**  
The enclosure frame consists of two basic elements: roof-base kit and uprights kit. Structure load bearing capacity comprises 1000 kg



**Wide range of components**  
A three-section cable gland which may be replaced by a blank bottom is installed in the enclosure bottom

\* – non-standard paint design of RAL palette is possible

## Selection table



Enclosure dimensions, mm			Codes of basic elements					Codes of additional elements			
width	depth	height	roof-base	uprights	blank door	rear panel	enclosure kit*	side panels	plinth 100 mm		
300	400	1800	R5KTB34	R5KMN18	R5CPE1830	R5CRE1830	R5CQE1834	R5LE1842	R5BP01	R5FP30	R5FP40
		2000		R5KMN20	R5CPE2030	R5CRE2030	R5CQE2034	R5LE2042			
		2200		R5KMN22	R5CPE2230	R5CRE2230	R5CQE2234	R5LE2242			
	600	1800	R5KTB36	R5KMN18	R5CPE1830	R5CRE1830	R5CQE1836	R5LE1862	R5BP01	R5FP30	R5FP60
		2000		R5KMN20	R5CPE2030	R5CRE2030	R5CQE2036	R5LE2062			
		2200		R5KMN22	R5CPE2230	R5CRE2230	R5CQE2236	R5LE2262			
	800	1800	R5KTB38	R5KMN18	R5CPE1830	R5CRE1830	R5CQE1838	R5LE1882	R5BP01	R5FP30	R5FP80
		2000		R5KMN20	R5CPE2030	R5CRE2030	R5CQE2038	R5LE2082			
		2200		R5KMN22	R5CPE2230	R5CRE2230	R5CQE2238	R5LE2282			
400	400	1800	R5KTB44	R5KMN18	R5CPE1840	R5CRE1840	R5CQE1844	R5LE1842	R5BP01	R5FP40	R5FP40
		2000		R5KMN20	R5CPE2040	R5CRE2040	R5CQE2044	R5LE2042			
		2200		R5KMN22	R5CPE2240	R5CRE2240	R5CQE2244	R5LE2242			
	600	1800	R5KTB46	R5KMN18	R5CPE1840	R5CRE1840	R5CQE1846	R5LE1862	R5BP01	R5FP40	R5FP60
		2000		R5KMN20	R5CPE2040	R5CRE2040	R5CQE2046	R5LE2062			
		2200		R5KMN22	R5CPE2240	R5CRE2240	R5CQE2246	R5LE2262			
	800	1800	R5KTB48	R5KMN18	R5CPE1840	R5CRE1840	R5CQE1848	R5LE1882	R5BP01	R5FP40	R5FP80
		2000		R5KMN20	R5CPE2040	R5CRE2040	R5CQE2048	R5LE2082			
		2200		R5KMN22	R5CPE2240	R5CRE2240	R5CQE2248	R5LE2282			
600	400	1800	R5KTB64	R5KMN18	R5CPE1860	R5CRE1860	R5CQE1864	R5LE1842	R5BP01	R5FP60	R5FP40
		2000		R5KMN20	R5CPE2060	R5CRE2060	R5CQE2064	R5LE2042			
		2200		R5KMN22	R5CPE2260	R5CRE2260	R5CQE2264	R5LE2242			
	600	1800	R5KTB66	R5KMN18	R5CPE1860	R5CRE1860	R5CQE1866	R5LE1862	R5BP01	R5FP60	R5FP60
		2000		R5KMN20	R5CPE2060	R5CRE2060	R5CQE2066	R5LE2062			
		2200		R5KMN22	R5CPE2260	R5CRE2260	R5CQE2266	R5LE2262			
	800	1800	R5KTB68	R5KMN18	R5CPE1860	R5CRE1860	R5CQE1868	R5LE1882	R5BP01	R5FP60	R5FP80
		2000		R5KMN20	R5CPE2060	R5CRE2060	R5CQE2068	R5LE2082			
		2200		R5KMN22	R5CPE2260	R5CRE2260	R5CQE2268	R5LE2282			
800	400	1800	R5KTB84	R5KMN18	R5CPE1880	R5CRE1880	R5CQE1884	R5LE1842	R5BP01	R5FP80	R5FP40
		2000		R5KMN20	R5CPE2080	R5CRE2080	R5CQE2084	R5LE2042			
		2200		R5KMN22	R5CPE2280	R5CRE2280	R5CQE2284	R5LE2242			
	600	1800	R5KTB86	R5KMN18	R5CPE1880	R5CRE1880	R5CQE1886	R5LE1862	R5BP01	R5FP80	R5FP60
		2000		R5KMN20	R5CPE2080	R5CRE2080	R5CQE2086	R5LE2062			
		2200		R5KMN22	R5CPE2280	R5CRE2280	R5CQE2286	R5LE2262			
	800	1800	R5KTB88	R5KMN18	R5CPE1880	R5CRE1880	R5CQE1888	R5LE1882	R5BP01	R5FP80	R5FP80
		2000		R5KMN20	R5CPE2080	R5CRE2080	R5CQE2088	R5LE2082			
		2200		R5KMN22	R5CPE2280	R5CRE2280	R5CQE2288	R5LE2282			
1000	400	1800	R5KTB104	R5KMN18	R5CPE18100	R5CRE18100	R5CQE18104	R5LE1842	R5BP01	R5FP100	R5FP40
		2000		R5KMN20	R5CPE20100	R5CRE20100	R5CQE20104	R5LE2042			
		2200		R5KMN22	R5CPE22100	R5CRE22100	R5CQE22104	R5LE2242			
	600	1800	R5KTB106	R5KMN18	R5CPE18100	R5CRE18100	R5CQE18106	R5LE1862	R5BP01	R5FP100	R5FP60
		2000		R5KMN20	R5CPE20100	R5CRE20100	R5CQE20106	R5LE2062			
		2200		R5KMN22	R5CPE22100	R5CRE22100	R5CQE22106	R5LE2262			
	800	1800	R5KTB108	R5KMN18	R5CPE18100	R5CRE18100	R5CQE18108	R5LE1882	R5BP01	R5FP100	R5FP80
		2000		R5KMN20	R5CPE20100	R5CRE20100	R5CQE20108	R5LE2082			
		2200		R5KMN22	R5CPE22100	R5CRE22100	R5CQE22108	R5LE2282			

Main parts of enclosure

Uprights kit



- Material:**
- steel with thickness of 1.5 mm, RAL 7035 powder coating.
- Distinctive features:**
- profile structure has 6 reinforcing ribs which provide high strength and load bearing capacity of uprights (up to 700 kg for the enclosure and 1000 kg for the enclosure assembly);
  - universal perforation of uprights with pitch of 25 mm.
- Scope of supply:**
- 4 uprights.

Enclosure height, mm	Code
1800	R5KMN18
2000	R5KMN20
2200	R5KMN22

Roof and base kit



- Material:**
- steel with thickness of 1.5 mm, RAL 7011 powder coating.
- Scope of supply:**
- base, roof, mounting accessories, elements for arrangement of cable entry, double-bit key.

Enclosure dimensions, mm		Code
width	depth	
300	400	R5KTB34
	600	R5KTB36
	800	R5KTB38
400	400	R5KTB44
	600	R5KTB46
	800	R5KTB48
600	400	R5KTB64
	600	R5KTB66
	800	R5KTB68
800	400	R5KTB84
	600	R5KTB86
	800	R5KTB88
1000	400	R5KTB104
	600	R5KTB106
	800	R5KTB108

## Perforated top lid for FL21 flanges


**Material:**

- steel with thickness of 1.5 mm, RAL 7011 powder coating.

**Distinctive features:**

- installed instead of a standard solid top lid.

**Scope of supply:**

- panel.

Enclosure dimensions, mm		Number of holes, pcs	Code
width	depth		
400	400	1	R5KTFL44
	600	2	R5KTFL46
	800	3	R5KTFL48
600	400	2	R5KTFL64
	600	4	R5KTFL66
	800	6	R5KTFL68
800	400	3	R5KTFL84
	600	6	R5KTFL86
	800	9	R5KTFL88
1000	400	4	R5KTFL104
	600	8	R5KTFL106
	800	12	R5KTFL108

## Identification plate for enclosure


**Material:**

- steel with thickness of 1.2 mm, RAL 7011 powder coating.

**Distinctive features:**

- identification plate height is 100 mm.

**Scope of supply:**

- identification plate.

Enclosure width, mm	Code
400	R5KTS40
600	R5KTS60
800	R5KTS80
1000	R5KTS100



## FL21 flanges


**Purpose:**

- for arrangement of cable entry.

**Material:**

- thermoplastic elastomer.

**Color:**

- white.

**Distinctive features:**

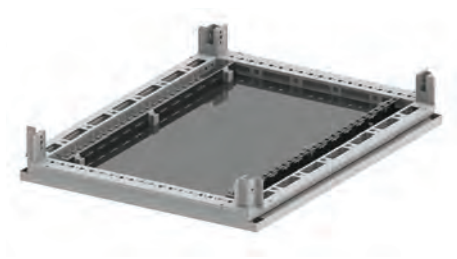
- fire resistance V0 according to UL94;
- dust and moisture protection degree is up to IP65;
- wide range of operating temperatures is from -40 to +130 °C;
- does not contain halogens;
- resistant to oil products.

**Scope of supply:**

- cable gland, mounting accessories.

Type	Total number of glands	Diameter of holes, mm Q-ty, pcs	Protection degree	Code
FL21	6	24–54 mm, 2 pcs 30–59 mm, 1 pce 6–14 mm, 3 pcs	IP65	R5HTC03
	16	40 mm, 1 pce 20 mm, 15 pcs	IP54	R5HTC16
	25	20–26 mm (IP65) or 12–15 mm (IP55), 1 pce 8–14 mm (IP65) or 7–10 mm (IP55), 16 pcs 14–20 mm (IP65) or 5–10 mm (IP55), 4 pcs 5–7 mm (IP65), 4 pcs	IP55–IP65	R5HTC25
	35	17–32 mm, 1 pce 12–18 mm, 2 pcs 10–14 mm, 16 pcs 7–12 mm, 12 pcs 6–10 mm, 4 pcs	IP65	R5HTC35
	50	7–13 mm, 49 pcs 15–25 mm, 1 pce	IP65	R5HTC50
	36	4–8 mm, 4 pcs 6–10 mm, 4 pcs 7–12 mm, 12 pcs 10–14 mm, 14 pcs 12–18 mm, 2 pcs 17–32 mm, 1 pce	IP65	R5HTKC36

Blank bottom



- Purpose:**
- arrangement of cable entry and provision of the high IP protection degree.
- Material:**
- galvanized steel with thickness of 2 mm.
- Distinctive features:**
- has a seal on the plate perimeter ensuring the protection degree of up to IP65.
- Scope of supply:**
- bottom, mounting accessories.

Enclosure dimensions, mm		Code
width	depth	
300	400	R5FUC34
	600	R5FUC36
	800	R5FUC38
400	400	R5FUC44
	600	R5FUC46
	800	R5FUC48
600	400	R5FUC64
	600	R5FUC66
	800	R5FUC68
800	400	R5FUC84
	600	R5FUC86
	800	R5FUC88
1000	400	R5FUC104
	600	R5FUC106
	800	R5FUC108

## Advanced plinth

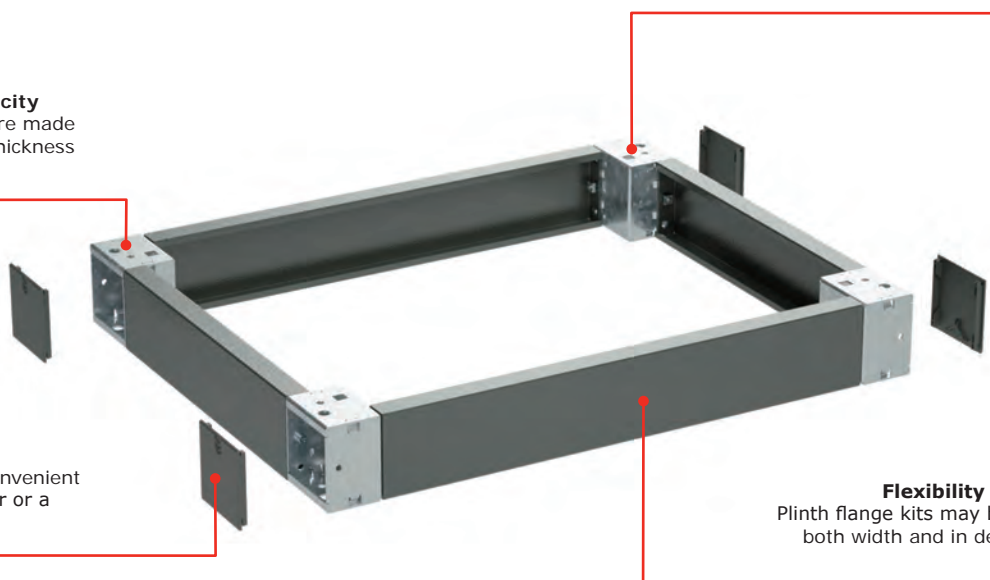
The "RAM power" power distribution system provides the possibility to create LVS configurations for currents of up to 6300 A, and thus all assembly elements shall have the load bearing capacity which would allow withstanding high static and dynamic loads. This served as one of the reasons for creation of a new plinth, the structure whereof has successfully undergone all required tests.

**High load bearing capacity**  
All-welded angle pieces are made of galvanized steel with thickness of 2.5 mm

**Reliable fastening**  
The plinth is mounting directly to the three-pole structure of the enclosure

**Ease of transportation**  
The plastic lids ensure convenient access for fixing to a floor or a transporting pallet

**Flexibility of flanges**  
Plinth flange kits may be installed both width and in depth on the enclosure



Plinth

Plinth angle pieces



- Purpose:**
- enclosure installation and arrangement of cable entry.
- Material:**
- steel with thickness of 2.5 mm, RAL 7011 powder coating.
- Distinctive features:**
- removable plastic lids for convenient fixation to a transporting pallet.
- Scope of supply:**
- 4 angle pieces together with plastic end covers, mounting accessories.

Description	Code
Kit of angle pieces with plastic lids, 4 pcs	R5BP01

Plinth flanges



- Purpose:**
- enclosure installation and arrangement of cable entry.
- Material:**
- steel with thickness of 1.2 mm, RAL 7011 powder coating.
- Distinctive features:**
- flange kit may be installed both width and in depth on the enclosure.
- Scope of supply:**
- 2 flanges, mounting accessories.

Enclosure width/depth, mm	Code
300	R5FP30
400	R5FP40
600	R5FP60
800	R5FP80
1000	R5FP100



Blank door



- Purpose:**
- restriction of access to equipment installed in the enclosure.
- Material:**
- steel with thickness of 2 mm, RAL 7035 powder coating.
- Distinctive features:**
- complete with an internal reinforcing frame;
  - door opening angle is 130°;
  - seal on the inside perimeter ensures the protection degree of up to IP65;
  - complete with a standard handle with a built-in lock;
  - lock for a key with a double bit is installed in the door;
  - all necessary elements for installation of doors in the enclosure are included into the scope of supply.
- Scope of supply:**
- door, lock, mounting accessories.

Enclosure dimensions, mm		Code
height	width	
1800	300	R5CPE1830
	400	R5CPE1840
	600	R5CPE1860
	800	R5CPE1880
	1000	R5CPE18100
2000	300	R5CPE2030
	400	R5CPE2040
	600	R5CPE2060
	800	R5CPE2080
	1000	R5CPE20100
2200	300	R5CPE2230
	400	R5CPE2240
	600	R5CPE2260
	800	R5CPE2280
	1000	R5CPE22100

Transparent door



- Purpose:**
- restriction of access to equipment installed in the enclosure.
- Material:**
- steel with thickness of 2 mm, RAL 7035 powder coating;
  - safety glass with thickness of 4 mm.
- Distinctive features:**
- has a seal on the inside perimeter ensuring the protection degree of up to IP65;
  - door opening angle is 130°;
  - complete with a standard handle with a built-in lock;
  - lock for a key with a double bit is installed in the door;
  - all necessary elements for installation of doors in the enclosure are included into the scope of supply.
- Scope of supply:**
- door, lock, mounting accessories.

Enclosure dimensions, mm		Code
height	width	
1800	600	R5CPTE1860
	800	R5CPTE1880
	1000	R5CPTE18100
2000	600	R5CPTE2060
	800	R5CPTE2080
	1000	R5CPTE20100
2200	600	R5CPTE2260
	800	R5CPTE2280
	1000	R5CPTE22100

Rear panel



- Purpose:**
- restriction of access to equipment installed in the enclosure.
- Material:**
- steel with thickness of 1.5 mm, RAL 7035 powder coating.
- Distinctive features:**
- has a seal on the inside perimeter ensuring the protection degree of up to IP65;
  - all necessary elements for installation of panels in the enclosure are included into the scope of supply.
- Scope of supply:**
- rear panel, mounting accessories.

Enclosure dimensions, mm		Code
height	width	
1800	300	R5CRE1830
	400	R5CRE1840
	600	R5CRE1860
	800	R5CRE1880
	1000	R5CRE18100
2000	300	R5CRE2030
	400	R5CRE2040
	600	R5CRE2060
	800	R5CRE2080
	1000	R5CRE20100
2200	300	R5CRE2230
	400	R5CRE2240
	600	R5CRE2260
	800	R5CRE2280
	1000	R5CRE22100

## Side panels


**Purpose:**

- restriction of access to equipment installed in the enclosure.

**Material:**

- steel with thickness of 1.5 mm, RAL 7035 powder coating.

**Distinctive features:**

- special seal on the inside perimeter ensuring the protection degree of up to IP65;
- all necessary elements for installation of panels in the enclosure are included into the scope of supply.

**Scope of supply:**

- two side panels, mounting accessories.

Enclosure dimensions, mm		Code
height	depth	
1800	400	R5LE1842
	600	R5LE1862
	800	R5LE1882
2000	400	R5LE2042
	600	R5LE2062
	800	R5LE2082
2200	400	R5LE2242
	600	R5LE2262
	800	R5LE2282

## Horizontal rails for door


**Purpose:**

- installation of equipment on the internal door surface.

**Material:**

- galvanized steel with thickness of 2 mm.

**Distinctive features:**

- installation is performed on the reinforcing door frame.

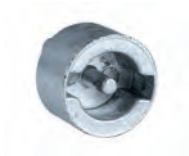
**Scope of supply:**

- 10 rails, mounting accessories.





Width, mm	Code
600	R5TPE60
800	R5TPE80
1000	R5TPE100



Inserts for handle



- Purpose:**
- unauthorized access protection.
- Material:**
- plastic/metal.
- Distinctive features:**
- key is ordered with an individual code.
- Scope of supply:**
- insert.

Inserts, keys	Description Dimension, mm		Material for insert/key	Code	
				key	insert
   	For a key with a double bit	3	metal/metal	R5CE230	R5CE219
		8		R5CE236	R5CE214
	For a triangle key	7	metal/metal	R5CE235	R5CE213
		–		R5CE237	R5CE262
	For a key of FIAT type	7	metal/metal	R5CE233	R5CE211
		8		R5CE234	R5CE212

Door opening limiter up to 90°



- Purpose:**
- door opening angle change.
- Material:**
- galvanized steel with thickness of 2 mm.
- Distinctive features:**
- maximum door opening angle when using the limiter comprises 90°.
- Scope of supply:**
- limiter, mounting accessories.

Width, mm	Code
For blank doors	R5AE02
For transparent doors	R5AE09

## Twist handle


**Purpose:**

- unauthorized access protection.

**Material:**

- plastic/metal.

**Distinctive features:**

- handle structure provides for availability of a protective shutter to prevent dust and moisture ingress into the lock mechanism;
- handle structure prevents spontaneous slipping of the lock mechanism under vibration loads. It is recommended to use the handle when operating enclosures in earthquake endangered areas (with application of a seismic kit, see page 83) or in areas with possible vibration loads.

**Scope of supply:**

- handle with a lock, key, mounting accessories.

Description	Code
Handle with an insert for a customized key	R5CE270
Handle with a push-button opening mechanism	R5CE402
Handle with a hole for sealing/attachment, insert for a key with a double bit of 3 mm	R5CE403
Handle with a hole for sealing/attachment with a lock, push-button opening mechanism	R5CE404

## Baying kit


**Purpose:**

- baying of enclosures with total weight of not more than 600 kg.

**Material:**

- metal.

**Distinctive features:**

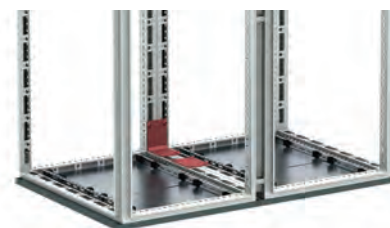
- protection degree is IP55;
- if the value of 600 kg is exceeded, it is necessary to use reinforced fasteners additionally.

**Scope of supply:**

- 8 fasteners, seal, mounting accessories

Description	Code
Baying kit	R5KE65

## Reinforced fastener


**Purpose:**

- baying of enclosures with total weight of more than 600 kg.

**Material:**

- galvanized steel with thickness of 3 mm.

**Distinctive features:**

- protection degree is IP55;
- used together with the kit for baying of R5KE65 enclosures in case of total weight of enclosures of more than 600 kg.

**Scope of supply:**

- 4 fasteners, mounting accessories.

Fastener type	Code
Corner	R5KSRE65
Straight	R5KRE65

## Joint angle for transportation


**Purpose:**

- transportation of enclosures.

**Material:**

- galvanized steel with thickness of 5 mm.

**Scope of supply:**

- 2 angles, mounting accessories.

Description	Code
Kit of joint angles for transportation	R5TSE02

## Lifting beam for transportation


**Purpose:**

- transportation of enclosures.

**Material:**

- steel with thickness of 4 mm, RAL 7011 powder coating.

**Distinctive features:**

- it is necessary to specify beam length in an order.

**Scope of supply:**

- 1 beam.

Description	Code
Lifting beam for linear assembly	R5TSE**

## Eye bolt


**Purpose:**

- transportation of enclosures.

**Material:**

- metal.

**Distinctive features:**

- maximum vertical load on one bolt is 250 kg. This item is not recommended for transportation of more than one enclosure!

**Scope of supply:**

- 4 eye bolts.

Description	Code
4 eye bolts	R5A33

## Cage nut


**Purpose:**

- equipment installation.

**Material:**

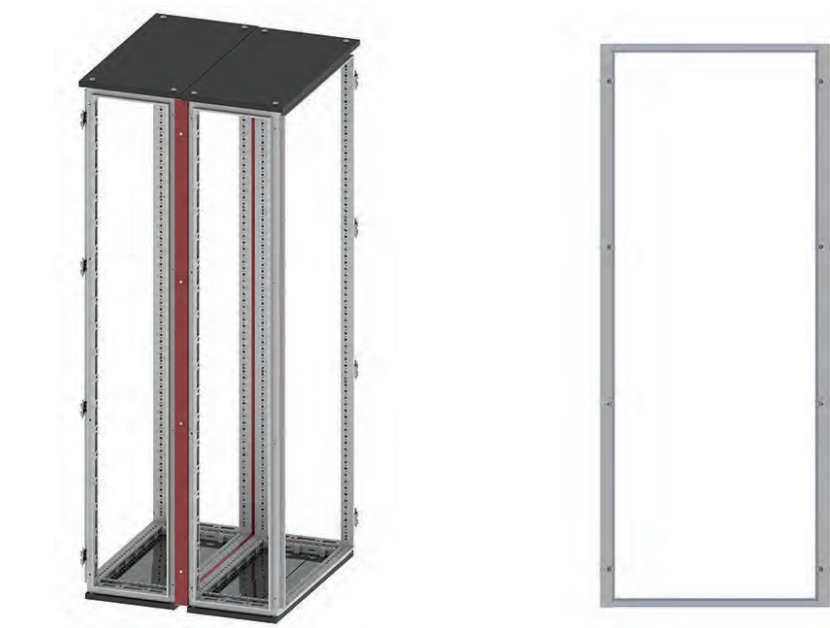
- galvanized steel.

**Scope of supply:**

- 50 pcs.

Thread	Package, pcs	Code
M6	50	CM230600
M8	50	CM230800

"Back-to-back" baying kit



- Purpose:**
- baying of enclosures.
- Material:**
- steel with thickness of 1.5 mm, RAL 7035 powder coating.
- Distinctive features:**
- protection degree is IP55.
- Scope of supply:**
- frame, seal, mounting accessories.

Enclosure dimensions, mm		Code
height	width	
1800	300	R5KFRE1830
	400	R5KFRE1840
	600	R5KFRE1860
	800	R5KFRE1880
	1000	R5KFRE18100
2000	300	R5KFRE2030
	400	R5KFRE2040
	600	R5KFRE2060
	800	R5KFRE2080
	1000	R5KFRE20100
2200	300	R5KFRE2230
	400	R5KFRE2240
	600	R5KFRE2260
	800	R5KFRE2280
	1000	R5KFRE22100

Special nut



- Purpose:**
- equipment installation.
- Material:**
- die-cast zinc alloy.
- Distinctive features:**
- nut structure has a breaking lug.
- Scope of supply:**
- 50 pcs.

Thread	Code
M6	R5A51
M8	R5A52



Self-tapping screw



- Purpose:**
- equipment installation.
- Material:**
- galvanized steel.
- Distinctive features:**
- M4, 8x12 mm.
- Scope of supply:**
- 50 pcs.

Description	Code
M4 self-tapping screws, 8x12 mm	R5A07

Self-tapping TORX screw



- Purpose:**
- equipment installation.
- Material:**
- galvanized steel.
- Distinctive features:**
- DIN 7500C.
- Scope of supply:**
- M5, 8x12 mm.
- Scope of supply:**
- 100 pcs.

Description	Code
Self-tapping screws M5x12 mm, TORX	R5M512

U-type profile



- Purpose:**
- protection of notch edges on external enclosure elements.
- Material:**
- PVC.
- Distinctive features:**
- installed on steel with thickness of 1–1.5 mm.
- Scope of supply:**
- 10 meters.

Description	Code
U-type profile for edge protection	R5PP01

Aerosol spray-on paint



- Purpose:**
- repair of powder coating damages occurring in mechanical works on enclosure elements.
- Scope of supply:**
- 1 spray can.

Color	Volume, ml	Code
RAL 7032	400	R5A21
RAL 7035	400	R5A24
RAL 7011	400	R5A54

## Functional units and separation elements

Key elements of the "RAM power" system are functional units (FU) fulfilling the following basic functions:

- provision of power supply to a LVS;
- provision of power supply to one or more output circuits.

Together with separation elements, FUs ensure the following:

- personnel health and safety by way of protection against accidental contact with current-carrying parts;
- prevention of occurrence and spreading of electric arc within LVS.

The unit comprises the following elements:

- front panel;
- mounting plate;
- kit of mounting rails and fastening elements.

Depending on the rated current, circuit breaker type and presence of additional accessories, FUs may have a great number of options:

- for vertical or horizontal configuration of circuit breakers (CB);
- external or internal designs of FUs (front panels different from each other);
- complete units for circuit breakers of leading manufacturers or blank units for any circuit breaker not having pre-perforation both on the front and mounting panels;
- depending on a design of circuit breakers: fixed, plug-in, withdrawable, with a differential protection unit, motor drive, etc.

## Horizontal installation of MCCB for up to 630 A

### Separation elements

Each functional unit has the possibility of increase of the separation degree without additional human processing

### Unit rails

Mounting rails of a functional unit have notches for quick determination of a place for installation of the mounting plate

### Mounting plate

Adapted both for vertical and horizontal installation of CBs

### Front panel

Presence or absence of pre-perforation depends on a type of a CB used and additional accessories

## Installation of ACB for up to 6300 A

### Separation elements

Each functional unit has the possibility of increase of the separation degree without additional human processing

### Front panel

Presence or absence of pre-perforation depends on a type of a CB used and additional accessories

## Main features of functional units

At the present day, the product range of the "RAM power" system includes approximately 200 versions of complete functional units created for the majority of series of circuit breakers, such as 3VT, 3WL/3WT, Compact NS/NSX, Masterpact NW/NT, Tmax XT, T, Emax E. When using CBs not specified in the above mentioned list, blank functional units for any CB should be considered for application.



### Pre-perforation of front panel and mounting plate

Each functional unit has unique pre-perforation ensuring high mounting speed without additional human processing



### Precise position of mounting plate

Notches on rails serve as the marks for mounting plate installation place determined by CB type and availability of additional accessories



### Ease of installation/removal

Front panel of internal functional unit has locks with a 1/4 turn and ergonomic handles for its convenient and quick installation/removal



### Maintenance safety

Ground plate provides single close loop between lock, functional unit front panel and enclosure



### External panel hinges

External front panels of functional units have new type of hinge attachment of which is performed on standard side perforation of enclosure upright excluding human processing



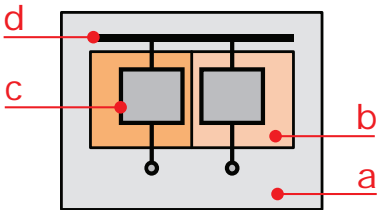
### High protection degree

Urethane-foam seal fits tightly against hinges and edges of enclosure ensuring dust and moisture protection degree of up to IP55.

Separation

In accordance with GOST IEC 61439, separation form ensures the following:

- protection against contact with current-carrying parts of adjacent functional units. The protection degree shall be at least IP2X;
- limitation of the probability of accidental arc striking;
- protection against ingress of foreign solids from one LVS unit to an adjacent one.



**Designations**

- a Empty enclosure
- b Internal separation
- c Functional unit, including the terminals for the associated external conductors
- d Busbars, including the distribution busbars

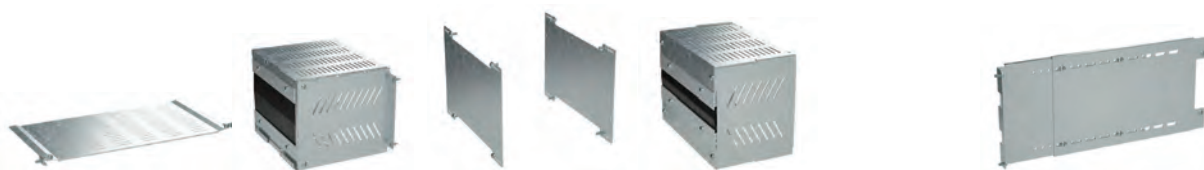
Form 1	Form 2		Form 3		Form 4	
Internal separation is absent	Separation of busbars from all functional units		Separation of busbars from all functional units. <ul style="list-style-type: none"><li>• Separation of all functional units from each other.</li><li>• Separation of the terminals for external conductors and the external conductors from the functional units, but not from the terminals of other functional units</li></ul>		Separation of busbars from all functional units. <ul style="list-style-type: none"><li>• Separation of all functional units from each other.</li><li>• Separation of the terminals for external conductors associated with a functional unit from the terminals of any other functional unit and from the busbars.</li><li>• Segregation of the external conductors from the busbars</li><li>• Separation of the external conductors associated with a functional unit from other functional units and their terminals – The external conductors do not need to be separated from each other</li></ul>	
	Form 2a	Form 2b	Form 3a	Form 3b	Form 4a	Form 4b
	The terminals for external conductors are not separated from the busbars	The terminals for external conductors are separated from the busbars	The terminals for external conductors are not separated from the busbars	The terminals for external conductors and the external conductors are separated from the busbars	The terminals for external conductors are in the same compartment as associated functional unit	The terminals for external conductors are not in the same compartment as associated functional unit but are in individual spaces or compartments, separated, enclosed and protected

## Selection table of separation elements for MCCB functional units



CB series	In, A	Device orientation	Design of device	Enclosure width, mm	Panel height, mm	R5PKIB internal kit for CB	R5SVS vertical blind divider	R5SR carrier for CB with motor drive
3VT1, BC160	160	Horizontal	F	600	150	R5PKIB1H61112	R5SVS150	R5SR60S
			F-MO	600	200	R5PKIB1H61212	R5SVS200	R5SR60S
		Vertical	F, F-MO	600	200	R5PKIB1V61712	R5SVS200	R5SR60L
			F, F-MO	800	200	R5PKIB1V81712	R5SVS200	R5SR80L
3VT2, BD250	250	Horizontal	F, F-MO, P, P-MO	600	150	R5PKIB1H62213	R5SVS150	R5SR60S
			W, W-MO	600	250	R5PKIB1H61913	R5SVS250	R5SR60S
		Vertical	F, F-MO, P, P-MO, W, W-MO	600	350	R5PKIB1V62313	R5SVS350	R5SR60L
			F, F-MO, P, P-MO, W, W-MO	800	350	R5PKIB1V82313	R5SVS350	R5SR80L
3VT3, BH630	630	Horizontal	F, F-MO, P, P-MO	600	200	R5PKIB1H62216	R5SVS200	R5SR60S
			W, W-MO	600	250	R5PKIB1H61916	R5SVS250	R5SR60S
		Vertical	F, F-MO, P, P-MO, W, W-MO	600	400	R5PKIB1V62316	R5SVS400	R5SR60L
			F, F-MO, P, P-MO	800	400	R5PKIB1V82216	R5SVS400	R5SR60L
NSX	100-250	Horizontal	W, W-MO	800	400	R5PKIB1V81916	R5SVS400	R5SR60L
			F, F-MO, P, P-MO	600	150	R5PKIB3H62213	R5SVS150	R5SR60S
		Vertical	W, W-MO	600	250	R5PKIB3H61913	R5SVS250	R5SR60S
			F, F-MO, P, P-MO	600	250	R5PKIB3V62213	R5SVS250	R5SR60L
NSX	400-630	Horizontal	W, W-MO	600	250	R5PKIB3V61913	R5SVS250	R5SR60L
			F, F-MO, P, P-MO	800	250	R5PKIB3V82213	R5SVS250	R5SR80L
		Vertical	W, W-MO	800	250	R5PKIB3V81913	R5SVS250	R5SR80L
			F, F-MO, P	600	200	R5PKIB3H62116	R5SVS200	R5SR60S
T5	400-630	Horizontal	W	600	250	R5PKIB3H61416	R5SVS250	R5SR60S
			P-MO	600	300	R5PKIB3H61516	R5SVS300	R5SR60S
		Vertical	W-MO	600	300	R5PKIB3H61616	R5SVS300	R5SR60S
			F, F-MO, P	600	350	R5PKIB3V62116	R5SVS350	R5SR60L
T4	250-320	Horizontal	W	600	350	R5PKIB3V61516	R5SVS350	R5SR60L
			P, P-MO, W, W-MO	600	350	R5PKIB3V62816	R5SVS350	R5SR60L
		Vertical	F, F-MO, P	800	350	R5PKIB3V82116	R5SVS350	R5SR80L
			W	800	350	R5PKIB3V81516	R5SVS350	R5SR80L
T5	400-630	Horizontal	P-MO	800	350	R5PKIB3V81416	R5SVS350	R5SR80L
			W-MO	800	350	R5PKIB3V81616	R5SVS350	R5SR80L
		Vertical	F, F-MO	600	200	R5PKIB2H61716	R5SVS200	R5SR60S
			P	600	200	R5PKIB2H61316	R5SVS200	R5SR60S
T4	250-320	Horizontal	W	600	250	R5PKIB2H61516	R5SVS250	R5SR60S
			P-MO	600	200	R5PKIB2H61416	R5SVS200	R5SR60S
		Vertical	W-MO	600	250	R5PKIB2H61616	R5SVS250	R5SR60S
			F, F-MO	600	250	R5PKIB2V61716	R5SVS250	R5SR60L
T5	400-630	Horizontal	P	600	350	R5PKIB2V61316	R5SVS350	R5SR60L
			W	600	350	R5PKIB2V61516	R5SVS350	R5SR60L
		Vertical	P-MO	600	350	R5PKIB2V61416	R5SVS350	R5SR60L
			W-MO	600	350	R5PKIB2V61616	R5SVS350	R5SR60L
T4	250-320	Horizontal	F, F-MO	800	250	R5PKIB2V81716	R5SVS250	R5SR80L
			P	800	350	R5PKIB2V81316	R5SVS350	R5SR80L
		Vertical	W	800	350	R5PKIB2V81516	R5SVS350	R5SR80L
			P-MO	800	350	R5PKIB2V81416	R5SVS350	R5SR80L
T5	400-630	Horizontal	W-MO	800	350	R5PKIB2V81616	R5SVS350	R5SR80L
			F, F-MO	600	150	R5PKIB2H61714	R5SVS150	R5SR60S
		Vertical	P	600	150	R5PKIB2H61314	R5SVS150	R5SR60S
			W	600	250	R5PKIB2H61514	R5SVS250	R5SR60S
T4	250-320	Horizontal	P-MO	600	150	R5PKIB2H61414	R5SVS150	R5SR60S
			W-MO	600	250	R5PKIB2H61614	R5SVS250	R5SR60S
		Vertical	F, F-MO	600	250	R5PKIB2V61714	R5SVS250	R5SR60L
			P	600	250	R5PKIB2V61314	R5SVS250	R5SR60L
T5	400-630	Horizontal	W	600	250	R5PKIB2V61514	R5SVS250	R5SR60L
			P-MO	600	250	R5PKIB2V61414	R5SVS250	R5SR60L
		Vertical	W-MO	600	250	R5PKIB2V61614	R5SVS250	R5SR60L
			F, F-MO	800	250	R5PKIB2V81714	R5SVS250	R5SR80L
T4	250-320	Horizontal	P	800	250	R5PKIB2V81314	R5SVS250	R5SR80L
			W	800	250	R5PKIB2V81514	R5SVS250	R5SR80L
		Vertical	P-MO	800	250	R5PKIB2V81414	R5SVS250	R5SR80L
			W-MO	800	250	R5PKIB2V81614	R5SVS250	R5SR80L

F – fixed, F-MO – fixed with motor drive, P – plug-in, P-MO – plug-in with motor drive, W – withdrawable, W-MO – withdrawable with motor drive.



R5SGS horizontal divider	R5FCB side cubicle	R5SVP vertical perforated divider	R5BCB rear cubicle	R5SBT vertical terminal divider*		
				Depth of 800	Depth of 400+600	Depth of 400+800
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB200	R5SVP20013	R5BCB20013	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	-					
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB250	R5SVP25013	R5BCB25013	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-					
R5SGS80	R5FCB200	R5SVP20016	R5BCB20016	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	R5FCB250	R5SVP25016	R5BCB25016	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-					
R5SGS80	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB250	R5SVP25013	R5BCB25013	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-					
R5SGS60	-					
R5SGS80	R5FCB200	R5SVP20016	R5BCB20016	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	R5FCB250	R5SVP25016	R5BCB25016	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	R5FCB300	R5SVP30016	R5BCB30016	R5SBT830	R5SBT4630	R5SBT4830
R5SGS60	R5FCB300	R5SVP30016	R5BCB30016	R5SBT830	R5SBT4630	R5SBT4830
R5SGS60	-					
R5SGS60	-					
R5SGS60	-					
R5SGS80	-					
R5SGS80	-					
R5SGS80	R5FCB200	R5SVP20016	R5BCB20016	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	R5FCB200	R5SVP20016	R5BCB20016	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	R5FCB250	R5SVP25016	R5BCB25016	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	R5FCB200	R5SVP20016	R5BCB20016	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	R5FCB250	R5SVP25016	R5BCB25016	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-					
R5SGS60	-					
R5SGS60	-					
R5SGS60	-					
R5SGS80	-					
R5SGS80	-					
R5SGS80	-					
R5SGS80	-					
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB250	R5SVP25013	R5BCB25013	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB250	R5SVP25013	R5BCB25013	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-					
R5SGS60	-					
R5SGS60	-					
R5SGS60	-					
R5SGS80	-					
R5SGS80	-					
R5SGS80	-					
R5SGS80	-					



## Selection table of separation elements for MCCB functional units



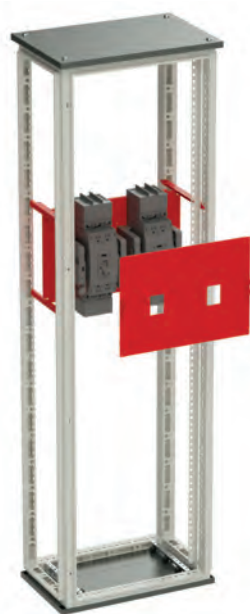
CB series	In, A	Device orientation	Design of device	Enclosure width, mm	Panel height, mm	R5PKIB internal kit for CB	R5SVS vertical blind divider	R5SR carrier for CB with motor drive
XT1	160	Horizontal	F	600	150	R5PKIB2H61112	R5SVS150	R5SR60S
			F-MO	600	150	R5PKIB2H61212	R5SVS150	R5SR60S
			P	600	150	R5PKIB2H61312	R5SVS150	R5SR60S
			P-MO	600	150	R5PKIB2H61412	R5SVS150	R5SR60S
		Vertical	F	600	250	R5PKIB2V61112	R5SVS250	R5SR60L
			F-MO	600	250	R5PKIB2V61212	R5SVS250	R5SR60L
			P	600	250	R5PKIB2V61312	R5SVS250	R5SR60L
			P-MO	600	250	R5PKIB2V61412	R5SVS250	R5SR60L
			F	800	250	R5PKIB2V81112	R5SVS250	R5SR80L
			F-MO	800	250	R5PKIB2V81212	R5SVS250	R5SR80L
			P	800	250	R5PKIB2V81312	R5SVS250	R5SR80L
			P-MO	800	250	R5PKIB2V81412	R5SVS250	R5SR80L
XT2	160	Horizontal	F	600	150	R5PKIB2H61112A	R5SVS150	R5SR60S
			F-MO	600	150	R5PKIB2H61212A	R5SVS150	R5SR60S
			P	600	150	R5PKIB2H61312A	R5SVS150	R5SR60S
			P-MO	600	150	R5PKIB2H61412A	R5SVS150	R5SR60S
			W, W-MO	600	200	R5PKIB2H61912A	R5SVS200	R5SR60S
		Vertical	F	600	250	R5PKIB2V61112A	R5SVS250	R5SR60L
			F-MO	600	250	R5PKIB2V61212A	R5SVS250	R5SR60L
			P	600	250	R5PKIB2V61312A	R5SVS250	R5SR60L
			P-MO	600	250	R5PKIB2V61412A	R5SVS250	R5SR60L
			W, W-MO	600	250	R5PKIB2V61912A	R5SVS250	R5SR60L
			F	800	250	R5PKIB2V81112A	R5SVS250	R5SR80L
			F-MO	800	250	R5PKIB2V81212A	R5SVS250	R5SR80L
			P	800	250	R5PKIB2V81312A	R5SVS250	R5SR80L
			P-MO	800	250	R5PKIB2V81412A	R5SVS250	R5SR80L
			W, W-MO	800	250	R5PKIB2V81912A	R5SVS250	R5SR80L
XT3	250	Horizontal	F	600	150	R5PKIB2H61113	R5SVS150	R5SR60S
			F-MO	600	150	R5PKIB2H61213	R5SVS150	R5SR60S
			P	600	150	R5PKIB2H61313	R5SVS150	R5SR60S
			P-MO	600	150	R5PKIB2H61413	R5SVS150	R5SR60S
		Vertical	F	600	300	R5PKIB2V61113	R5SVS300	R5SR60L
			F-MO	600	300	R5PKIB2V61213	R5SVS300	R5SR60L
			P	600	300	R5PKIB2V61313	R5SVS300	R5SR60L
			P-MO	600	300	R5PKIB2V61413	R5SVS300	R5SR60L
			F	800	300	R5PKIB2V81113	R5SVS300	R5SR80L
			F-MO	800	300	R5PKIB2V81213	R5SVS300	R5SR80L
			P	800	300	R5PKIB2V81313	R5SVS300	R5SR80L
			P-MO	800	300	R5PKIB2V81413	R5SVS300	R5SR80L
XT4	250	Horizontal	F	600	150	R5PKIB2H61113B	R5SVS150	R5SR60S
			F-MO	600	150	R5PKIB2H61213B	R5SVS150	R5SR60S
			P	600	150	R5PKIB2H61313B	R5SVS150	R5SR60S
			P-MO	600	150	R5PKIB2H61413B	R5SVS150	R5SR60S
			W, W-MO	600	250	R5PKIB2H61913B	R5SVS250	R5SR60S
		Vertical	F	600	300	R5PKIB2V61113B	R5SVS300	R5SR60L
			F-MO	600	300	R5PKIB2V61213B	R5SVS300	R5SR60L
			P	600	300	R5PKIB2V61313B	R5SVS300	R5SR60L
			P-MO	600	300	R5PKIB2V61413B	R5SVS300	R5SR60L
			W, W-MO	600	300	R5PKIB2V61913B	R5SVS300	R5SR60L
			F	800	300	R5PKIB2V81113B	R5SVS300	R5SR80L
			F-MO	800	300	R5PKIB2V81213B	R5SVS300	R5SR80L
			P	800	300	R5PKIB2V81313B	R5SVS300	R5SR80L
			P-MO	800	300	R5PKIB2V81413B	R5SVS300	R5SR80L
			W, W-MO	800	300	R5PKIB2V81913B	R5SVS300	R5SR80L

F – fixed, F-MO – fixed with motor drive, P – plug-in, P-MO – plug-in with motor drive, W – withdrawable, W-MO – withdrawable with motor drive.



R5SGS horizontal divider	R5FCB side cubicle	R5SVP vertical perforated divider	R5BCB rear cubicle	R5SBT vertical terminal divider*		
				Depth of 800	Depth of 400+600	Depth of 400+800
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	-	-	-	-	-	-
R5SGS60						
R5SGS60						
R5SGS60						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB200	R5SVP20013	R5BCB20013	R5SBT820	R5SBT4620	R5SBT4820
R5SGS60	-	-	-	-	-	-
R5SGS60						
R5SGS60						
R5SGS60						
R5SGS60						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	-	-	-	-	-	-
R5SGS60						
R5SGS60						
R5SGS60						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB150	R5SVP15013	R5BCB15013	R5SBT815	R5SBT4615	R5SBT4815
R5SGS60	R5FCB250	R5SVP25013	R5BCB25013	R5SBT825	R5SBT4625	R5SBT4825
R5SGS60	-	-	-	-	-	-
R5SGS60						
R5SGS60						
R5SGS60						
R5SGS80						
R5SGS80						
R5SGS80						
R5SGS80						

## Functional units for MCCB 3VT, MODEION series



### Purpose:

- installation of MCCB, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- front panel and mounting plate have pre-perforation for fast and simple installation of circuit breakers;
- R5TE\*M uprights preliminary installation is required for mounting of unit front panel; R5MVE\*M intermediate depth uprights installation is required during the unit installation in enclosure with a depth of >400 mm.

### Scope of supply:

- front panel with locks with a 1/4 turn, mounting plate, 4 mounting profiles with brackets, mounting accessories.

## Vertical configuration

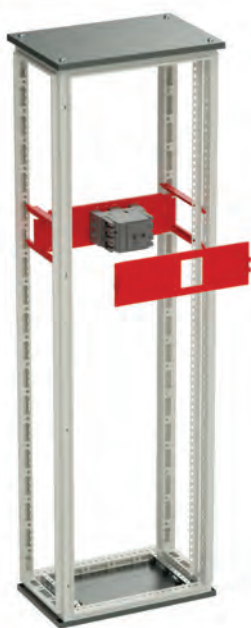
CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure width, mm	Front panel height, mm	Code
3VT1, BC160 (160 A)	F, F-MO	3	5	600	200	R5PKIB1V61712
		4	3			
		3, 4	2	800	200	R5PKIB1V81712
			8			
			6			
			4			
	3					
3VT2, BD250 (250 A)	F, F-MO, P, P-MO, W, W-MO	3	3	600	350	R5PKIB1V62313
			2			
			5	800	350	R5PKIB1V82313
			3			
3VT3, BH630 (630 A)	F, F-MO, P, P-MO		2	600	400	R5PKIB1V62316
			4	800	400	R5PKIB1V82216
	W, W-MO				400	R5PKIB1V81916

## Horizontal configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure width, mm	Front panel height, mm	Code
3VT1, BC160 (160 A)	F	3	1	600	150	R5PKIB1H61112
	F-MO	4	1		200	R5PKIB1H61212
3VT2, BD250 (250 A)	F, F-MO, P, P-MO	3	1	600	150	R5PKIB1H62213
	W, W-MO		1		250	R5PKIB1H61913
3VT3, BH630 (630 A)	F, F-MO, P, P-MO		1	600	200	R5PKIB1H62216
	W, W-MO		1		250	R5PKIB1H61916

F – fixed, F-MO – fixed with motor drive, P – plug-in, P-MO – plug-in with motor drive, W – withdrawable, W-MO – withdrawable with motor drive.

## Functional units for MCCB Compact NSX/NS series



### Purpose:

- installation of MCCB, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- front panel and mounting plate have pre-perforation for fast and simple installation of circuit breakers;
- R5TE\*M uprights preliminary installation is required for mounting of unit front panel; R5MVE\*M intermediate depth uprights installation is required during the unit installation in enclosure with a depth of >400 mm.

### Scope of supply:

- front panel with locks with a 1/4 turn, mounting plate, 4 mounting profiles with brackets, mounting accessories.

## Vertical configuration

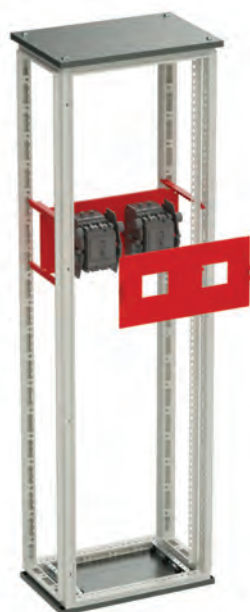
CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure dimensions, mm		Front panel height, mm	Code
				width	depth		
NSX 100–250	F, F-MO, P, P-MO	3	4	600	400	250	R5PKIB3V62213
	W, W-MO		2			250	R5PKIB3V61913
	F, F-MO, P, P-MO		5	800	400	250	R5PKIB3V82213
	W, W-MO		2			250	R5PKIB3V81913
NSX 400–630	F, F-MO, P	3	3	600	400	350	R5PKIB3V62116
	W		2			350	R5PKIB3V61516
	P, P-MO, W, W-MO		2		600	350	R5PKIB3V62816
	F, F-MO, P		4	800	400	350	R5PKIB3V82116
	W		2			350	R5PKIB3V81516
	P-MO		4		600	350	R5PKIB3V81416
	W-MO		2			350	R5PKIB3V81616

## Horizontal configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure dimensions, mm		Front panel height, mm	Code
				width	depth		
NSX 100–250	F, F-MO, P, P-MO	3	1	600	400	150	R5PKIB3H62213
	W, W-MO		1			250	R5PKIB3H61913
NSX 400–630	F, F-MO, P	3	1	600	400	200	R5PKIB3H62116
	W		1			300	R5PKIB3H61516
	P-MO		1		600	250	R5PKIB3H61416
	W-MO		1			300	R5PKIB3H61616

F – fixed, F-MO – fixed with motor drive, P – plug-in, P-MO – plug-in with motor drive, W – withdrawable, W-MO – withdrawable with motor drive.

## Functional units for MCCB Tmax XT series



### Purpose:

- installation of MCCB, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- front panel and mounting plate have pre-perforation for fast and simple installation of circuit breakers;
- R5TE\*M uprights preliminary installation is required for mounting of unit front panel; R5MVE\*M intermediate depth uprights installation is required during the unit installation in enclosure with a depth of >400 mm.

### Scope of supply:

- front panel with locks with a 1/4 turn, mounting plate, 4 mounting profiles with brackets, mounting accessories.

## Vertical configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure width, mm	Front panel height, mm	Code
XT1 (160A)	F	3	5	600	250	R5PKIB2V61112
	F-MO		3		250	R5PKIB2V61212
	P		5		250	R5PKIB2V61312
	P-MO		3		250	R5PKIB2V61412
	F		8	800	250	R5PKIB2V81112
	F-MO		4		250	R5PKIB2V81212
	P		8		250	R5PKIB2V81312
	P-MO		4		250	R5PKIB2V81412
XT2 (160A)	F	3	4	600	250	R5PKIB2V61112A
	F-MO		3		250	R5PKIB2V61212A
	P		4		250	R5PKIB2V61312A
	P-MO		3		250	R5PKIB2V61412A
	W, W-MO		2		250	R5PKIB2V61912A
	F		6	800	250	R5PKIB2V81112A
	F-MO		6			R5PKIB2V81212A
	P		6		250	R5PKIB2V81312A
	P-MO		6			R5PKIB2V81412A
	W, W-MO		4		250	R5PKIB2V81912A
	F		3	600	300	R5PKIB2V61113
	F-MO		3		300	R5PKIB2V61213
	P		3		300	R5PKIB2V61313
	P-MO		3		300	R5PKIB2V61413
XT3 (250A)	F	3	5	800	300	R5PKIB2V81113
	F-MO		5		300	R5PKIB2V81213
	P		5		300	R5PKIB2V81313
	P-MO		5		300	R5PKIB2V81413
	F		3	600	300	R5PKIB2V61113B
	F-MO		3		300	R5PKIB2V61213B
	P		3		300	R5PKIB2V61313B
	P-MO		3		300	R5PKIB2V61413B
XT4 (250A)	W, W-MO	3	2	600	300	R5PKIB2V61913B
	F		5		300	R5PKIB2V81113B
	F-MO		5		300	R5PKIB2V81213B
	P		5		300	R5PKIB2V81313B
	P-MO		5	800	300	R5PKIB2V81413B
	W, W-MO		3		300	R5PKIB2V81913B
	F		3			
	F-MO		3			
	P		3			
	P-MO		3			
	W, W-MO		2			
	F		5			

F – fixed, F-MO – fixed with motor drive, P – plug-in, P-MO – plug-in with motor drive, W – withdrawable, W-MO – withdrawable with motor drive.

## Horizontal configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure width, mm	Front panel height, mm	Code
XT1 (160A)	F	3	1	600	150	R5PKIB2H61112
	F-MO		1		150	R5PKIB2H61212
	P		1		150	R5PKIB2H61312
	P-MO		1		150	R5PKIB2H61412
XT2 (160A)	F	3	1	600	150	R5PKIB2H61112A
	F-MO		1		150	R5PKIB2H61212A
	P		1		150	R5PKIB2H61312A
	P-MO		1		150	R5PKIB2H61412A
	W, W-MO		1		200	R5PKIB2H61912A
XT3 (250A)	F	3	1	600	150	R5PKIB2H61113
	F-MO		1		150	R5PKIB2H61213
	P		1		150	R5PKIB2H61313
	P-MO		1		150	R5PKIB2H61413
XT4 (250A)	F	3	1	600	150	R5PKIB2H61113B
	F-MO		1		150	R5PKIB2H61213B
	P		1		150	R5PKIB2H61313B
	P-MO		1		150	R5PKIB2H61413B
	W, W-MO		1		250	R5PKIB2H61913B



## Functional units for MCCB Tmax T series



### Purpose:

- installation of MCCB, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- front panel and mounting plate have pre-perforation for fast and simple installation of circuit breakers;
- R5TE\*M uprights preliminary installation is required for mounting of unit front panel; R5MVE\*M intermediate depth uprights installation is required during the unit installation in enclosure with a depth of >400 mm.

### Scope of supply:

- front panel with locks with a 1/4 turn, mounting plate, 4 mounting profiles with brackets, mounting accessories.

## Horizontal configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure dimensions, mm		Front panel height, mm	Code
				width	depth		
T4 250/320	F, F-MO	3	3	600	400	250	R5PKIB2V61714
	P		3			250	R5PKIB2V61314
	W		2			250	R5PKIB2V61514
	P-MO		3		600	250	R5PKIB2V61414
	W-MO		2			250	R5PKIB2V61614
	F, F-MO		5	800	400	250	R5PKIB2V81714
	P		5			250	R5PKIB2V81314
	W		3			250	R5PKIB2V81514
	P-MO		5		600	250	R5PKIB2V81414
	W-MO		3			250	R5PKIB2V81614
T5 400/630	F, F-MO	3	3	600	400	250	R5PKIB2V61716
	P		2			350	R5PKIB2V61316
	W		2			350	R5PKIB2V61516
	P-MO		2		600	350	R5PKIB2V61416
	W-MO		2			350	R5PKIB2V61616
	F, F-MO		4	800	400	250	R5PKIB2V81716
	P		4			350	R5PKIB2V81316
	W		3			350	R5PKIB2V81516
	P-MO		4		600	350	R5PKIB2V81416
	W-MO		3			350	R5PKIB2V81616

## Vertical configuration

CB series	CB version	Number of poles	Maximum CB number in the unit	Enclosure dimensions, mm		Front panel height, mm	Code
				width	depth		
T4 250/320	F, F-MO	3	1	600	400	150	R5PKIB2H61714
	P		1			150	R5PKIB2H61314
	W		1			250	R5PKIB2H61514
	P-MO		1		600	150	R5PKIB2H61414
	W-MO		1			250	R5PKIB2H61614
T5 400/630	F, F-MO	3	1		400	200	R5PKIB2H61716
	P		1			200	R5PKIB2H61316
	W		1			250	R5PKIB2H61516
	P-MO		1		600	200	R5PKIB2H61416
	W-MO		1			250	R5PKIB2H61616

## Blank functional units for any MCCB



### Purpose:

- installation of MCCB of any manufacturer, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- absence of pre-perforation;
- R5TE\*M uprights preliminary installation is required for mounting of unit front panel;
- R5MVE\*M intermediate depth uprights installation is required during the unit installation in enclosure with a depth of >400 mm.

### Scope of supply:

- front panel with locks with a 1/4 turn, mounting plate, 4 mounting profiles with brackets, mounting accessories.

Front panel height, mm	Enclosure width, mm	
	600	800
150	R5PKIB0615	R5PKIB0815
200	R5PKIB0620	R5PKIB0820
250	R5PKIB0625	R5PKIB0825
300	R5PKIB0630	R5PKIB0830
350	R5PKIB0635	R5PKIB0835

## Internal kits for modular equipment



### Purpose:

- modular equipment installation, access restriction.

### Material:

- front panel is made of painted steel with thickness of 1 mm, RAL 7035.

### Distinctive features:

- attachment bracket of DIN rail has perforation with the possibility of adjustment of rail offset from the front panel. Offset range: from 42.5 to 92 mm with perforation pitch 5.5 mm;
- R5TE\*M uprights preliminary installation is required for installation of front panel.

### Scope of supply:

- front panel with locks with a 1/4 turn, DIN rail, mounting brackets, mounting accessories.

Front panel height, mm	Enclosure width, mm	
	600	800
150	R5PKIBOV61524	R5PKIBOV81524
200	R5PKIBOV62024	R5PKIBOV82024

## Uprights for installing panels of internal functional units



### Purpose:

- installation of front panels of functional units.

### Material:

- painted steel with thickness of 2 mm, RAL 7035.

### Distinctive features:

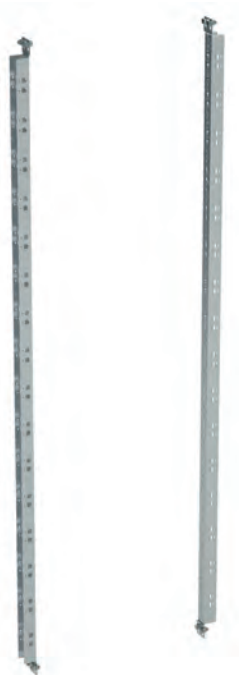
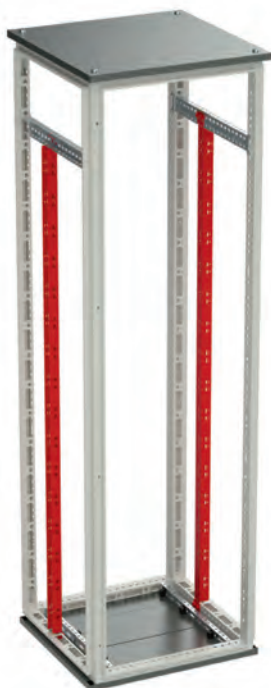
- kit installation is mandatory for installation of front panels.

### Scope of supply:

- 2 uprights, mounting accessories.

Enclosure height, mm	Code
1800	R5TE18M
2000	R5TE20M
2200	R5TE22M

## Intermediate depth uprights



### Purpose:

- installation of functional units and separation elements.

### Material:

- galvanized steel with thickness of 1.5 mm.

### Distinctive features:

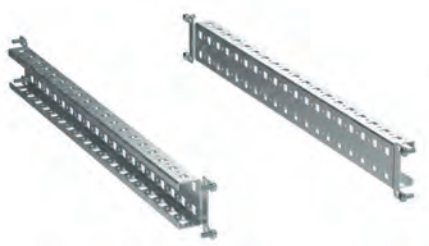
- R5PD\* rail kit is required for uprights installation;
- in case of installation of uprights in enclosure with a depth of 800 mm and installation of support elements for distribution busbars it is necessary to use R5PB800 special rail;
- kit installation is mandatory for installation of functional units in enclosure with a depth of >400 mm.

### Scope of supply:

- 2 uprights, mounting accessories.

Enclosure height, mm	Code
1800	R5MVE18M
2000	R5MVE20M
2200	R5MVE22M

## Side rails



### Purpose:

- installation of functional units and separation elements.

### Material:

- galvanized steel with thickness of 1.5 mm.

### Distinctive features:

- have two mounting perforated planes with pitch of 25 mm;
- installation is performed on enclosure depth.

### Scope of supply:

- 2 rails, mounting accessories.

Enclosure depth, mm	Code
400	R5PD400
600	R5PD600
800	R5PD800

Special side rail



- Purpose:**
- organization of mounting planes for installation of vertical busbar run.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- has two mounting perforated planes with pitch of 25 mm;
  - used only for enclosures with a depth of 800 mm and installed between R5MVE\*M upright and back upright of enclosure.
- Scope of supply:**
- 1 rail, mounting accessories.

Enclosure depth, mm	Code
800	R5PB800

Front rails



- Purpose:**
- assembly of universal structures.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- have two mounting perforated planes with pitch of 25 mm;
  - installation is performed between R5PD\* rails.
- Scope of supply:**
- 2 rails, mounting accessories.

Enclosure width, mm	Code
300	R5PW300
400	R5PW400
600	R5PW600
800	R5PW800
1000	R5PW1000

Compensation internal panels

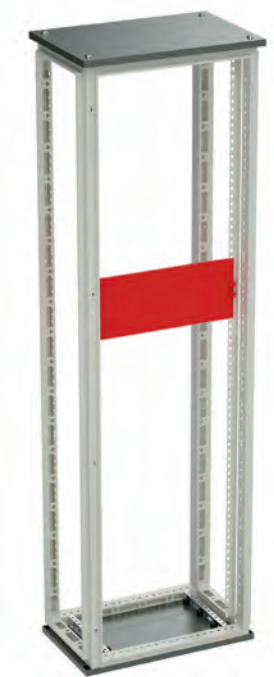


- Purpose:**
- access restriction.
- Material:**
- panel is made of painted steel with thickness of 1 mm, RAL 7035.
- Distinctive features:**
- panel kit is mandatory for installation when using internal blank panels and functional units;
  - panel height is 50 mm.
- Scope of supply:**
- 2 panels with locks with a 1/4 turn, mounting accessories.

Enclosure width, mm	Code
600	R5PCF60
800	R5PCF80



Internal blank panels



- Purpose:**
- access restriction.
- Material:**
- panel is made of painted steel with thickness of 1 mm, RAL 7035.
- Distinctive features:**
- panel kit is mandatory for installation when using internal blank panels and functional units;
  - panel height is 50 mm.
- Scope of supply:**
- 2 panels with locks with a 1/4 turn, mounting accessories.

Enclosure width, mm	Height, mm	Code
600	50	R5FPI605
	100	R5FPI610
	150	R5FPI615
	200	R5FPI620
	250	R5FPI625
	300	R5FPI630
	350	R5FPI635
	400	R5FPI640
	450	R5FPI645
	500	R5FPI650
800	50	R5FPI805
	100	R5FPI810
	150	R5FPI815
	200	R5FPI820
	250	R5FPI825
	300	R5FPI830
	350	R5FPI835
	400	R5FPI840
	450	R5FPI845
	500	R5FPI850

External blank functional units for any MCCB



- Purpose:**
- installation of MCCB of any manufacturer, access restriction.
- Material:**
- external door is made of painted steel with thickness of 2 mm, RAL 7035;
  - mounting plate is made of galvanized steel with thickness of 2 mm.
- Distinctive features:**
- R5MVE\*M intermediate depth uprights installation is required during the unit mounting in enclosure with a depth of >400 mm;
  - to provide IP degree mandatory installation of R5TOEM\* ledge is required.
- Scope of supply:**
- external door with locks for a square key, mounting plate, 4 mounting profiles with brackets, mounting accessories.

Door height, mm	Enclosure width, mm	
	600	800
150	R5PKEB0615	R5PKEB0815
200	R5PKEB0620	R5PKEB0820
250	R5PKEB0625	R5PKEB0825
300	R5PKEB0630	R5PKEB0830
350	R5PKEB0635	R5PKEB0835

Carrier for circuit breaker



- Purpose:**
- MCCB carrier with motor drive.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- carrier is installed on mounting profiles of functional units.
- Scope of supply:**
- rail with brackets, mounting accessories.

Enclosure width, mm	CB installation	Code
600	vertical	R5SR60L
	horizontal	R5SR60S
800	vertical	R5SR80L
	horizontal	R5SR80S

Horizontal divider



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- designed for separation arrangement between functional units for MCCB;
  - has perforation for effective heat extraction;
  - divider is installed on profiles of functional unit;
  - when installing divider to functional unit with external partial doors it is necessary to install additionally adapter of R5AT\* ledge and R5TOEM\* ledge.
- Scope of supply:**
- divider, mounting accessories.

Enclosure width, mm	Code
600	R5SGS60
800	R5SGS80

Adapter of R5TOE\*M ledge



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- compensation for distance between R5SGS\* divider and R5TOE\*M ledge;
  - divider is installed on R5TOEM\* ledge.
- Scope of supply:**
- ledge, mounting accessories.

Enclosure width, mm	Code
600	R5AT60
800	R5AT80

Ledge for external partial doors



- Purpose:**
- provision of IP degree.
- Material:**
- painted steel with thickness of 1.5 mm, RAL 7035;
  - ledge fixing brackets are made of polypropylene.
- Distinctive features:**
- ensures firm adherence of edges of external partial doors.
- Scope of supply:**
- ledge, 2 fixing brackets, mounting accessories.

Enclosure width, mm	Code
400	R5TOEM40
600	R5TOEM60
800	R5TOEM80
1000	R5TOEM100

Vertical divider



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- designed for separation arrangement of functional units of MCCB;
  - divider is installed on profiles of functional unit.
- Scope of supply:**
- 2 dividers, mounting accessories.

Divider height, mm	Code
150	R5SVS150
200	R5SVS200
250	R5SVS250
300	R5SVS300
350	R5SVS350
400	R5SVS400

Pre-Perforated vertical divider



- Purpose:**
- separation arrangement, cable/bus entry.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- divider has 9 pre-perforated holes for arrangement of cable/bus entry;
  - designed for separation arrangement of functional units of MCCB;
  - divider is installed on profiles of functional unit.
- Scope of supply:**
- 2 dividers, 6 rubber grommets, mounting accessories.

Divider height, mm	Rated current, A	Code
150	100–250	R5SVP15013
200		R5SVP20013
250		R5SVP25013
200	400–630	R5SVP20016
250		R5SVP25016
300		R5SVP30016

Rubber grommet



- Purpose:**
- for arrangement of cable/bus entry.
- Material:**
- thermoplastic elastomer.
- Color:**
- black.
- Distinctive features:**
- fire resistance V0 according to UL94;
  - dust and moisture protection degree is up to IP65;
  - operating temperature range is from –40 to +130 °C;
  - does not contain halogens;
  - resistant to oil products.
- Scope of supply:**
- 30 pcs.

Inside diameter, mm	Code
22	R5HTT16
47	R5HTT36



## Vertical terminal divider


**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

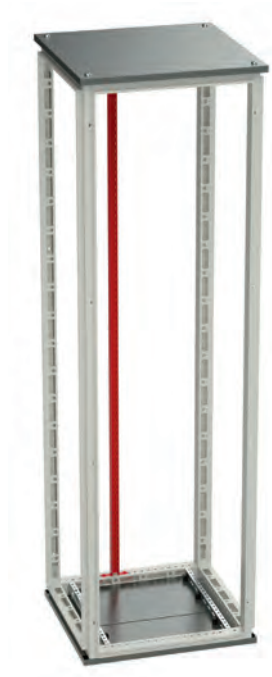
- designed for separation arrangement of functional units of MCCB;
- in case of installation of divider in section, "back-to-back", two R5PH\* uprights are required;
- for installation of divider (front and rear access) mandatory installation of two R5PH\* back uprights is required.

**Scope of supply:**

- divider consisting of two parts, mounting accessories.

Height, mm	Enclosure depth, mm	One section	Two "back-to-back" sections
150	800	R5SBT815	—
200		R5SBT820	
250		R5SBT825	
300		R5SBT830	
150	400+600	—	R5SBT4615
200			R5SBT4620
250			R5SBT4625
300			R5SBT4630
150	400+800		R5SBT4815
200			R5SBT4820
250			R5SBT4825
300			R5SBT4830

Back upright



- Purpose:**
- installation of separation elements.
- Material:**
- painted steel with thickness of 1.5 mm, RAL 7035.
- Distinctive features:**
- has two perforated mounting planes with pitch of 25 mm.
- Scope of supply:**
- 1 upright, mounting accessories.

Enclosure height, mm	Code
1800	R5PH18
2000	R5PH20
2200	R5PH22

Side cubicle



- Purpose:**
- separation arrangement.
- Material:**
- material of cubicle panels is galvanized steel with thickness of 1.5 mm;
  - material of brushes is polyamide.
- Distinctive features:**
- designed for separation arrangement of functional units of MCCB;
  - cubicle installation is performed on R5SVP\* vertical divider;
  - cubicle has perforation for effective heat extraction.
- Scope of supply:**
- cubicle, two brushes, mounting accessories.

Height, mm	Rated current, A	Code
150	100–250	R5FCB150
200	400–630	R5FCB200
250	630–1000	R5FCB250

## Rear cubicle



### Purpose:

- separation arrangement.

### Material:

- material of cubicle panels is galvanized steel with thickness of 1.5 mm;
- material of brushes is polyamide.

### Distinctive features:

- designed for separation arrangement of functional units of MCCB;
- cubicle installation is performed on mounting plate of functional unit;
- cubicle has perforation for effective heat extraction.

### Scope of supply:

- cubicle, two brushes, mounting accessories.

Height, mm	Rated current, A	Code
150	100–250	R5BCB15013
200		R5BCB20013
250		R5BCB25013
200	400–630	R5BCB20016
250		R5BCB25016
300		R5BCB30016

## Internal cable compartment



### Purpose:

- arrangement of internal cable entry and separation arrangement.

### Material:

- door is made of painted steel with thickness of 1.5 mm, RAL 7035;
- upright on height is made of galvanized steel with thickness of 1.5 mm;
- profiles on depth are made of galvanized steel with thickness of 1.5 mm.

### Distinctive features:

- cable compartment width is 200 mm.

### Scope of supply:

- door with locks for slot head screwdriver, 2 profiles on depth, 1 back upright on height, mounting accessories.

Enclosure depth, mm	Enclosure height, mm	Code
400	1800	R5PFIM1840
600		R5PFIM1860
800		R5PFIM1880
400	2000	R5PFIM2040
600		R5PFIM2060
800		R5PFIM2080
400	2200	R5PFIM2240
600		R5PFIM2260
800		R5PFIM2280

Side divider of internal cable compartment



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- divider consists of two parts and has perforation for effective heat extraction;
  - installation is performed on R5MVE\*M upright.
- Scope of supply:**
- 2 divider parts, mounting accessories.

Enclosure height, mm	Enclosure depth, mm	Code
1800	600	R5BCS1860
	800	R5BCS1880
2000	600	R5BCS2060
	800	R5BCS2080
2200	600	R5BCS2260
	800	R5BCS2280

Rear divider of internal cable compartment



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- divider consists of two parts and has perforation for effective heat extraction;
  - installation is performed between enclosure upright and back upright of cable compartment (or R5PH\* upright).
- Scope of supply:**
- 2 divider parts, mounting accessories.

Enclosure height, mm	Code
1800	R5SFIB1860
2000	R5SFIB2060
2200	R5SFIB2260

Side divider



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- divider consists of two parts;
  - divider represents a group of pre-perforated holes with diameter of 47 mm throughout the height with pitch of 97.5 mm. Three holes in a row with pitch of 97.5 mm;
  - mounted R5MVE\*M uprights kit is required for divider installation;
  - R5HTT36 rubber grommets are installed in the holes made (not included in the kit).
- Scope of supply:**
- 2 divider parts, mounting accessories.

Enclosure height, mm	Enclosure depth, mm	Code
1800	600	R5SBD1860
	800	R5SBD1880
2000	600	R5SBD2060
	800	R5SBD2080
2200	600	R5SBD2260
	800	R5SBD2280

## Functional units for ACB SENTRON 3WL/3WT, ARION WL series


**Purpose:**

- installation of ACB, access restriction.

**Material:**

- external door is made of painted steel with thickness of 2 mm, RAL 7035,
- mounting plate is made of galvanized steel with thickness of 2 mm.

**Distinctive features:**

- external door has a cut according to each CB type;
- R5PD\* rail kit is required for installation of CB mounting plate;
- to provide IP degree mandatory installation of R5TOEM\* ledge is required.

**Scope of supply:**

- external door with locks for a square key, hinges, horizontal mounting plate, mounting accessories;
- kit for CB 3WL13 series additionally includes mounting plate enhancer.

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code
3WL11	fixed	3	600	600	R5PKEB1V61122
	withdrawable				R5PKEB1V61522
3WL12	fixed		800		R5PKEB1V81125
	withdrawable				R5PKEB1V81525
3WL13	fixed		1000		R5PKEB1V11127
	withdrawable				R5PKEB1V11527
3WT11	fixed		600		R5PKEB1V61122A
	withdrawable				R5PKEB1V61522A
3WT12	fixed		800		R5PKEB1V81125A
	withdrawable				R5PKEB1V81525A



Functional units for ACB Masterpact NW/NT series



- Purpose:**
- installation of ACB, access restriction.
- Material:**
- external door is made of painted steel with thickness of 2 mm, RAL 7035;
  - mounting plate is made of galvanized steel with thickness of 2 mm.
- Distinctive features:**
- external door has a cut according to each CB type;
  - R5PD\* rail kit is required for installation of CB mounting plate;
  - to provide IP degree mandatory installation of R5TOEM\* ledge is required.
- Scope of supply:**
- external door with locks for a square key, hinges, horizontal mounting plate, mounting accessories;
  - kit for CB NW63 series additionally includes mounting plate enhancer.

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code
Masterpact NW08 – NW25	fixed	3	600	600	R5PKEB3V61123
	withdrawable				R5PKEB3V61523
Masterpact NW32 – NW40	fixed		800		R5PKEB3V81125
	withdrawable				R5PKEB3V81525
Masterpact NW63	fixed		1000		R5PKEB3V11127
	withdrawable				R5PKEB3V11527
Masterpact NT06 – NT16	fixed		600		R5PKEB3V61121
	withdrawable				R5PKEB3V61521

Functional units for ACB Emax E series



- Purpose:**
- installation of ACB, access restriction.
- Material:**
- external door is made of painted steel with thickness of 2 mm, RAL 7035;
  - mounting plate is made of galvanized steel with thickness of 2 mm.
- Distinctive features:**
- external door has a cut according to each CB type;
  - R5PD\* rail kit is required for installation of CB mounting plate;
  - to provide IP degree mandatory installation of R5TOEM\* ledge is required.
- Scope of supply:**
- external door with locks for a square key, hinges, horizontal mounting plate, mounting accessories;
  - kit for CB E6.2 series additionally includes mounting plate enhancer.

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code
Emax E1.2	fixed	3	600	600	R5PKEB2V61121
Emax E1.2	withdrawable				R5PKEB2V61521
Emax E2.2	fixed				R5PKEB2V61123
Emax E2.2	withdrawable				R5PKEB2V61523
Emax E4.2	fixed		800		R5PKEB2V81125
Emax E4.2	withdrawable				R5PKEB2V81525
Emax E6.2	fixed		1000		R5PKEB2V11127
Emax E6.2	withdrawable				R5PKEB2V11527

## Segregation kits for ACB


**Purpose:**

- separation arrangement.

**Material:**

- front panel is made of galvanized steel with thickness of 1.5 mm;
- back closing part is made of polycarbonate of 2 mm.

**Distinctive features:**

- installed additionally to kits of CB functional units;
- installation of back closing part requires mandatory installation of R5D2 additional plate over circuit breaker.

**Scope of supply:**

- segregation kit, mounting accessories.

### For ACB SENTRON 3WL/3WT series

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code	
					front closing part	back closing part
3WL11	fixed	3	600	600	R5FRC1V61122	–
	withdrawable				R5FRC1V61522	R5FRC1V61522
3WL12	fixed		800		R5FRC1V81125	–
	withdrawable				R5FRC1V81525	R5FRC1V81525
3WL13	fixed		1000		R5FRC1V11127	–
	withdrawable				R5FRC1V11527	R5FRC1V11527
3WT11	fixed		600		R5FRC1V61121A	–
	withdrawable				R5FRC1V61522A	R5FRC1V61522A
3WT12	fixed		800		R5FRC1V81125A	–
	withdrawable				R5FRC1V81525A	R5FRC1V81525A

### For ACB Masterpact NW/NT series

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code	
					front closing part	back closing part
Masterpact NW08 – NW25	fixed	3	600	600	R5FRC3V61123	–
	withdrawable				R5FRC3V61523	R5FRC3V61523
Masterpact NW32 – NW40	fixed		800		R5FRC3V81125	–
	withdrawable				R5FRC3V81525	R5FRC3V81525
Masterpact NW63	fixed		1000		R5FRC3V11127	–
	withdrawable				R5FRC3V11527	R5FRC3V11527
Masterpact NT06 – NT16	fixed		600		R5FRC3V61121	–
	withdrawable				R5FRC3V61521	R5FRC3V61521

For ACB Emax E series

CB series	CB version	Number of poles	Enclosure width, mm	Front panel height, mm	Code	
					front closing part	back closing part
Emax E1.2	fixed	3	600	600	R5FRC2V61121	—
	withdrawable				R5FRC2V61521	
Emax E2.2	fixed		R5FRC2V61123		—	
	withdrawable		R5FRC2V61523			
Emax E4.2	fixed		1000		R5FRC2V81125	—
	withdrawable				R5FRC2V81525	
Emax E6.2	fixed		600		R5FRC2V11527	—
	withdrawable				R5FRC2V11127	

Horizontal mounting plate



- Purpose:**
- installation of ACB, separation arrangement.
- Material:**
- galvanized steel with thickness of 2 mm.
- Distinctive features:**
- R5PD\* rail kit is required for plate installation.
- Scope of supply:**
- plate, mounting accessories.

Enclosure width, mm	Code
600	R5D260
800	R5D280
1000	R5D2100

## Functional units with separation elements (up to 4b) for ACB (front access)


**Purpose:**

- installation of ACB, access restriction.

**Material:**

- external door is made of painted steel with thickness of 2 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

**Distinctive features:**

- for installation of kit (front access), enclosure with a width of 600 mm and external cable compartment with a width of 300 mm in a line are required;
- R5PD\* rail kit and installed kit of R5MVE\*M intermediate depth uprights are required for mounting of CB mounting plate;
- R5PD\* rail kit is required for installation of horizontal closing part of kit (front access) in the cable compartment;
- to provide IP degree mandatory installation of R5TOEM\* ledge is required.

**Scope of supply:**

- external door with locks for a square key, hinges, horizontal mounting plate, kit of closing parts, mounting accessories.

CB series	CB version	Enclosure depth, mm	External partial door height, mm	Code	
3WT11	withdrawable	600	600	R5PKEB1V61522AF16	
		800		R5PKEB1V61522AF18	
	fixed	600		R5PKEB1V61122AF16	
		800		R5PKEB1V61122AF18	
Masterpact NW08 – NW25	withdrawable	600	600	R5PKEB3V61523F16	
800		R5PKEB3V61523F18			
Masterpact NT06 – NT16		600	500	R5PKEB3V61521F16	
		800		R5PKEB3V61521F18	
Masterpact NW08 – NW25	fixed	600	600	R5PKEB3V61123F16	
800		R5PKEB3V61123F18			
Masterpact NT06 – NT16		600	500	R5PKEB3V61121F16	
		800		R5PKEB3V61121F18	
Emax E1.2	withdrawable	600	500	R5PKEB2V61521F16	
		800		R5PKEB2V61521F18	
Emax E1.2	fixed	600	500	R5PKEB2V61121F16	
		800		R5PKEB2V61121F18	
Emax E2.2		fixed	600	600	–
			800		–
	withdrawable	600	–		
		800	–		

## Functional units with separation elements (up to 4b) for ACB (front and rear access)



### Purpose:

- installation of ACB, access restriction.

### Material:

- external door is made of painted steel with thickness of 2 mm, RAL 7035;
- mounting plate is made of galvanized steel with thickness of 2 mm.

### Distinctive features:

- enclosure with a width of 600 mm and depth of 400 mm as well as cable compartment with a depth of 600 or 800 mm, "back-to-back", are required for installation of kit (front and rear access);
- R5PD\* rail kit is required for installation of CB mounting plate;
- three R5PD\* rail kits are required for installation of closing parts of kit (front and rear access) in the cable compartment;
- to provide IP degree mandatory installation of R5TOEM\* ledge is required.

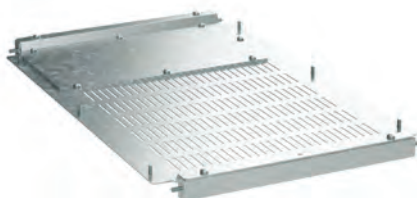
### Scope of supply:

- external door with locks for a square key, hinges, horizontal mounting plate, kit of closing parts, mounting accessories.

CB series	CB version	Enclosure depth, mm	External partial door height, mm	Code	
3WT11	withdrawable	600	600	R5PKEB1V61522AF26	
		800		R5PKEB1V61522AF28	
	fixed	600		R5PKEB1V61122AF26	
		800		R5PKEB1V61122AF28	
Masterpact NW08 – NW25	withdrawable	600	600	R5PKEB3V61523F26	
800		R5PKEB3V61523F28			
Masterpact NT06 – NT16		600	500	R5PKEB3V61521F26	
		800		R5PKEB3V61521F28	
Masterpact NW08 – NW25	fixed	600	600	R5PKEB3V61123F26	
800		R5PKEB3V61123F28			
Masterpact NT06 – NT16		600	500	R5PKEB3V61121F26	
		800		R5PKEB3V61121F28	
Emax E1.2	withdrawable	600	500	R5PKEB2V61521F26	
		800		R5PKEB2V61521F28	
Emax E1.2	fixed	600	500	R5PKEB2V61121F26	
		800		R5PKEB2V61121F28	
Emax E2.2		fixed	600	600	R5PKEB2V61123F26
			800		R5PKEB2V61123F28
	withdrawable	600	R5PKEB2V61523F26		
		800	R5PKEB2V61523F28		



## Horizontal busbar divider for functional units with separation elements (up to 4b) for ACB (front access)



**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- has perforation for effective heat extraction;
- R5PD\* rail kit is required for divider installation;
- through bus hole can be closed with end cover.

**Scope of supply:**

- divider, through end cover, mounting accessories.

Enclosure depth, mm	Code
600	R5SBBFS600
800	R5SBBFS800

## Horizontal busbar divider for functional units with separation elements (up to 4b) for ACB (front and rear access)



**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

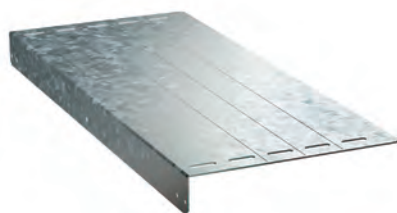
- has perforation for effective heat extraction;
- R5PD\* rail kit is required for divider installation;
- mandatory installation of R5D6 compensation plate is required for compensation for distance and arrangement of through bus hole.

**Scope of supply:**

- 2 dividers, mounting accessories.

Enclosure depth, mm	Code
600	R5SBBF600
800	R5SBBF800

## Compensation plate for R5SBBF\* busbar divider



**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

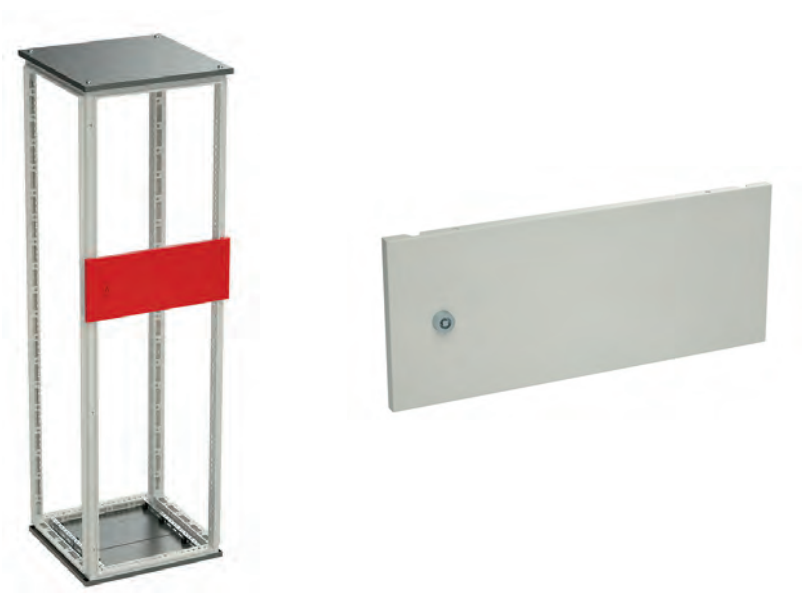
- plate consists of two parts, it is a sliding plate;
- has pre-perforation for arrangement of through bus hole.

**Scope of supply:**

- fixed and moving plate parts, mounting accessories.

Enclosure width, mm	Code
600	R5D6

External blank partial door



- Purpose:**
- access restriction.
- Material:**
- painted steel with thickness of 2 mm, RAL 7035.
- Distinctive features:**
- hinge installation is performed without additional machining on R5KMN\* internal perforation;
  - locks have an insert for a square key.
- Scope of supply:**
- door, lock with counterpart, hinges, mounting accessories.

Width, mm	Height, mm	Code
400	150	R5CPMEM4150
	200	R5CPMEM4200
	250	R5CPMEM4250
	300	R5CPMEM4300
	350	R5CPMEM4350
	400	R5CPMEM4400
	450	R5CPMEM4450
	500	R5CPMEM4500
	550	R5CPMEM4550
	600	R5CPMEM4600
	650	R5CPMEM4650
	700	R5CPMEM4700
	750	R5CPMEM4750
	800	R5CPMEM4800
	850	R5CPMEM4850
600	150	R5CPMEM6150
	200	R5CPMEM6200
	250	R5CPMEM6250
	300	R5CPMEM6300
	350	R5CPMEM6350
	400	R5CPMEM6400
	450	R5CPMEM6450
	500	R5CPMEM6500
	550	R5CPMEM6550
	600	R5CPMEM6600
	650	R5CPMEM6650
	700	R5CPMEM6700
	750	R5CPMEM6750
	800	R5CPMEM6800
	850	R5CPMEM6850

Width, mm	Height, mm	Code
800	150	R5CPMEM8150
	200	R5CPMEM8200
	250	R5CPMEM8250
	300	R5CPMEM8300
	350	R5CPMEM8350
	400	R5CPMEM8400
	450	R5CPMEM8450
	500	R5CPMEM8500
	550	R5CPMEM8550
	600	R5CPMEM8600
	650	R5CPMEM8650
	700	R5CPMEM8700
	750	R5CPMEM8750
	800	R5CPMEM8800
	850	R5CPMEM8850
1000	150	R5CPMEM10150
	200	R5CPMEM10200
	250	R5CPMEM10250
	300	R5CPMEM10300
	350	R5CPMEM10350
	400	R5CPMEM10400
	450	R5CPMEM10450
	500	R5CPMEM10500
	550	R5CPMEM10550
	600	R5CPMEM10600
	650	R5CPMEM10650
	700	R5CPMEM10700
	750	R5CPMEM10750
	800	R5CPMEM10800
	850	R5CPMEM10850

## External perforated panels



### Purpose:

- access restriction, heat extraction.

### Material:

- painted steel with thickness of 1.5 mm, RAL 7035.

### Distinctive features:

- installed in the enclosure upper and lower part;
- have perforation for effective heat extraction;
- panel installation is performed with screws;
- panels are designed only for installation in the upper and lower enclosure parts.

### Scope of supply:

- 2 panels in accordance with selected standard series, mounting accessories.

Enclosure width, mm	Upper panel height, mm	Lower panel height, mm	Code
400	300	100	R5CPFAM431
		300	R5CPFAM433
600		100	R5CPFAM631
		300	R5CPFAM633
800		100	R5CPFAM831
		300	R5CPFAM833
1000		100	R5CPFAM1031
		300	R5CPFAM1033

## External blank partial panels



### Purpose:

- access restriction, heat extraction.

### Material:

- painted steel with thickness of 1.5 mm, RAL 7035.

### Distinctive features:

- installed in the enclosure upper and lower part;
- have perforation for effective heat extraction;
- panel installation is performed with screws;
- panels are designed only for installation in the upper and lower enclosure parts.

### Scope of supply:

- 2 panels in accordance with selected standard series, mounting accessories.

Enclosure width, mm	Height, mm	Code
400	100	R5CPFEM4100
	150	R5CPFEM4150
	200	R5CPFEM4200
	250	R5CPFEM4250
	300	R5CPFEM4300
	350	R5CPFEM4350
	400	R5CPFEM4400
	450	R5CPFEM4450
	500	R5CPFEM4500
	550	R5CPFEM4550
	600	R5CPFEM4600

Enclosure width, mm	Height, mm	Code
600	100	R5CPFEM6100
	150	R5CPFEM6150
	200	R5CPFEM6200
	250	R5CPFEM6250
	300	R5CPFEM6300
	350	R5CPFEM6350
	400	R5CPFEM6400
	450	R5CPFEM6450
	500	R5CPFEM6500
	550	R5CPFEM6550
	600	R5CPFEM6600
800	100	R5CPFEM8100
	150	R5CPFEM8150
	200	R5CPFEM8200
	250	R5CPFEM8250
	300	R5CPFEM8300
	350	R5CPFEM8350
	400	R5CPFEM8400
	450	R5CPFEM8450
	500	R5CPFEM8500
	550	R5CPFEM8550
	600	R5CPFEM8600
1000	100	R5CPFEM10100
	150	R5CPFEM10150
	200	R5CPFEM10200
	250	R5CPFEM10250
	300	R5CPFEM10300
	350	R5CPFEM10350
	400	R5CPFEM10400
	450	R5CPFEM10450
	500	R5CPFEM10500
	550	R5CPFEM10550
	600	R5CPFEM10600

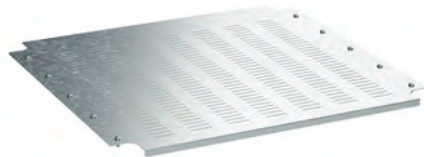
External panels



- Purpose:**
- access restriction.
- Material:**
- painted steel with thickness of 1.5 mm, RAL 7035.
- Distinctive features:**
- installed in the enclosure upper and lower part;
  - panel installation is performed with screws;
  - panels are designed only for installation in the upper and lower enclosure parts.
- Scope of supply:**
- 2 panels in accordance with selected standard series, mounting accessories.

Enclosure width, mm	Upper panel height, mm	Lower panel height, mm	Code
400	300	100	R5CPFBM431
		300	R5CPFBM433
600		100	R5CPFBM631
		300	R5CPFBM633
800		100	R5CPFBM831
		300	R5CPFBM833
1000		100	R5CPFBM1031
		300	R5CPFBM1033

## Horizontal busbar compartment divider (front access)


**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

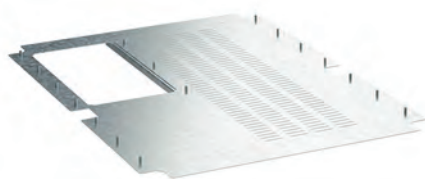
- has perforation for effective heat extraction;
- R5PD\* rail kit is required for divider installation.

**Scope of supply:**

- divider, mounting accessories.

Enclosure width, mm	Enclosure depth, mm	Code
600	400	R5SBB64
	600	R5SBB66
	800	R5SBB68
800	400	R5SBB84
	600	R5SBB86
	800	R5SBB88

## Horizontal busbar compartment divider (front and rear access)


**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- has perforation for effective heat extraction;
- divider has a through hole for bus downdrop;
- R5PD\* rail kit is required for divider installation;
- for "back-to-back" enclosures divider kit consists of two parts and requires two R5PD\* rail kits for installation.

**Scope of supply:**

- divider, mounting accessories.

Enclosure width, mm	Enclosure depth, mm	Code	
600	400+600	R5SBBD646	—
	400+800	R5SBBD648	
	800	—	R5SBBD80



## Horizontal busbar compartment divider for external cable compartment



**Purpose:**

- separation arrangement.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

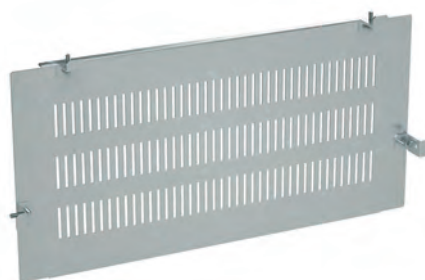
- divider is designed for installation in the external feeder up to 630 A;
- has perforation for effective heat extraction;
- has additional pre-perforation for bus dropdown;
- R5PD\* rail kit is required for divider installation.

**Scope of supply:**

- divider, mounting accessories.

Enclosure width, mm	Depth, mm	Code
300	400	R5SBC34
	600	R5SBC36
	800	R5SBC38
400	400	R5SBC44
	600	R5SBC46
	800	R5SBC48
600	400	R5SBC64
	600	R5SBC66
	800	R5SBC68

## Internal perforated panel



**Purpose:**

- separation arrangement, access restriction.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

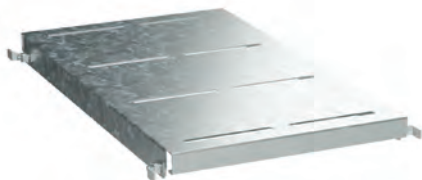
- has perforation for effective heat extraction;
- installed together with R5SBB\*, R5SBC\*, R5SBBB\* dividers.

**Scope of supply:**

- 1 panel, mounting accessories.

Width, mm	Height, mm	Code
300	300	R5SBBF330
400		R5SBBF430
600		R5SBBF630
800		R5SBBF830

## Supporting plate of external cable compartment


**Purpose:**

- equipment installation.

**Material:**

- galvanized steel with thickness of 2 mm.

**Distinctive features:**

- plate is designed for installation in the external feeder;
- R5PD\* rail kit is required for plate installation.

**Scope of supply:**

- plate, mounting accessories.

Width, mm	Depth, mm	Code
300	600	R5D5360
	800	R5D5380
400	600	R5D5460
	800	R5D5480

## Internal perforated plastic panels


**Purpose:**

- separation arrangement.

**Material:**

- transparent polycarbonate of 2 mm.

**Distinctive features:**

- designed for visual assessment of current-carrying parts/equipment;
- installed in the enclosure upper and lower part;
- have perforation for effective heat extraction.

**Scope of supply:**

- 2 panels in accordance with selected standard series, mounting accessories.

Enclosure width, mm	Upper panel height, mm	Lower panel height, mm	Code
400	300	100	R5CPFAP431
600		300	R5CPFAP433
		100	R5CPFAP631
		300	R5CPFAP633
		100	R5CPFAP831
800		300	R5CPFAP833
1000		100	R5CPFAP1031
		300	R5CPFAP1033

Horizontal busbar divider of relay compartment



- Purpose:**
- separation arrangement.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- relay compartment arrangement between ACB and top distribution busbars;
  - has perforation for effective heat extraction;
  - R5TOE\*M ledge and R5PD\* rail kit are required for divider installation;
  - used with R5RCB\* plate of relay compartment.
- Scope of supply:**
- divider, mounting accessories.

Enclosure dimensions, mm		Code
width	depth	
600	X	R5SBA60
	400+X	R5SBA64
800	X	R5SBA80
	400+X	R5SBA84
1000	X	—
	400+X	R5SBA104

Mounting plate of relay compartment



- Purpose:**
- separation arrangement, equipment installation, access restriction.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- relay compartment arrangement between ACB and top distribution busbars;
  - plate height is 360 mm;
  - R5SBA\* mounted divider and R5PD\* rail kit are required for plate installation.
- Scope of supply:**
- plate, mounting accessories.

Enclosure width, mm	Code
600	R5RCB60
800	R5RCB80
1000	R5RCB100

## Panel of blind compartment


**Purpose:**

- separation arrangement, access restriction.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- access restriction to current-carrying parts;
- two R5PD\* rail kits are required for divider installation.

**Scope of supply:**

- panel, mounting accessories.

Enclosure width, mm	Enclosure height, mm	Code
400	100	R5CPB410
	150	R5CPB415
	200	R5CPB420
	250	R5CPB425
	300	R5CPB430
	350	R5CPB435
	400	R5CPB440
	500	R5CPB450
	600	R5CPB460
600	100	R5CPB610
	150	R5CPB615
	200	R5CPB620
	250	R5CPB625
	300	R5CPB630
	350	R5CPB635
	400	R5CPB640
	500	R5CPB650
	600	R5CPB660
800	100	R5CPB810
	150	R5CPB815
	200	R5CPB820
	250	R5CPB825
	300	R5CPB830
	350	R5CPB835
	400	R5CPB840
	500	R5CPB850
	600	R5CPB860
1000	100	R5CPB1010
	150	R5CPB1015
	200	R5CPB1020
	250	R5CPB1025
	300	R5CPB1030
	350	R5CPB1035
	400	R5CPB1040
	500	R5CPB1050
	600	R5CPB1060

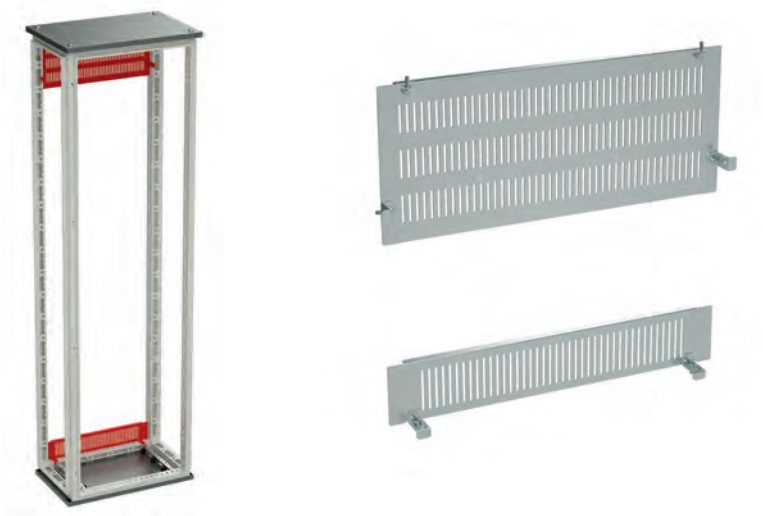
Plastic panel of blind compartment



- Purpose:**
- separation arrangement, access restriction.
- Material:**
- transparent polycarbonate of 2 mm.
- Distinctive features:**
- designed for visual assessment of current-carrying parts/equipment;
  - installation is performed on enclosure uprights.
- Scope of supply:**
- divider, mounting accessories.

Width, mm	Height, mm	Code
400	100	R5CPL410
	150	R5CPL415
	200	R5CPL420
	250	R5CPL425
	300	R5CPL430
	350	R5CPL435
	400	R5CPL440
	450	R5CPL445
	500	R5CPL450
	550	R5CPL455
	600	R5CPL460
600	100	R5CPL610
	150	R5CPL615
	200	R5CPL620
	250	R5CPL625
	300	R5CPL630
	350	R5CPL635
	400	R5CPL640
	450	R5CPL645
	500	R5CPL650
	550	R5CPL655
	600	R5CPL660
800	100	R5CPL810
	150	R5CPL815
	200	R5CPL820
	250	R5CPL825
	300	R5CPL830
	350	R5CPL835
	400	R5CPL840
	450	R5CPL845
	500	R5CPL850
	550	R5CPL855
	600	R5CPL860
1000	100	R5CPL1010
	150	R5CPL1015
	200	R5CPL1020
	250	R5CPL1025
	300	R5CPL1030
	350	R5CPL1035
	400	R5CPL1040
	450	R5CPL1045
	500	R5CPL1050
	550	R5CPL1055
	600	R5CPL1060

Internal rear perforated panels



**Purpose:**

- separation arrangement, access restriction.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- installed in the enclosure upper and lower part;
- have perforation for effective heat extraction;
- installed with R5SBPW\* dividers.

**Scope of supply:**

- 2 panels in accordance with selected standard series, mounting accessories.

Enclosure width, mm	Upper panel height, mm	Lower panel height, mm	Code
300	300	100	R5SBPF331
		300	R5SBPF333
400		100	R5SBPF431
		300	R5SBPF433
600		100	R5SBPF631
		300	R5SBPF633
800		100	R5SBPF831
		300	R5SBPF833
1000		100	R5SBPF1031
		300	R5SBPF1033

Internal rear panel



- Purpose:**
- separation arrangement, access restriction.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Distinctive features:**
- access restriction to current-carrying parts.
- Scope of supply:**
- panel, mounting accessories.

Enclosure width, mm	Panel height, mm	Code
400	400	R5SBPW44
	450	R5SBPW445
	500	R5SBPW45
	550	R5SBPW455
	600	R5SBPW46
600	400	R5SBPW64
	450	R5SBPW645
	500	R5SBPW65
	550	R5SBPW655
	600	R5SBPW66
800	400	R5SBPW84
	450	R5SBPW845
	500	R5SBPW85
	550	R5SBPW855
	600	R5SBPW86
1000	400	R5SBPW104
	450	R5SBPW1045
	500	R5SBPW105
	550	R5SBPW1055
	600	R5SBPW106



## Internal rear panel of external cable compartment

**Purpose:**

- separation arrangement, access restriction.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- it is necessary to install R5SBPF\* panel kit (300+300 mm) for full heightwise closing.

**Scope of supply:**

- panel, mounting accessories.

Enclosure width, mm	Enclosure height, mm	Code
300	1800	R5SBPW183
400		R5SBPW184
300	2000	R5SBPW203
400		R5SBPW204
300	2200	R5SBPW223
400		R5SBPW224

## Side bottom perforated divider

**Purpose:**

- separation arrangement, access restriction.

**Material:**

- galvanized steel with thickness of 1.5 mm.

**Distinctive features:**

- has perforation for effective heat extraction.

**Scope of supply:**

- divider, mounting accessories.

Height, mm	Depth, mm	Code
100	400	R5SWF41
	600	R5SWF61
	800	R5SWF81
300	400	R5SWF43
	600	R5SWF63
	800	R5SWF83

Side divider



- Purpose:**
- separation arrangement, access restriction.
- Material:**
- galvanized steel with thickness of 1.5 mm.
- Scope of supply:**
- divider, mounting accessories.

Partition wall height, mm	Enclosure depth, mm	Code
400	400	R5SWM44
	600	R5SWM46
	800	R5SWM48
450	400	R5SWM454
	600	R5SWM456
	800	R5SWM458
500	400	R5SWM54
	600	R5SWM56
	800	R5SWM58
550	400	R5SWM554
	600	R5SWM556
	800	R5SWM558
600	400	R5SWM64
	600	R5SWM66
	800	R5SWM68

## Plastic side divider


**Purpose:**

- separation arrangement, access restriction.

**Material:**

- transparent polycarbonate of 2 mm.

**Distinctive features:**

- designed for visual assessment of current-carrying parts/equipment;
- installed in the enclosure upper and lower part.

**Scope of supply:**

- divider, mounting accessories.

Height, mm	Depth, mm	Code
600	400	R5SWP64
	600	R5SWP66
	800	R5SWP68

## Plastic side busbar divider


**Purpose:**

- separation arrangement, access restriction.

**Material:**

- transparent polycarbonate of 2 mm.

**Distinctive features:**

- used in case of flatwise attachment of PE bus to enclosure;
- designed for visual assessment of current-carrying parts/equipment.

**Scope of supply:**

- divider, mounting accessories.

Height, mm	Depth, mm	Code
300	400	R5SWC34
	600	R5SWC36
	800	R5SWC38
600	400	R5SWC64
	600	R5SWC66
	800	R5SWC68

## Top busbar support



### Purpose:

- formation of distribution busbars.

### Distinctive features:

- rated operational current is up to 3200 A; maximum initial short-circuit current is up to 200 kA; allowable through short-circuit current is 85 kA/1 s (action);
- first and last busbar clamps shall be installed at the distance of not more than 1/4 of the minimum distance between busbar clamps (example: if the estimated distance between busbar clamps is 840 mm, the distance from the bus edge to the first and last busbar clamps shall not exceed 210 mm);
- it is required to perform installation of poles successively, because access to mounting studs of internal poles may be obstructed at the minimum distance between phases;
- it is required to insulate studs using the R5BSEV02 tube at the minimum distance between phases;
- it is required to use the dual aluminum profile in bus configurations of 2x80x10 or 3x50x10 per phase and more.

### Scope of supply:

- profile, busbar clamps, mounting accessories.

## Profile for busbar clamps



### Purpose:

- formation of busbars.

### Material:

- non-magnetic aluminum alloy.

### Distinctive features:

- has perforation with pitch of 12.5 mm.

### Scope of supply:

- profile of 2 meters.

Description	Code
Aluminum profile for busbar clamps	R5BSEV01

## Combined busbar clamp



### Purpose:

- formation of busbars, attachment of flat copper or aluminum buses.

### Material:

- fiberglass-reinforced polyamide.

### Distinctive features:

- bus is installed on the edge;
- plastic being used is self-extinguishing according to UL94V0.

### Scope of supply:

- kit of holders, studs, mounting accessories.

Number of poles	Number of insulators	Number of studs	Number of buses per phase	Bus thickness, mm	Bus height, mm	Minimum distance between phases, mm	Code
3	6	4	1-2	5	30-120	50	R5BSEV2/5T
4	8	5	1-2	5	30-120	50	R5BSEV2/5TN
3	6	4	1-4	5	30-120	75	R5BSEV4/5T
4	8	5	1-4	5	30-120	75	R5BSEV4/5TN
3	6	4	1	10	30-120	50	R5BSEV1/10T
4	8	5	1	10	30-120	50	R5BSEV1/10TN
3	6	4	1-2	10	30-120	75	R5BSEV2/10T
4	8	5	1-2	10	30-120	75	R5BSEV2/10TN
3	6	4	1-3	10	30-120	100	R5BSEV3/10T
4	8	5	1-3	10	30-120	100	R5BSEV3/10TN

## Stud insulator


**Purpose:**

- insulation of studs at the minimum distance between phases.

**Material:**

- plastic.

**Scope of supply:**

- 100 pcs.

Description	Code
Dielectric stud insulator	R5BSEV02

## Profile fastener


**Purpose:**

- profile installation to the enclosure frame.

**Material:**

- steel.

**Scope of supply:**

- 10 pcs.

Description	Code
For the horizontal bus system	R5BSEV03
For the vertical bus system	R5BSEV04

## Flat busbar support


**Purpose:**

- formation of distribution busbars.

**Distinctive features:**

- rated operational current is up to 1600 A;
- maximum initial short-circuit current is up to 110 kA;
- allowable through short-circuit current is 50 kA/1 s (action);
- first and last busbar clamps shall be installed at the distance of not more than 1/4 of the minimum distance between busbar clamps (example: if the estimated distance between busbar clamps is 840 mm, the distance from the bus edge to the first and last busbar clamps shall not exceed 210 mm);

**Scope of supply:**

- profile, busbar clamps, mounting accessories.

## Support profile for busbar clamps


**Purpose:**

- formation of busbars.

**Material:**

- reinforced PVC.

**Distinctive features:**

- plastic being used is self-extinguishing according to UL94V0. Maximum temperature, +85 °C.

**Scope of supply:**

- profile of 2 meters, mounting accessories.

Description	Code
Support profile for busbar clamps	R5BSFV

## Combined busbar clamp



**Purpose:**

- formation of busbars.

**Material:**

- reinforced PVC.

**Distinctive features:**

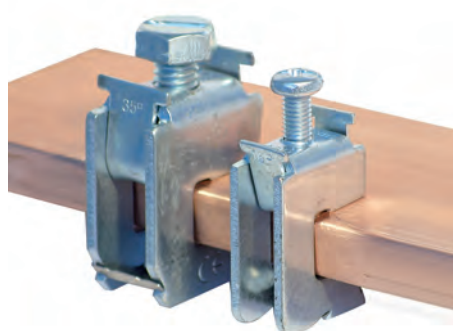
- plastic being used is self-extinguishing according to UL94V0. Maximum temperature, +85 °C.

**Scope of supply:**

- profile of 2 meters, mounting accessories.

Number of poles	Pole spacing, mm	Number of busbar clamps in a kit, pcs		Bus thickness, mm	Bus width, mm	Code
		of L type	of T type			
3	20	2	2	5–10	30–100	R5BSFVLT3
4		2	3			R5BSFVLT4
3	≥ 40	6	–			R5BSFVL3
4		8	–			R5BSFVL4

## Cable bus terminal



**Purpose:**

- cable switching to a current-carrying bus.

**Material:**

- galvanized steel.

**Distinctive features:**

- installed on a current-carrying bus with thickness of 5 to 10 mm;
- switches cables with section of 1.5 to 120 mm<sup>2</sup>.

**Scope of supply:**

- terminal.

Bus thickness, mm	Cable section, mm <sup>2</sup>	Tightening torque, Nm	Code
5	1.5–16	3	R5BC0516
	16–35	6–8	R5BC0535
	35–70	10–12	R5BC0570
	70–120	12–15	R5BC0512
10	1.5–16	3	R5BC1016
	16–35	6–8	R5BC1035
	35–70	10–12	R5BC1070
	70–120	12–15	R5BC1012

Bracket for ground bus



- Purpose:**
- formation of busbars.
- Material:**
- galvanized steel with thickness of 2 mm.
- Distinctive features:**
- plastic being used is self-extinguishing according to UL94V0.
  - Maximum temperature, +85 °C.
- Scope of supply:**
- 1 bracket, mounting accessories.

Description	Code
attachment bracket of PE bus	R5K4

Arc protection kit



- Purpose:**
- formation of busbars.
- Material:**
- Durostone.
- Distinctive features:**
- kit is designed for prevention of arc spreading;
  - kit is installed on R5BSEV01 aluminum profiles.
- Scope of supply:**
- 2 pcs.

Max. current for R5AP, A	Design for R5AP	Code
1600	3P	R5AP16L
	3P+N	R5AP16LN
2500	3P	R5AP25L
	3P+N	R5AP25LN
4000	3P	R5AP40L
	3P+N	R5AP40LN
5000	3P	R5AP50L
	3P+N	R5AP50LN
6300	3P	R5AP63L
	3P+N	R5AP63LN



## RAM group technical information

### Recommendations on busbar clamp installation

Edgewise installation of buses with thickness of 5 mm

1 bus per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x5	40x5	50x5	63x5	80x5	100x5	120x5
1	53	25	50	225	265	295	330	375	415	465
			75	280	325	360	405	455	510	570
			100	320	375	415	470	530	590	660
			125	360	415	465	525	590	660	740
	74	35	50	160	190	210	235	265	300	335
			75	200	230	260	290	325	365	385
			100	230	265	300	335	380	425	475
			125	260	300	335	375	425	475	530
	110	50	50	110	125	140	160	180	200	225
			75	135	155	175	195	220	245	285
			100	155	180	200	225	255	285	315
			125	175	200	225	250	285	315	355
	143	65	50	–	–	110	120	135	155	170
			75	–	–	130	150	170	190	210
			100	–	–	155	170	195	220	245
			–	–	170	195	220	245	275	
Rated current of copper flat buses according to DIN 43671			T=65 °C	379	482	583	718	885	1080	1300
			T=85 °C	502	639	772	951	1173	1431	1723

2 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x5	40x5	50x5	63x5	80x5	100x5	120x5
2	53	25	50	220	270	320	375	455	540	645
			75	240	295	345	410	490	580	690
			100	245	310	365	430	515	610	730
			125	245	310	375	450	540	640	760
	74	35	50	160	195	230	270	325	380	400
			75	170	210	250	295	350	420	450
			100	175	220	260	310	370	440	500
			125	175	220	270	325	385	460	540
	110	50	50	105	130	150	180	215	260	310
			75	115	140	165	195	235	280	330
			100	115	145	175	205	250	295	350
			125	115	150	180	215	260	305	365
	143	65	50	–	100	115	140	165	200	240
			75	–	100	125	150	180	215	255
			100	–	100	135	160	190	225	270
			125	–	100	135	165	200	235	280
Rated current of copper flat buses according to DIN 43671			T=65 °C	672	836	994	1197	1450	1730	2022
			T=85 °C	890	1108	1317	1586	1921	2292	2679

## 3 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x5	40x5	50x5	63x5	80x5	100x5	120x5
3	53	25	75	285	345	405	475	570	675	815
			100	285	355	425	500	600	710	860
			125	285	355	425	510	620	735	910
			150	285	355	425	510	620	755	945
	74	35	75	200	245	290	340	375	380	380
			100	200	255	300	360	405	415	445
			125	200	255	300	365	445	525	625
			150	200	255	300	365	450	540	645
	110	50	75	135	165	195	230	275	325	345
			100	135	170	200	240	285	340	355
			125	135	170	200	245	295	355	360
			150	135	170	200	245	300	365	365
	143	65	75	105	125	150	175	210	245	255
			100	105	130	155	185	220	260	290
			125	105	130	155	190	230	270	320
			150	105	130	155	190	230	280	330
	165	75	75	–	110	130	150	175	185	195
			100	–	110	135	160	190	225	235
			125	–	110	135	165	195	235	265
			150	–	110	135	165	200	240	285
Rated current of copper flat buses according to DIN 43671			T=65 °C	896	1090	1260	1494	1750	2050	2381
			T=85 °C	1187	1444	1670	1980	2319	2716	3155

## 4 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x5	40x5	50x5	63x5	80x5	100x5	120x5
4	53	25	75	330	400	465	545	650	770	960
			100	330	410	485	575	685	820	1030
			125	330	410	485	585	710	860	1080
			150	330	410	485	585	710	890	1120
	74	35	75	235	285	330	370	375	380	380
			100	235	295	350	390	405	415	445
			125	235	295	350	420	470	600	710
			150	235	295	350	420	510	615	730
	110	50	75	155	190	220	260	310	345	345
			100	160	195	235	275	330	350	355
			125	160	195	235	280	340	360	360
			150	160	195	235	280	340	365	365
	143	65	75	120	145	170	200	230	245	255
			100	120	150	180	210	250	280	290
			125	120	150	180	215	260	310	320
			150	120	150	180	215	260	315	340
	165	75	75	105	125	145	165	170	180	200
			100	105	130	155	185	215	230	235
			125	105	130	155	185	225	260	270
			150	105	130	155	185	225	275	295
Rated current of copper flat buses according to DIN 43671			T=65 °C	1003	1220	1411	1673	1960	2296	2666
			T=85 °C	1329	1617	1870	2217	2597	3042	3532

## Edgewise installation of buses with thickness of 10 mm

### 1 bus per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x10	40x10	50x10	60x10	80x10	100x10	120x10
1	53	25	50	455	530	545	545	545	545	545
			100	550	650	720	810	915	1025	1135
			125	560	750	830	940	1055	1200	1370
			150	720	835	935	1050	1210	1410	1605
	74	35	50	325	380	425	480	500	500	500
			100	400	460	520	525	525	525	525
			125	460	530	560	560	560	560	560
			150	520	600	670	750	850	955	1030
	110	50	50	220	255	285	320	335	335	335
			100	265	310	350	390	440	440	440
			125	310	360	400	450	495	495	495
			150	350	400	450	505	505	505	505
	143	65	50	170	195	195	195	195	200	200
			100	205	240	265	295	295	275	275
			125	240	275	310	345	360	375	375
			150	260	310	345	390	410	425	425
Rated current of copper flat buses according to DIN 43671			T=65 °C	573	715	852	985	1240	1490	1740
			T=85 °C	756	944	1129	1305	1643	1974	2306

### 2 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x10	40x10	50x10	60x10	80x10	100x10	120x10
2	53	25	75	530	620	740	860	1020	1230	1230
			100	570	680	790	920	1050	1300	1300
			125	590	710	820	960	1100	1350	1350
			150	590	720	840	1000	1200	1400	1400
	74	35	75	380	460	510	510	510	520	520
			100	400	480	525	530	530	535	535
			125	425	500	540	545	545	555	560
			150	425	510	570	630	630	640	650
	110	50	75	255	310	350	385	395	410	435
			100	275	330	380	440	450	470	490
			125	280	340	390	460	495	495	495
			150	285	350	410	480	495	505	505
	143	65	75	190	220	235	245	255	275	285
			100	215	250	290	310	325	335	345
			125	220	260	305	350	375	385	390
			150	220	270	315	370	420	425	435
	165	75	75	170	170	175	180	190	205	215
			100	180	210	220	235	240	250	265
			125	190	225	265	275	285	305	315
			150	190	225	270	300	315	350	360
	187	85	75	130	130	135	140	150	160	160
			100	155	170	175	180	190	200	205
			125	160	200	215	220	230	230	235
			150	165	205	240	260	270	280	280
Rated current of copper flat buses according to DIN 43671			T=65 °C	986	1230	1510	1720	2110	2480	2860
			T=85 °C	1300	1624	2001	2279	2796	3286	3790

## 3 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x10	40x10	50x10	60x10	80x10	100x10	120x10
3	53	25	100	670	810	930	1050	1300	1300	1300
			125	700	840	975	1150	1200	1400	1400
			150	710	860	1000	1200	1200	1400	1400
			175	710	860	1000	1200	1200	1400	1400
	74	35	100	490	580	585	780	900	1200	1200
			125	505	610	700	810	950	1200	1200
			150	505	615	715	840	975	1200	1200
			175	505	615	715	850	1000	1200	1200
	110	50	100	330	385	450	500	500	505	505
			125	335	410	465	510	510	515	515
			150	340	410	470	520	525	525	525
			175	340	410	480	535	535	535	535
	143	65	100	250	300	345	400	410	420	435
			125	260	310	360	420	470	480	485
			150	260	315	370	435	495	495	495
			175	260	315	370	440	500	500	500
	165	75	100	220	260	300	325	335	350	360
			125	225	270	315	365	385	395	405
			150	225	275	320	375	430	440	445
			175	225	275	320	380	455	480	480
	187	85	100	190	230	245	255	260	275	285
			125	200	240	275	315	320	330	340
			150	200	240	280	330	360	375	380
			175	200	240	280	335	400	410	415
	220	100	100	165	175	180	180	190	200	200
			125	170	205	215	225	230	240	240
			150	170	205	240	270	270	280	280
			175	170	205	240	280	315	325	325
Rated current of copper flat buses according to DIN 43671			T=65 °C	1289	1609	2040	2300	2790	3260	3740
			T=85 °C	1701	2124	2703	3048	3697	4320	4956

## 6 buses per phase

Buses per phase	I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Distance between phases, mm	Maximum distance between busbar clamps, mm						
				30x10	40x10	50x10	60x10	80x10	100x10	120x10
6 (3+3)	53	25	150	710	860	1000	1200	1200	1400	1400
			175	710	860	1000	1200	1200	1400	1400
	74	35	150	505	615	715	850	1000	1200	1200
			175	505	615	715	850	1000	1200	1200
	110	50	150	340	410	520	520	525	525	525
			175	340	410	520	520	525	525	525
	143	65	150	260	315	370	435	495	495	495
			175	260	315	370	435	495	495	495
	165	75	150	225	275	320	375	430	440	445
			175	225	275	320	380	455	480	480
	187	85	150	200	240	280	330	360	375	380
			175	200	240	280	335	400	410	415
	220	100	150	170	205	240	270	280	295	310
			175	170	205	240	270	315	325	325
Rated current of copper flat buses according to DIN 43671			T=65 °C	2255	2815	3569	4024	4881	5704	6543
			T=85 °C	2638	3294	4192	4727	5733	6699	7686

## Flatwise installation of bus

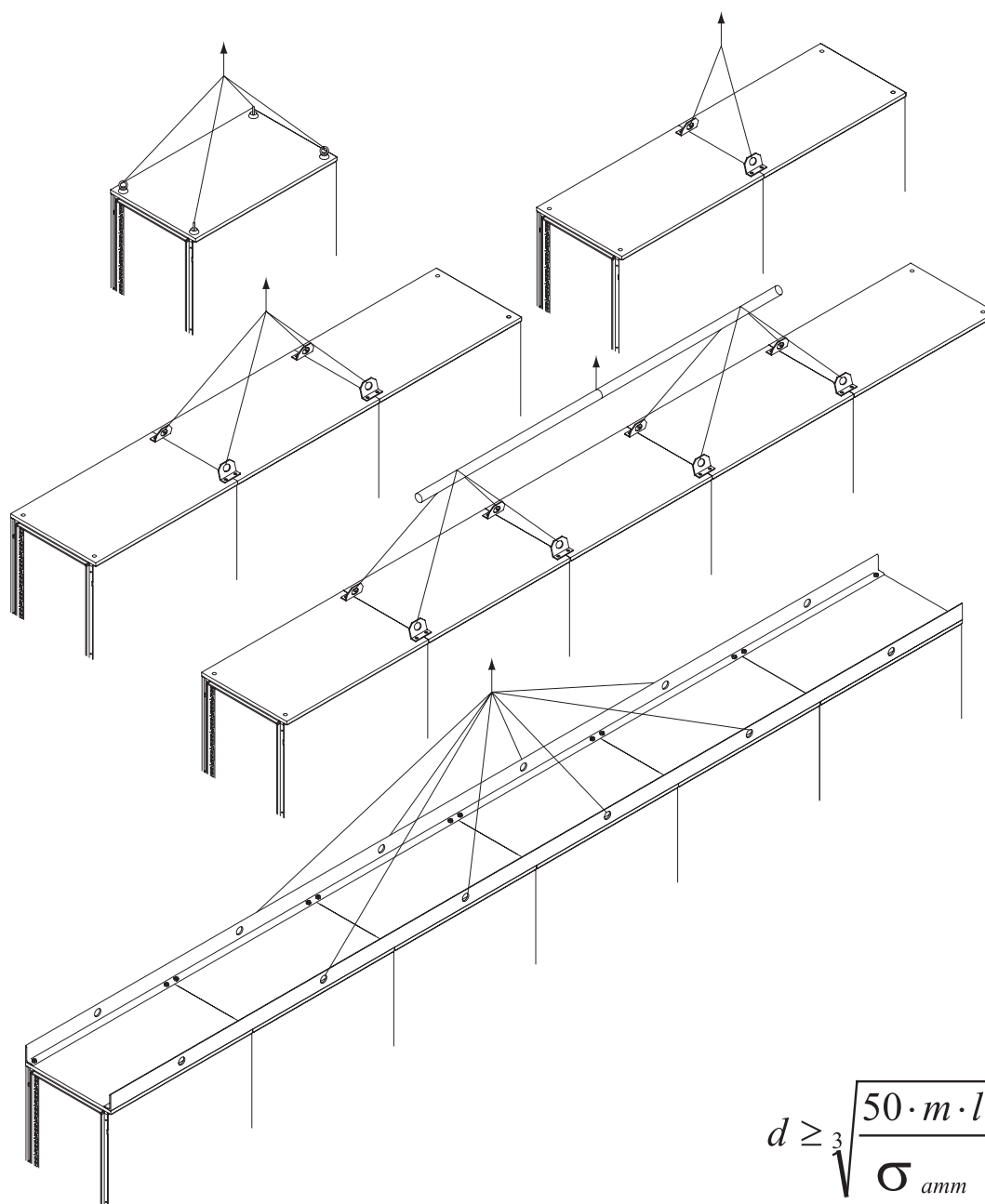
Bus thickness is 5 mm

I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Air distance between buses, mm	Maximum distance between busbar clamps, mm					
			30x5	40x5	50x5	60x5	80x5	100x5
53	25	20	240	290	335	380	480	590
		40	330	380	430	480	570	680
		50	390	425	475	530	625	730
		60	440	480	525	575	675	780
74	35	20	120	150	170	190	240	290
		40	170	190	220	245	295	340
		50	195	200	240	270	320	370
		60	220	225	265	290	345	390
84	40	20	–	115	130	150	190	230
		40	130	150	170	190	230	265
		50	150	160	190	210	250	285
		60	170	180	210	230	265	305
110	50	20	–	–	100	105	110	130
		40	–	–	105	115	130	150
		50	–	100	110	120	145	160
		60	100	110	120	130	155	185
Rated current of copper flat buses according to DIN 43671		T=65 °C	360	457	553	682	814	993
		T=85 °C	476	607	733	903	1079	1316

Bus thickness is 10 mm

I <sub>pk</sub> , kA	I <sub>cw</sub> , kA	Air distance between buses, mm	Maximum distance between busbar clamps, mm					
			30x10	40x10	50x10	60x10	80x10	100x10
53	25	20	240	290	335	380	480	590
		40	330	380	430	480	570	680
		50	390	425	475	530	625	730
		60	440	480	525	575	675	780
74	35	20	120	150	170	190	240	290
		40	170	190	220	245	290	340
		50	195	200	240	270	320	370
		60	220	225	265	290	345	390
84	40	20	–	115	130	150	190	230
		40	130	150	170	190	230	265
		50	150	160	190	210	250	285
		60	170	180	210	225	265	305
110	50	20	–	–	100	100	110	130
		40	–	–	105	110	130	150
		50	–	100	110	115	145	160
		60	100	110	120	130	155	185
Rated current of copper flat buses according to DIN 43671		T=65 °C	544	679	809	935	1140	1370
		T=85 °C	718	896	1072	1239	1511	1816

## Recommendations on transportation of assembled enclosures



$$d \geq \sqrt[3]{\frac{50 \cdot m \cdot l}{\sigma_{amm}}}$$

Diagrams in the figure are indicated for enclosures with uniform distribution of weight all over the width of enclosure assembly being transported.

The indicated formula is used for diameter determination of tube shown in the figure with 5 enclosures.

$d$  is the tube diameter, mm

$m$  is the total weight of structure, mm

$l$  is the distance between attachment points of ropes to the tube, mm

$\sigma_{amm}$  is the rupture strength of used metal

Maximum angle between lifting ropes:  $60^\circ$

Maximum vertical load for each eye bolt: 250 kg

Maximum load during movement at angle of  $45^\circ$ : 125 kg

## Protection standard IP

### Protection against foreign solids, dust

First IP digit (Xx)	Protection type	Testing method layout
0	no protection	–
1	protection against solids with size of $\geq 50$ mm	ball with diameter of 50 mm and standard tracing probe
2	protection against solids with size of $\geq 12.5$ mm	ball with diameter of 12.5 mm and standard tracing probe
3	protection against solids with size of $\geq 2.5$ mm	standard tracing probe (or wire with diameter of 2.5 mm)
4	protection against solids with size of $\geq 1.0$ mm	standard tracing probe (or wire with diameter of 1.0 mm)
5	partial protection against dust	dust chamber (talcum powder circulation)
6	full protection against dust	dust chamber (talcum powder circulation)

### Protection against liquids

Second IP digit (Xx)	Protection type	Testing method layout
0	no protection	–
1	protection against condensation drops falling vertically	watering system in artificial rain chamber
2	protection against drops falling at an angle of up to $15^\circ$	watering system in artificial rain chamber
3	protection against drops falling at an angle of up to $60^\circ$	watering plant with rotating outlet nozzle
4	protection against splashes falling at any angle	watering plant with rotating outlet nozzle
5	protection against sprays falling at any angle	hydraulic pump with hose and final with diameter of 6.3 mm, water flow of 12.5 l/min
6	protection against dynamic force of water flows (sea wave)	hydraulic pump with hose and final with diameter of 12.5 mm, water flow of 100 l/min
7	protection against water ingress during submersion at a certain depth and time	submersion into the bath with water layer of 1 m
8	protection against water in case of limited submersion time at a certain depth	testing is according to the procedure agreed with customer and final consumer



Code	Page	Code	Page	Code	Page	Code	Page
CM230600	22	R5CE213	20	R5CPFAP1033	69	R5CPL1010	72
CM230800	22	R5CE214	20	R5CPFAP431	69	R5CPL1015	72
R5A07	24	R5CE219	20	R5CPFAP433	69	R5CPL1020	72
R5A21	24	R5CE230	20	R5CPFAP631	69	R5CPL1025	72
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R5SBT4615	48	R5SWM68	76		
R5SBT4620	48	R5SWP64	77		
R5SBT4625	48	R5SWP66	77		
R5SBT4630	48	R5SWP68	77		
R5SBT4815	48	R5TE18M	38		
R5SBT4820	48	R5TE20M	38		
R5SBT4825	48	R5TE22M	38		
R5SBT4830	48	R5TOEM100	45		
R5SBT815	48	R5TOEM40	45		
R5SBT820	48	R5TOEM60	45		
R5SBT825	48	R5TOEM80	45		



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