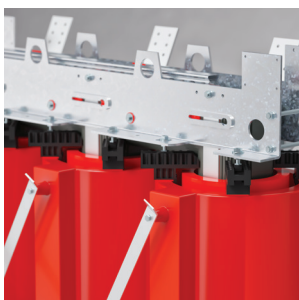
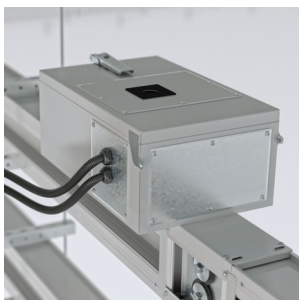
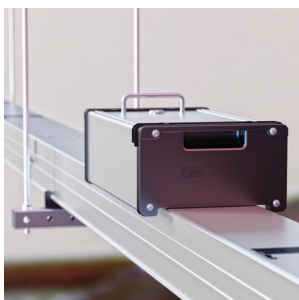




# Product catalog

Busbars  
Transformers



- "Lightech" busbar for 25–40 A
- "Distritech" busbar for 160–800 A
- "Powertech" busbar for 630–6300 A
- Cast Resin Transformers

## Contents

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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 power distribution solutions  
"RAM power"



Fire-resistant  
cable lines



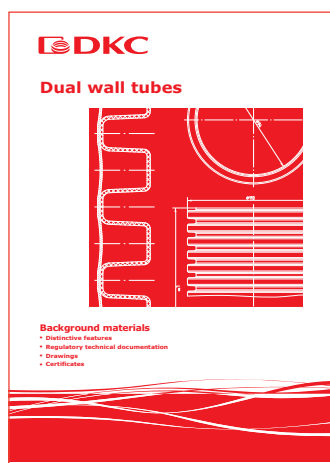
Collection of instructions for  
installation of cable ducts



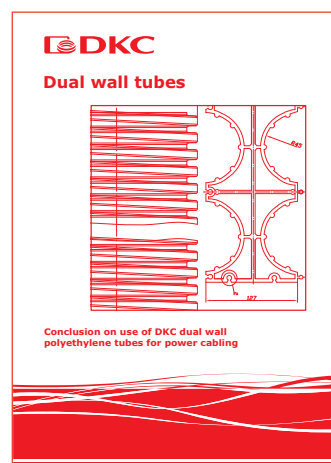
Zinc lamellar coating



Solutions for monolithic  
construction

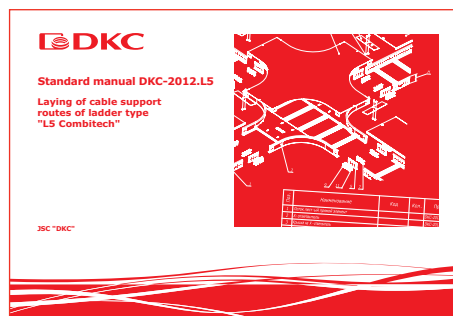


Dual wall tubes  
Background materials

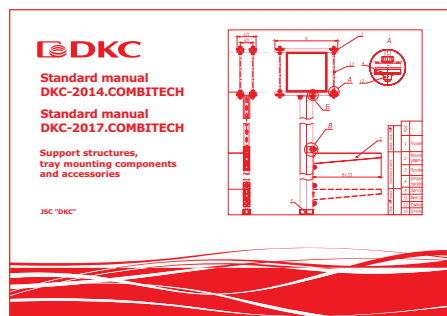


Conclusion  
on use of DKC dual wall  
polyethylene tubes for power  
cabling

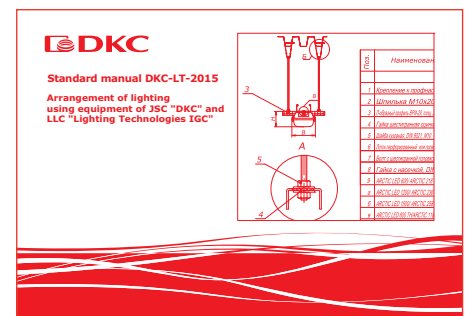
## Additional references



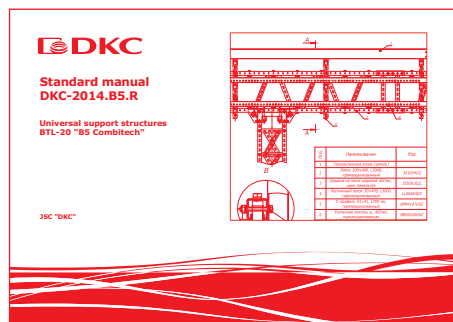
Standard manual DKC-2012.L5  
Laying of cable support routes  
of ladder type "L5 Combitech"



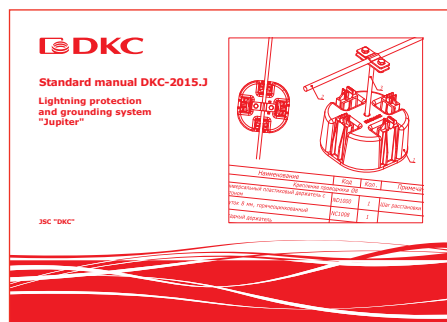
Standard manual DKC-2014.COMBITECH  
Standard manual DKC-2017.COMBITECH  
Support structures, tray mounting components  
and accessories



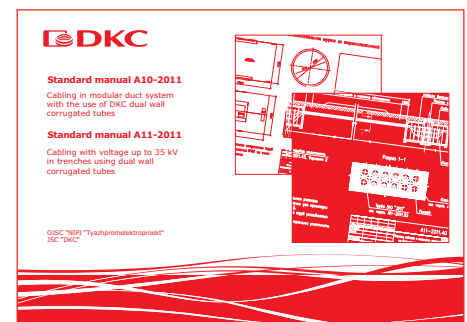
Standard manual DKC-LT-2015  
Arrangement of lighting  
using equipment of DKC and Lighting  
Technologies



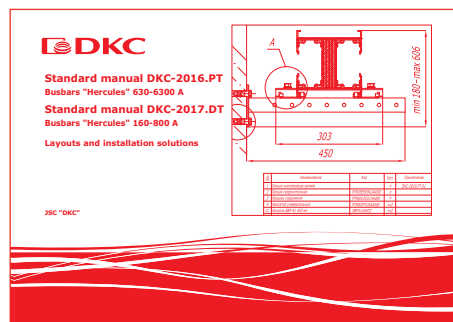
Standard manual DKC-2014.B5.R  
Universal support structures BTL-20  
"B5 Combitech"



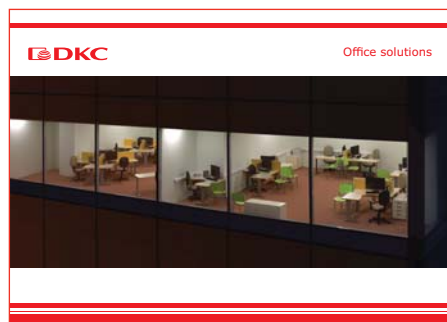
Standard manual DKC-2015.J  
System of lightning protection  
and grounding "Jupiter"



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.

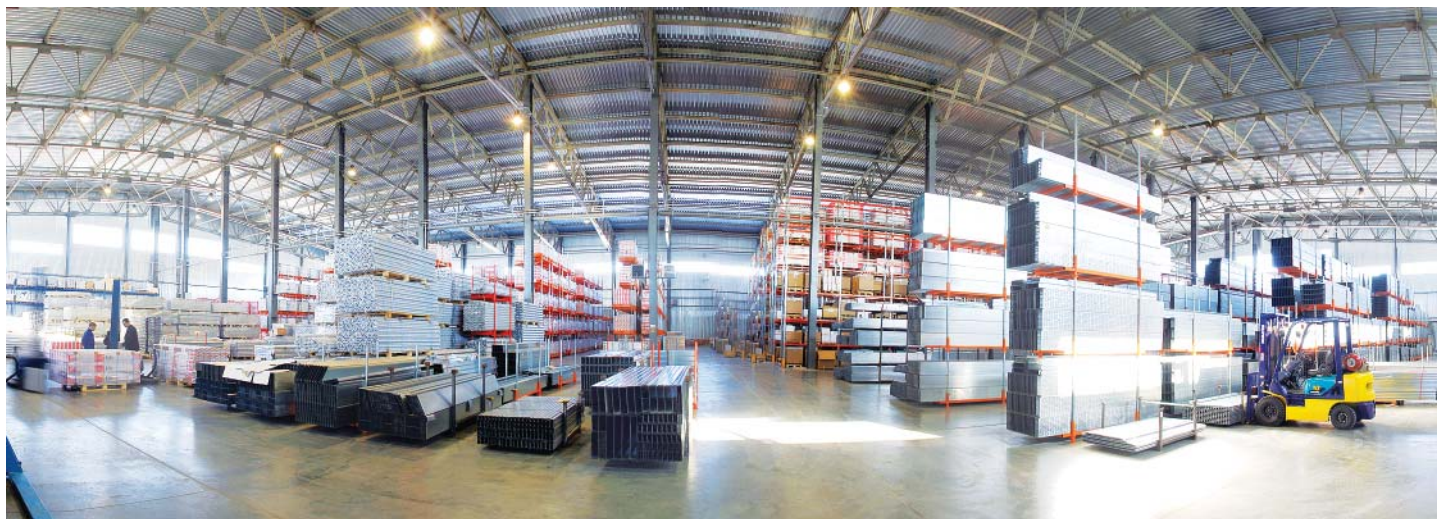
### Industry solutions

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 packages (LVP). 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) LVPs

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 packages throughout Russia

Availability of all necessary certificates and test reports

Detailed instructions for assembly and installation of products

Professional installation

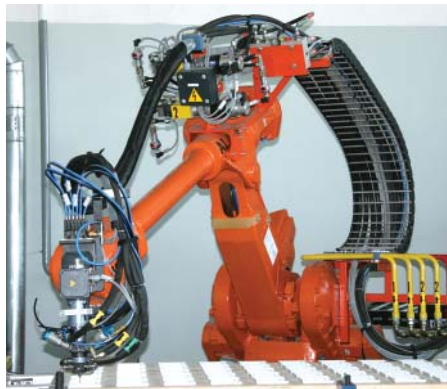
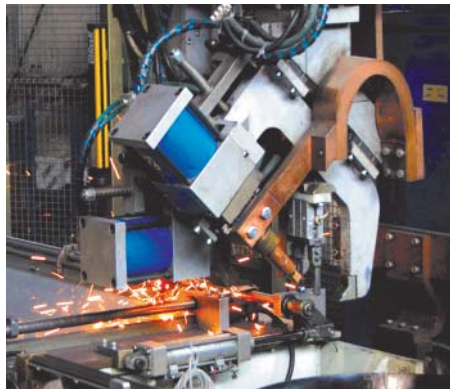
Possibility to perform technical training on equipment installation and operation

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



## Comprehensive offer of equipment for assembly of fuse boxes

Over the past several years DKC proved to be the manufacturer of high-quality low-voltage equipment which has been installed and successfully operated not only in Russia and Europe, but also in countries of North Africa, Middle East and Latin America. Modern automated manufacturing, implementation of advanced technologies and own design bureau allow providing consumers with products of consistent high quality and make it possible for the Company to develop successfully on the market of electrotechnical equipment. DKC offers ample opportunities for furnishing of enclosures with high-quality components from one supplier to low-voltage equipment assemblers.



## Technical support

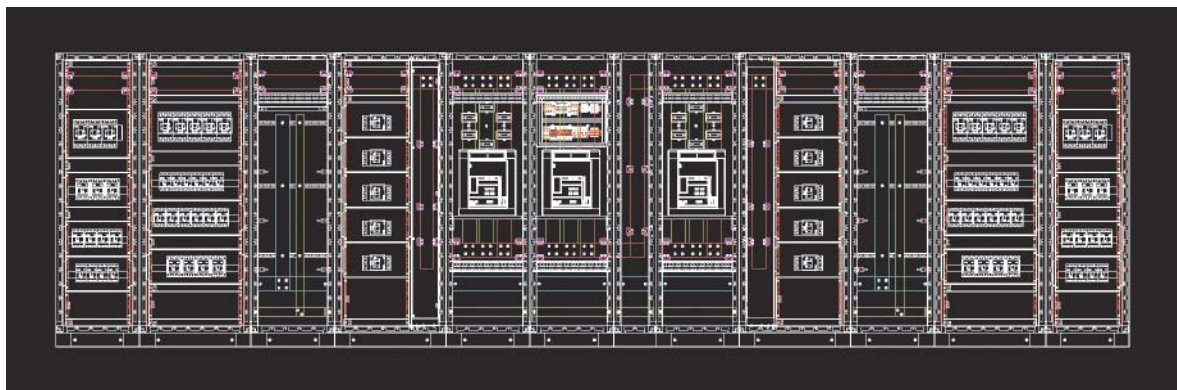
DKC pays great attention to technical support of its products.

Technical handbooks, drawings and software products are issued regularly for support of clients operating DKC low-voltage equipment.

The website [www.dkc.ru](http://www.dkc.ru) provides free access to all necessary 2D and 3D drawings in STEP and DWG formats which are compatible with the most common programs of two-dimensional and three-dimensional design. Dynamic blocks of 2D drawings of metal and heavy duty enclosures made of polycarbonate which allow simplifying design and avoiding errors when selecting accessories are also available.

High qualification of specialists of the Technical Support Department makes it possible to deal with projects of any complexity, render a full range of services on support of clients operating low-voltage equipment:

- design of fuse boxes on the basis of "RAM block" enclosure range and "Quadro" components according to single-line diagrams;
- development of solutions for special (non-standard) LVPS;
- technical training on equipment installation and operation.



Example of appearance drawing of a low-voltage switchgear on the basis of "RAM block" enclosures

### 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.





# **HERCULES**

## **"Ligtech" busbar for 25-40 A**

<b>System description .....</b>	<b>10</b>
<b>Straight elements .....</b>	<b>18</b>
<b>End feeders, end covers, flexible elbows.....</b>	<b>22</b>
<b>Tap-off units.....</b>	<b>24</b>
<b>Accessories .....</b>	<b>31</b>



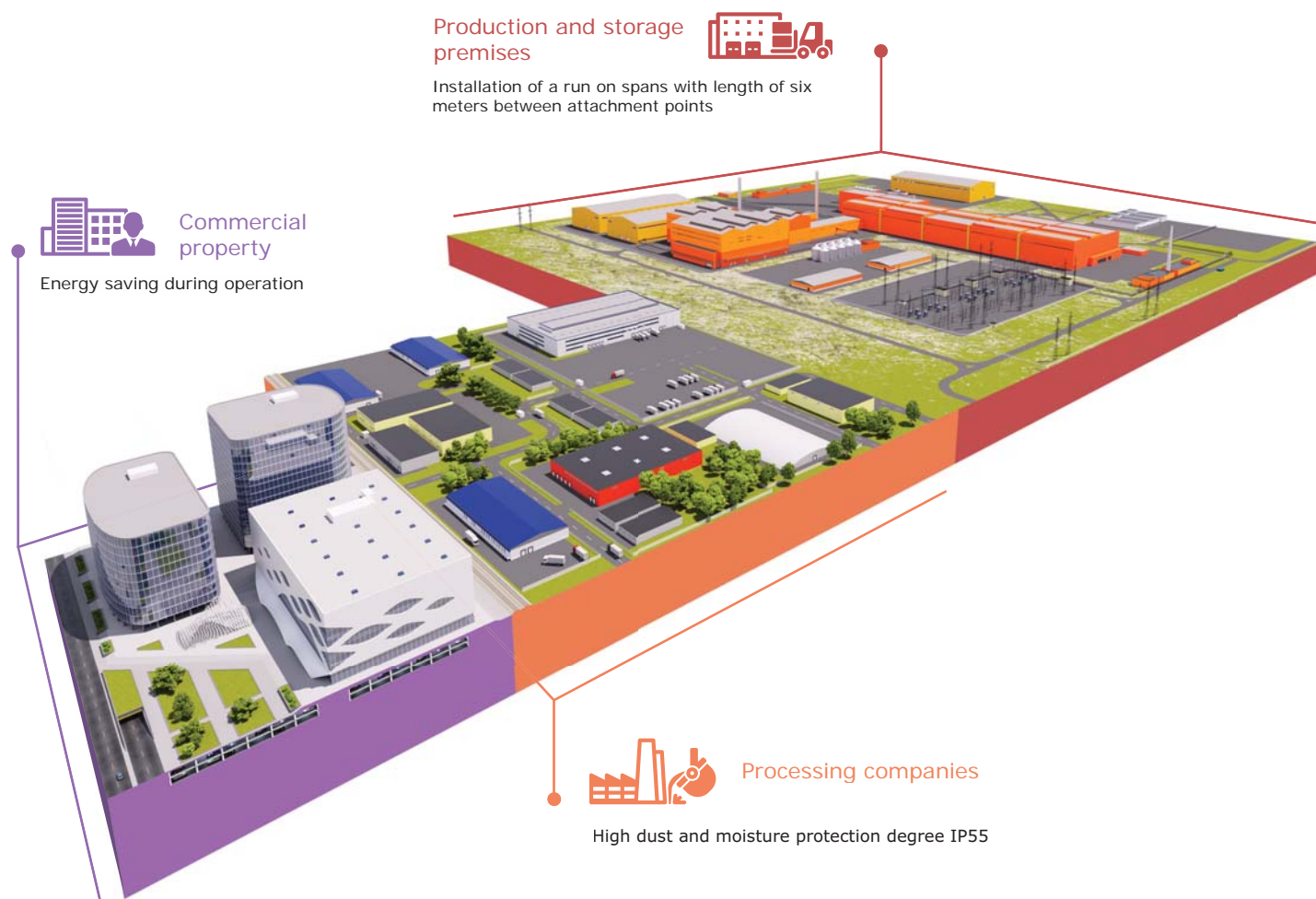
## "Lighttech" busbar for 25–40 A

### Product description

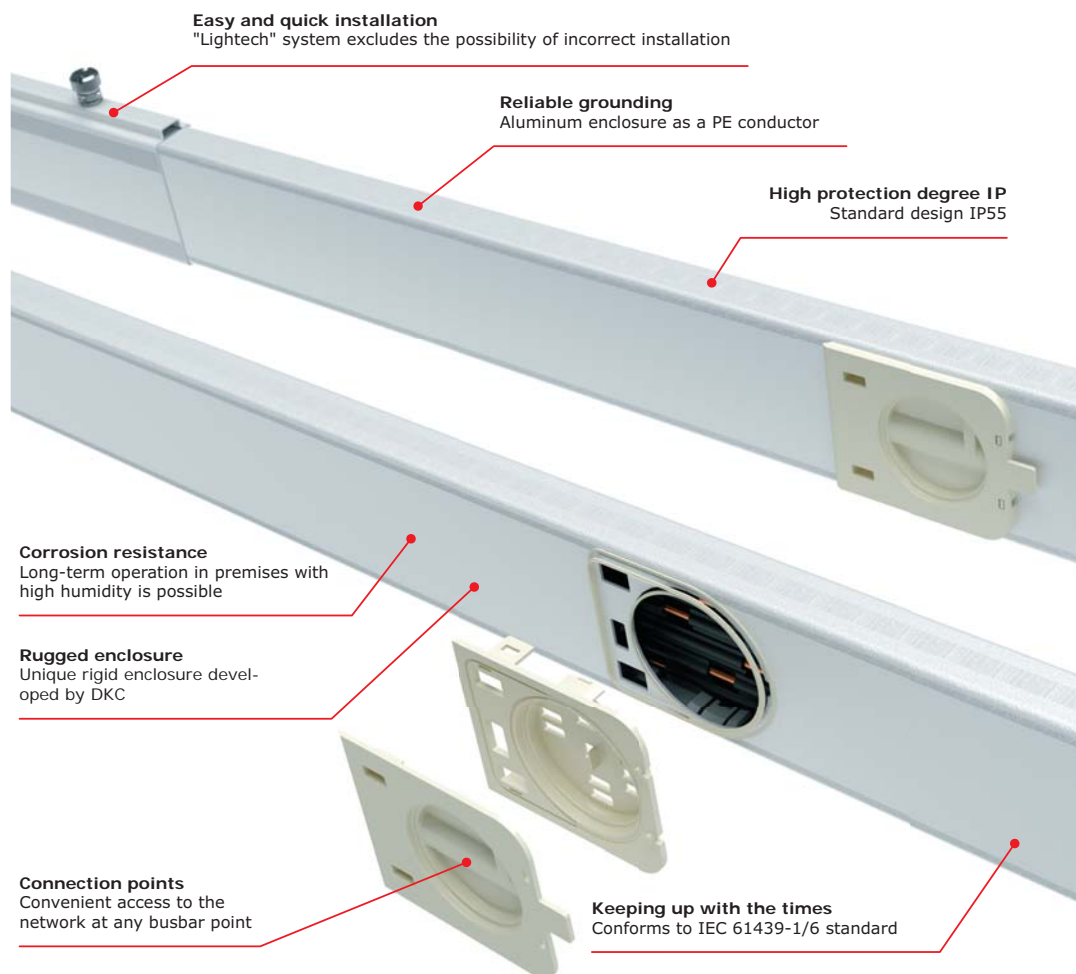
The "Lighttech" lighting busbar was created with conformity to the requirements of the most recent European standards. The busbar is manufactured together with copper conductors located within the closed enclosure having thickness of 1 mm made of aluminum which allows operating the busbar in premises with increased humidity. The system is characterized by easy and quick process of assembly of a run, easy replacement of light fixtures, possibility to suspend light fixtures on the busbar and nearby, fast installation of a run to ceilings and metal structures using ropes, chains or studs.

### Application

Busbars are used for power supply to light fixtures and low-power consumers in alternating current circuits of 25 and 40 A with voltage of 400 V. Owing to easy, convenient and quick replacement of light fixtures, the busbar is used in large logistic centers, exhibition centers and metropolitan railway. By virtue of the corrosion-resistant aluminum enclosure and high protection degree IP55, the busbar is used at industrial facilities (greenhouses and farms, food production facilities, hospitals and data centers, indoor swimming pools). Owing to absence of halogens, the busbar is used at places of mass gathering (hypermarkets, galleries and museums, restaurants and coffeehouses, airports and railway stations, sports complexes).



### Advantages



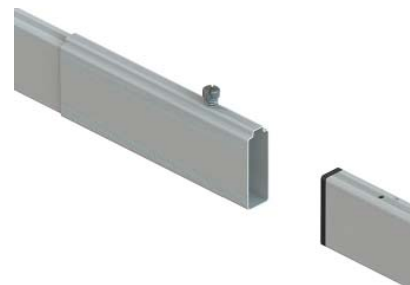
## Distinctive features



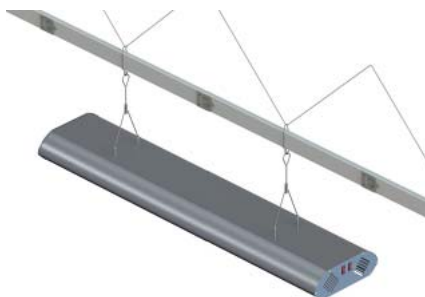
The aluminum enclosure of the busbar is resistant to aggressive media. In premises with increased humidity, the busbar has a longer service life than its equivalents with the galvanized steel enclosure. Wide range of application.



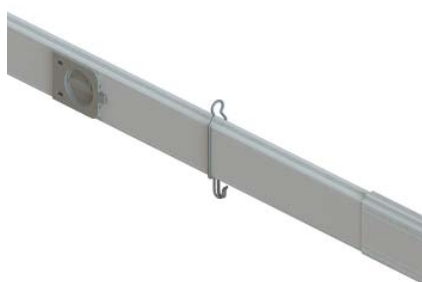
Tap-off units have marking of different colors for the purpose of identification of a circuit (phase), where to a unit (light fixture, consumer) is connected. All plug-in points have covers IP55 which are opened, but not removed or lost. There is a special cable fixing bracket for aesthetic appearance of a run.



Quick, convenient and easy installation of busbar sections owing to "female-male" connections. Final reliable attachment of a connection point using one screw which has already been installed into a section at the DKC plant.



Examples of installation of light fixtures on the busbar with specifications are given in the standard manual DKC-LT at the DKC website in the section "Support".



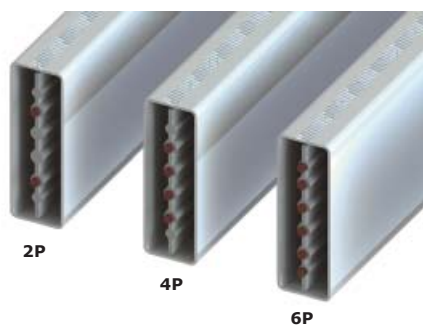
Quick and easy run installation owing to presence of holders for busbar suspension using a DKC wire or chain of "M5 Combitech" series in the product range.



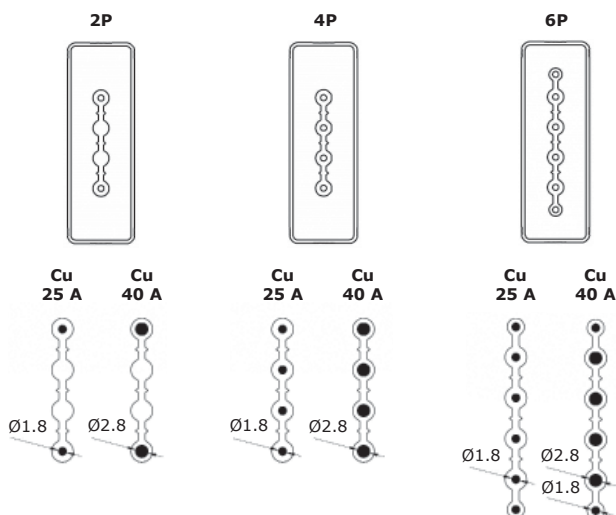
The system includes accessories for laying of a cable duct parallel to a busbar run with the possibility of suspension to a ceiling at this point using a wire or chain.

## System composition

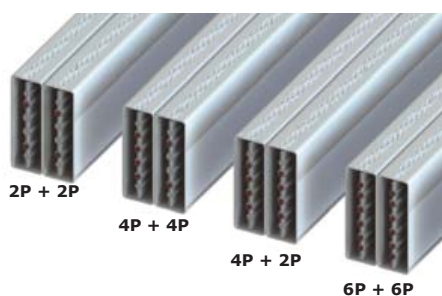
### Single busbars



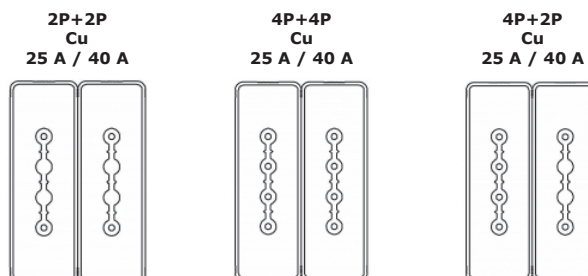
#### Copper buses



### Double busbars



#### Copper buses



### System composition



- |   |                                     |    |                                   |
|---|-------------------------------------|----|-----------------------------------|
| 1 | Straight element of a single busbar | 9  | Cable fixing bracket              |
| 2 | Straight element of a double busbar | 10 | Holder for a rope or a chain      |
| 3 | Flexible elbow of a single busbar   | 11 | Tap-off unit with phase selection |
| 4 | Flexible elbow of a double busbar   | 12 | Ordinary holder with a latch      |
| 5 | End feeder                          | 13 | Universal holder                  |
| 6 | End cover                           | 14 | Hook                              |
| 7 | Tap-off unit with polarization N/L1 | 15 | Cable duct holder                 |
| 8 | Tap-off unit with polarization N/L2 |    |                                   |

### Regulatory technical base on use of DKC lighting busbars\*

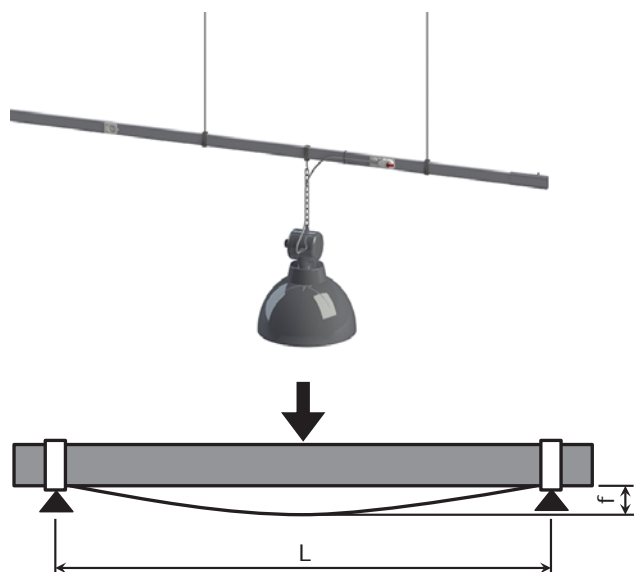
1. Standard manual DKC-LT-2015 "Arrangement of lighting using equipment of JSC "DKC" and LLC "Lighting Technologies IGC"
2. Collection of instructions for installation of lighting busbar
3. DKC storage solutions represent ready-made solutions on arrangement of lighting with a DKC busbar at a modern warehouse complex of class "B".
4. Certificates.

\* Refer to DKC regional representative offices to receive the regulatory technical documents or download them from DKC website

## Technical data

Basic characteristics				"Hercules" lighting busbar													
Rated operational current (40 °C) I <sub>ncr</sub> , A				25						40							
Rated operating voltage U <sub>e</sub> , V				400						400							
Rated insulation voltage U <sub>i</sub> , V				690						690							
Rated impulse withstand voltage (peak voltage) U <sub>imp</sub> , V				6000						6000							
Rated frequency f <sub>n</sub> , Hz				50/60						50/60							
Conductor material (Cu – copper)				Cu						Cu							
Number of conductors (buses) within busbar enclosure				2	4	6	2+2	2+4	4+4	6+6	2	4	6	2+2	2+4	4+4	6+6
Busbar type and number of circuits (single – 1, double – 2)				single			double			single			double				
Standard number of plug-in points (may be changed by order)				1, 2, 3			2, 4, 6			1, 2, 3			2, 4, 6				
Standard distance between plug-in points (may be changed by order)				0.75 m (busbar with length of 3 m and 3 plug-in points on one side)													
Dimensions of busbar enclosure (box), mm				60x20			60x40			60x20			60x40				
Diameter of phase conductor N, L1, L2, L3 D, mm				1.8			1.8			2.8			2.8				
Section of phase conductor N, L1, L2, L3 S, mm				2.54			2.54			6.16			6.16				
Insulation of phase conductors				fire-resistant, halogen free throughout the whole length; insulation is absent only at plug-in points (at points of plug-in connections)													
PE protective neutral conductor				busbar enclosure (box)													
Busbar enclosure material				AL 6060 aluminum alloy													
Busbar enclosure thickness, mm				1.00													
Section of busbar enclosure (PE protective conductor) S, mm <sup>2</sup>				140			280			140			280				
Section of PE protective conductor (enclosure) equivalent to copper section S <sub>cu</sub> , mm <sup>2</sup>				84			168			84			168				
Transient connection resistance of enclosures of two busbars according to GOST R 52796-2007 (clause 9.10), mOhm				7.04													
Information on conductors																	
Active resistance of phase bus (20 °C), R <sub>20</sub> , mOhm/m				2.97						2.70							
Reactive resistance of phase bus at 50 Hz X, mOhm/m				0.20						0.45							
Full resistance of phase bus (impedance) Z, mOhm/m				3.23						8.27							
Active resistance of phase bus at maximum operating temperature R <sub>φ</sub> , mOhm/m				6.52						8.16							
Short circuit																	
Rated short-time withstand current (rated short-circuit current) I <sub>cw</sub> , kA				3.1						6.1							
Rated initial short-circuit current (peak short-circuit current) I <sub>pk</sub> , kA				4.8						10.6							
Maximum temperature limit (thermal load) I <sup>2</sup> t, A <sup>2</sup> ·s·10 <sup>3</sup>				230.4						1123.6							
Other characteristics																	
Resistance of emergency loop R <sub>0</sub> , mOhm/m				15.95						6.97							
Reactive resistance of emergency loop X <sub>0</sub> , mOhm/m				1.57						0.65							
Full resistance of emergency loop Z <sub>0</sub> , mOhm/m				16.03						7							
Voltage drop factor k (V/m/A) 10 <sup>-6</sup>		cos φ = 0.70		6.03						2.22							
		cos φ = 0.75		6.42						2.36							
		cos φ = 0.80		6.80						2.50							
		cos φ = 0.85		7.17						2.63							
		cos φ = 0.90		7.54						2.76							
For distributed load ΔU = k · L · I <sub>e</sub> · 10 <sup>-6</sup> , V		cos φ = 0.95		7.89						2.88							
For trunk ΔU = 2 · k · L · I <sub>e</sub> · 10 <sup>-6</sup> , V		cos φ = 1.00		8.16						2.97							
Protection degree IP				55													
Mechanical stiffness IK				06													
Operating position of a busbar during operation				on edge; plug-in points are located on sides													
Maximum distance between fasteners (for further details: loads and bends are shown on load curves), m				6													
Standards				TR CU 004/2011, Federal Law No. 123-ФЗ, GOST IEC 61439-1/6, GOST R 51321.2-2009, GOST 26346-84													
Requirement for correct connection of branching nodes according to GOST R 51321.2-2009 (clause 7.1.5), protection against installation errors				the following requirement is met: structure of branching units does not provide for the possibility of incorrect installation thereof													
Power supply continuity (removal/installation of new light fixtures)				tap-off units with light fixtures may be connected and disconnected without deenergization in a busbar													
Service life before busbar replacement				25 years													
Correction factor for determination of the allowable current value on the basis of the room temperature (GOST R 51321.2-2009, clause 6.1.1.3)																	
Initial ambient temperature for a busbar				T		°C		35		40		45		50			
Correction factor on the basis of the room temperature differing from the rated temperature of 40 °C				k <sub>1</sub>		%		1.05		1		0.94		0.82			

## Load curves at different bends



Load curves are drawn up according to GOST 26346-84 "Lighting busways".

In accordance with clause 3.9, busbars in the operating position shall withstand the load due to the weight of light fixtures attached thereon; residual deformation value shall not exceed 5 mm per 1 m of a busbar.

Residual deformation  $f = 5$  mm at the busbar section with length of  $L = 1000$  mm implies the bend of  $1/200$ .

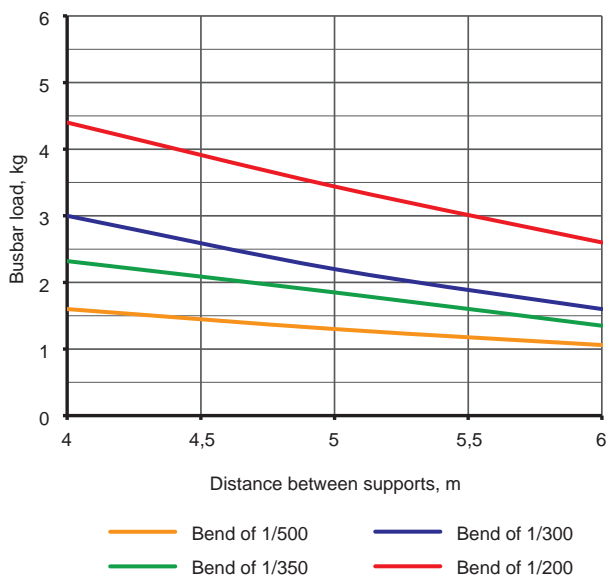
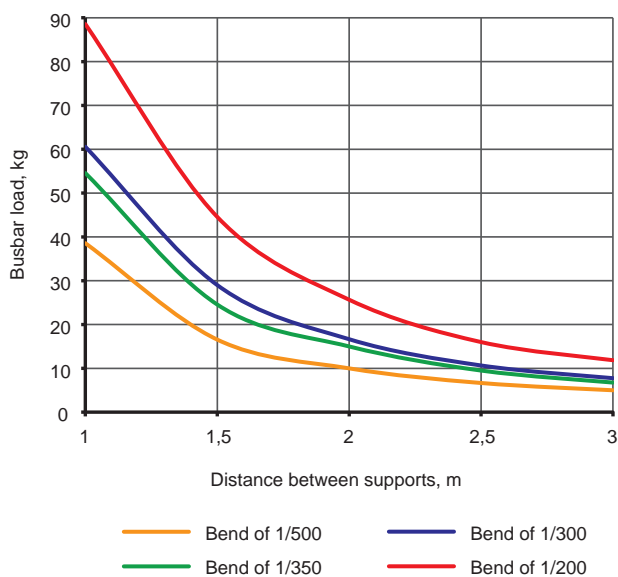
Busbar operating position: the busbar is installed on edge.

The load acting on the busbar may be either distributed or concentrated (point) in the middle between two support points.

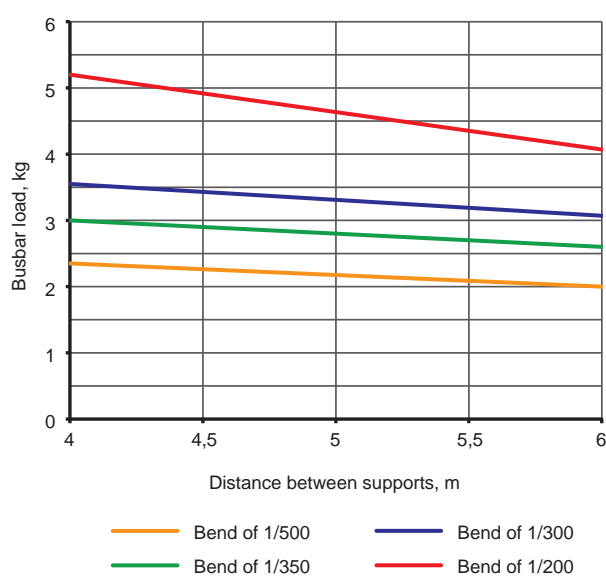
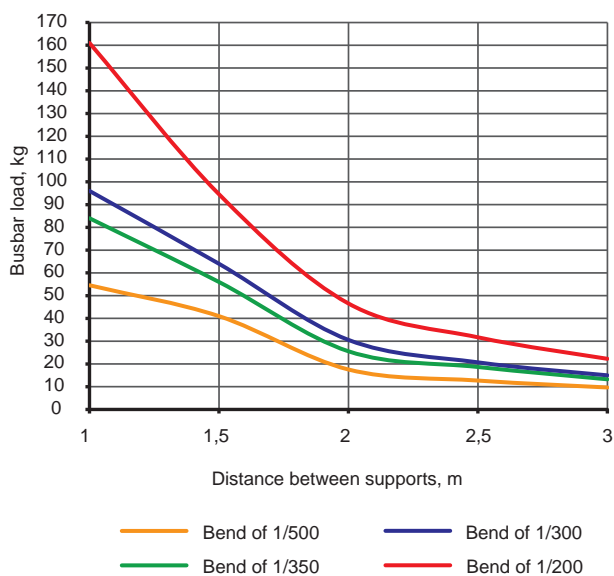
In case of the concentrated load, the busbar is exposed to more severe operating conditions: it bears the load which is approximately by 30–40% higher than the distributed load.

Concentrated load curves are given below.

## Single busbars



## Double busbars





## Coding system

**XX X XX X XXXX XX XXX**

### Design index:

**Combined designation of product unique characteristics** (for example, non-standard length of a straight element)

**Designation of a design of product standard characteristics**

**Product type combined designation** (see Annex 3)

**Pole configuration designation** (see Annex 2)

**Product rated current or bus height designation** (see Annex 1)

### Conductive part material

**A** – aluminum;

**C** – cooper;

**N** – an accessory is compatible with both materials.

### Busbar type

**PT** – Powertech;

**DT** – Distritech;

**LT** – Lightech.

## Example use

**LTC25DSP43AA000**

**000** – standard design;

**AA** – standard design;

**SP43** – straight element 3000 mm with 3 sockets;

**D** – 4P (4 conductors);

**25** – with rating of 25 A;

**C** – with copper buses;

**LT** – "Lightech" busbar for 25–40 A.

## Annex 1. Busbar rated current designation or accessory designation

25	25 A
40	40 A
70	accessory

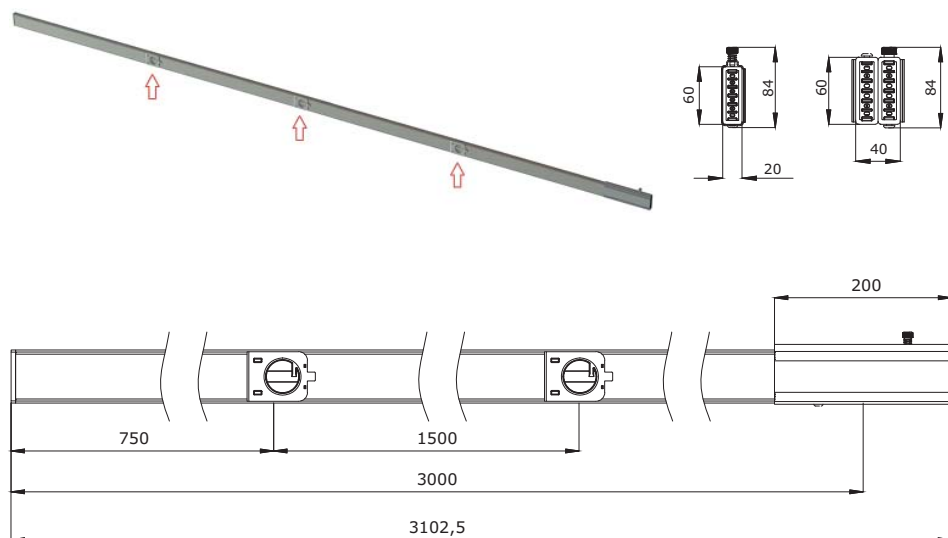
## Annex 2. Pole configuration designation

A	2P
B	2P+2P
C	3P
D	3P+Fe (4P)
F	4P+4P
L	6P
M	6P+6P
N	4P+2P
P	2P, 4P, 6P
Q	2P+2P, 4P+4P, 6P+6P, 4P+2P
Z	universal purpose (accessories, brackets, mobile contacts)

## Annex 3. Product type combined designation

FED3	feeder (end feeder) + end cover of type 1
FED4	feeder (end feeder) + end cover of type 2
FIU1	attachment bracket of type 1
FIU2	attachment bracket of type 2
FIU3	attachment bracket of type 3
FIU4	attachment bracket of type 4
FIU6	attachment bracket of type 6
FIU7	attachment bracket of type 7
FLXJ	flexible connector
MC01	mobile contact for 16 A, N without a fuse
MC02	mobile contact for 16 A, phased without a fuse
MC03	mobile contact for 16 A, phased with a fuse
MC04	mobile contact for 6.3 A, phased with a fuse
PP01	tap-off unit with a cable for 10 A N/L1, cable 3x1; 0.8 m H05Z1Z1F
PP02	tap-off unit with a cable for 10 A N/L2, cable 3x1; 0.8 m H05Z1Z1F
PP03	tap-off unit with a cable for 10 A N/L3, cable 3x1; 0.8 m H05Z1Z1F
PP04	tap-off unit with a cable for 10 A L2/L3, cable 3x1; 0.8 m H05Z1Z1F
PP05	tap-off unit with a cable for 10 A N/L1 + L4/L5, cable 5x1; 0.8 m H05Z1Z1F
PP06	tap-off unit with a cable for 10 A N/L2 + L4/L5, cable 5x1; 0.8 m H05Z1Z1F
PP07	tap-off unit with a cable for 10 A N/L3 + L4/L5, cable 5x1; 0.8 m H05Z1Z1F
PP08	tap-off unit with a cable for 10 A L2/L3 + L4/L5, cable 5x1; 0.8 m H05Z1Z1F
PP09	tap-off unit with a cable for 10 A N/L1/L2/L3, cable 5x1; 0.8 m H05Z1Z1F
PP11	tap-off unit with a cable for 10 A N/L1, cable 3x1; 3 m H05Z1Z1F
PP12	tap-off unit with a cable for 10 A N/L2, cable 3x1; 3 m H05Z1Z1F
PP13	tap-off unit with a cable for 10 A N/L3, cable 3x1; 3 m H05Z1Z1F
PP14	tap-off unit with a cable for 10 A L2/L3, cable 3x1; 3 m H05Z1Z1F
PP15	tap-off unit with a cable for 10 A N/L1 + L4/L5, cable 5x1; 3 m H05Z1Z1F
PP16	tap-off unit with a cable for 10 A N/L2 + L4/L5, cable 5x1; 3 m H05Z1Z1F
PP17	tap-off unit with a cable for 10 A N/L3 + L4/L5, cable 5x1; 3 m H05Z1Z1F
PP18	tap-off unit with a cable for 10 A L2/L3 + L4/L5, cable 5x1; 3 m H05Z1Z1F
PP19	tap-off unit with a cable for 10 A N/L1/L2/L3, cable 5x1; 3 m H05Z1Z1F
PP21	tap-off unit with a cable for 10 A N/L1, cable 3x1.5; 0.8 m of FG7(0)M1 cable
PP22	tap-off unit with a cable for 10 A N/L2, cable 3x1.5; 0.8 m of FG7(0)M1 cable
PP23	tap-off unit with a cable for 10 A N/L3, cable 3x1.5; 0.8 m of FG7(0)M1 cable
PP24	tap-off unit with a cable for 10 A L2/L3, cable 3x1.5; 0.8 m of FG7(0)M1 cable
PP31	tap-off unit with a cable for 10 A N/L1, cable 3x1.5; 3 m of FG7(0)M1 cable
PP32	tap-off unit with a cable for 10 A N/L2, cable 3x1.5; 3 m of FG7(0)M1 cable
PP33	tap-off unit with a cable for 10 A N/L3, cable 3x1.5; 3 m of FG7(0)M1 cable
PP34	tap-off unit with a cable for 10 A L2/L3, cable 3x1.5; 3 m of FG7(0)M1 cable
PS01	tap-off unit for connection to a busbar, with a phase selection function for 16 A N/L without a fuse
PS02	tap-off unit for connection to a busbar, with a phase selection function for 16 A N/L with a fuse
PS03	tap-off unit for connection to a busbar, with a phase selection function for 6.3 A N/L with a fuse
PS04	tap-off unit for connection to a busbar, with a phase selection function for 16 A N/L + L4/L5 without a fuse
PS05	tap-off unit for connection to a busbar, with a phase selection function for 16 A N/L + L4/L5 with a fuse
PS06	tap-off unit for connection to a busbar, with a phase selection function for 6.3 A N/L + L4/L5 with a fuse
PS07	tap-off unit, with a phase selection function for 6.3 A N/L with a fuse, cable 3x1 0.8 m (H05Z1Z1F)
PS08	tap-off unit, with a phase selection function for 6.3 A N/L + L4/L5 with a fuse, cable 5x1 0.8 m (H05Z1Z1F)
PS09	tap-off unit, with a phase selection function for 16 A N/L without a fuse, cable 3x1 0.8 m (H05Z1Z1F)
PS10	tap-off unit, with a phase selection function for 16 A N/L + L4/L4 without a fuse, cable 5x1 0.8 m (H05Z1Z1F)
SP41	straight element 3000 mm with 2 sockets
SP42	straight element 3000 mm with 1 socket
SP43	straight element 3000 mm with 3 sockets
SP44	straight element 1000 mm with 1 socket

## Straight element with length of 3000 mm and 3 plug-in points



### Purpose:

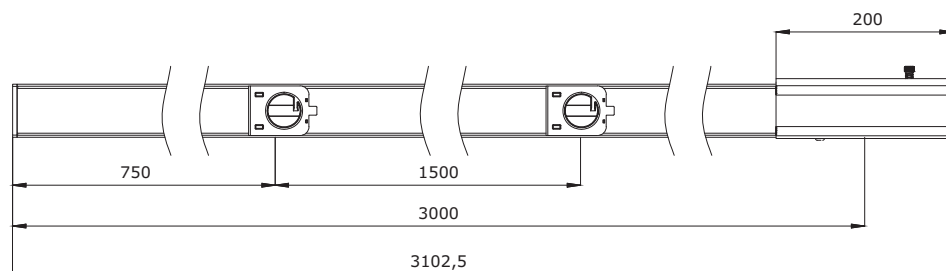
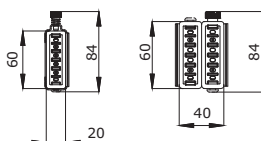
- formation of a busbar run with the connection option;
- only N/L3 tap-off units are used with 2P double-pole busbars.

### Characteristics:

- rated currents at 40 °C are 25 and 40 A;
- conductor material is copper;
- enclosure material is aluminum;
- enclosure (box) wall thickness is 1 mm;
- rated voltage is 400 V;
- protection degree is IP55;
- mechanical stiffness is 1K06.

Rated current, A	Number of plug-in points on each side, pcs	Busbar type	Number of conductors in a busbar	Busbar polarity	Weight, kg	Code
25	3+0	single	2P	L3 + N + PE (enclosure)	1.864	LTC25ASP43AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.164	LTC25DSP43AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.464	LTC25LSP43AA000
	3+3	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.728	LTC25BSP43AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.328	LTC25FSP43AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	3.668	LTC25NSP43AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	4.928	LTC25MSP43AA000
40	3+0	single	2P	L3 + N + PE (enclosure)	1.964	LTC40ASP43AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.364	LTC40DSP43AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.764	LTC40LSP43AA000
	3+3	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.928	LTC40BSP43AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.728	LTC40FSP43AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	4.328	LTC40NSP43AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	5.528	LTC40MSP43AA000

## Straight element with length of 3000 mm and 2 plug-in points



### Purpose:

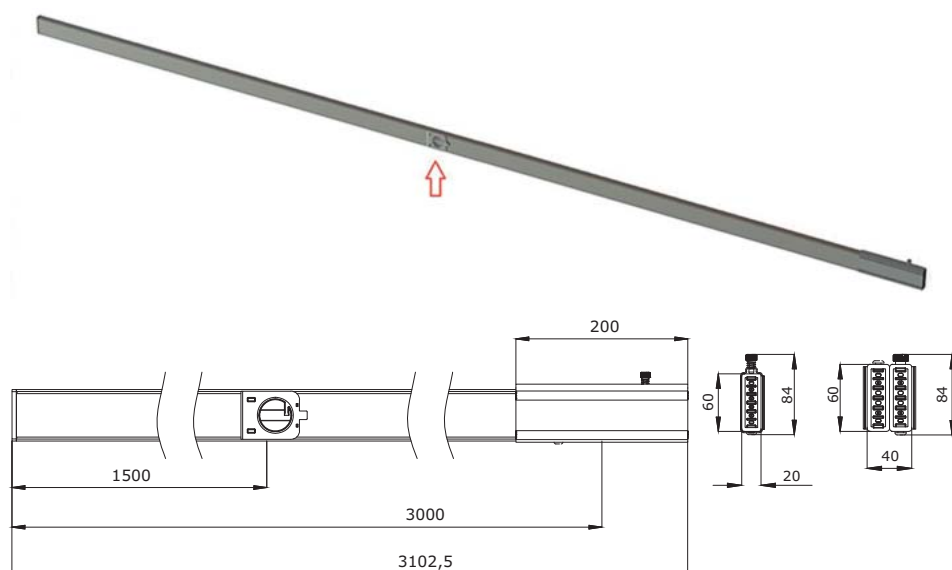
- formation of a busbar run with the connection option;
- only N/L3 tap-off units are used with 2P double-pole busbars.

### Characteristics:

- rated currents at 40 °C are 25 and 40 A;
- conductor material is copper;
- enclosure material is aluminum;
- enclosure (box) wall thickness is 1 mm;
- rated voltage is 400 V;
- protection degree is IP55;
- mechanical stiffness is IK06.

Rated current, A	Number of plug-in points on each side, pcs	Busbar type	Number of conductors in a busbar	Busbar polarity	Weight, kg	Code
25	2+0	single	2P	L3 + N + PE (enclosure)	1.864	LTC25ASP41AA300
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.164	LTC25DSP41AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.464	LTC25LSP41AA000
	2+2	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.728	LTC25BSP41AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.328	LTC25FSP41AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	3.668	LTC25NSP41AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	4.928	LTC25MSP41AA000
40	2+0	single	2P	L3 + N + PE (enclosure)	1.964	LTC40ASP41AA300
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.364	LTC40DSP41AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.764	LTC40LSP41AA000
	2+2	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.928	LTC40BSP41AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.728	LTC40FSP41AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	4.328	LTC40NSP41AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	5.528	LTC40MSP41AA000

## Straight element with length of 3000 mm and 1 plug-in point



### Purpose:

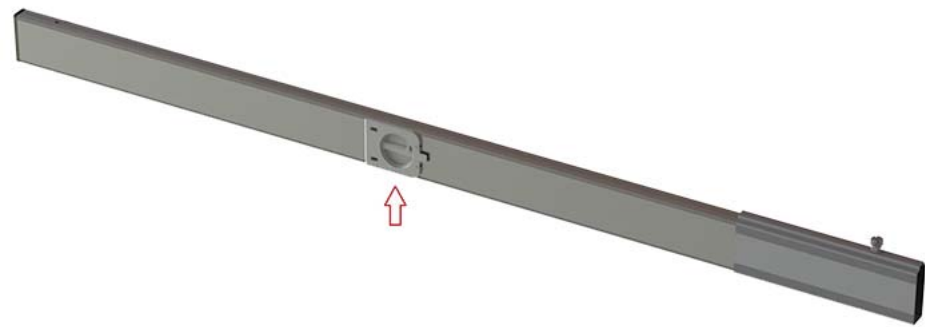
- formation of a busbar run with the connection option;
- only N/L3 tap-off units are used with 2P double-pole busbars.

### Characteristics:

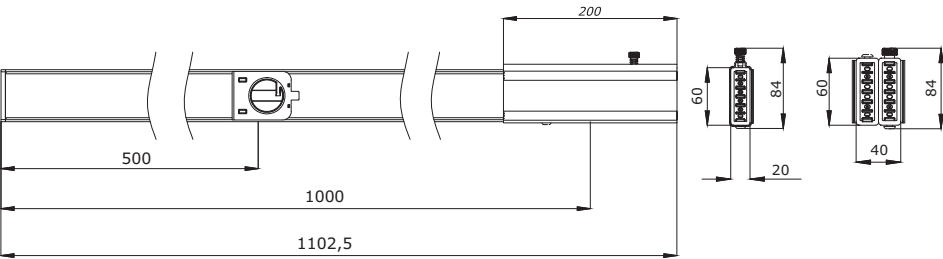
- rated currents at 40 °C are 25 and 40 A;
- conductor material is copper;
- enclosure material is aluminum;
- enclosure (box) wall thickness is 1 mm;
- rated voltage is 400 V;
- protection degree is IP55;
- mechanical stiffness is 1K06.

Rated current, A	Number of plug-in points on each side, pcs	Busbar type	Number of conductors in a busbar	Busbar polarity	Weight, kg	Code
25	1+0	single	2P	L3 + N + PE (enclosure)	1.864	LTC25ASP42AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.164	LTC25DSP42AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.464	LTC25LSP42AA000
	1+1	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.728	LTC25BSP42AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.328	LTC25FSP42AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	3.668	LTC25NSP42AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	4.928	LTC25MSP42AA000
40	1+0	single	2P	L3 + N + PE (enclosure)	1.964	LTC40ASP42AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	2.364	LTC40DSP42AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	2.764	LTC40LSP42AA000
	1+1	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	3.928	LTC40BSP42AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	4.728	LTC40FSP42AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	4.328	LTC40NSP42AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	5.528	LTC40MSP42AA000

Straight element with length of 1000 mm and 1 plug-in point



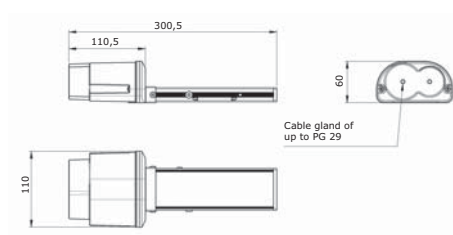
- Purpose:**
- formation of a busbar run with the connection option;
  - only N/L3 tap-off units are used with 2P double-pole busbars.
- Characteristics:**
- rated currents at 40 °C are 25 and 40 A;
  - conductor material is copper;
  - enclosure material is aluminum;
  - enclosure (box) wall thickness is 1 mm;
  - rated voltage is 400 V;
  - protection degree is IP55;
  - mechanical stiffness is IK06.



Rated current, A	Number of plug-in points on each side, pcs	Busbar type	Number of conductors in a busbar	Busbar polarity	Weight, kg	Code
25	1+0	single	2P	L3 + N + PE (enclosure)	0.621	LTC25ASP44AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	0.721	LTC25DSP44AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	0.821	LTC25LSP44AA000
	1+1	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	1.243	LTC25BSP44AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	1.443	LTC25FSP44AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	1.223	LTC25NSP44AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	1.643	LTC25MSP44AA000
40	1+0	single	2P	L3 + N + PE (enclosure)	0.655	LTC40ASP44AA000
			4P	L3 + L2 + L1 + N + PE (enclosure)	0.788	LTC40DSP44AA000
			6P	L5 + L4 + L3 + L2 + L1 + N + PE (enclosure)	0.921	LTC40LSP44AA000
	1+1	double	2P+2P	(L3+N) + (L3+N) + PE (enclosure)	1.309	LTC40BSP44AA000
			4P+4P	(L3+L2+L1+N) + (L3+L2+L1+N) + PE (enclosure)	1.576	LTC40FSP44AA000
			4P+2P	(L3+L2+L1+N) + (L3+N) + PE (enclosure)	1.443	LTC40NSP44AA000
			6P+6P	(L5+L4+L3+L2+L1+N) + (L5+L4+L3+L2+L1+N) + PE (enclosure)	1.843	LTC40MSP44AA000



## End feeder (feeder) + end cover of type 1



### Purpose:

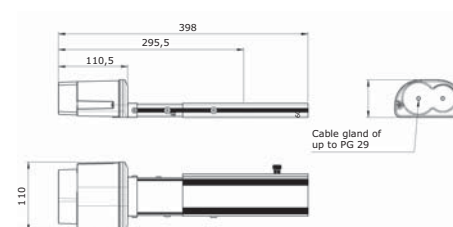
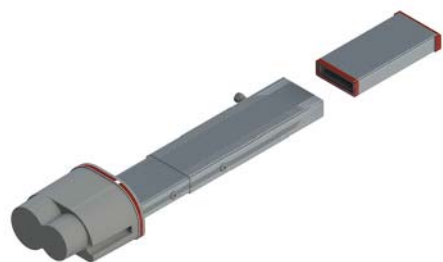
- connection of a busbar run to the network and sealing of a run end for the purpose of provision of the protection degree IP55.

### Characteristics:

- rated currents at 40 °C are 25 and 40 A;
- conductor material is copper;
- rated voltage is 400 V;
- protection degree is IP55;
- material is thermoplastic and aluminum (straight element);
- it is possible to install a gland, for example, a cable clamp (code 53000) for cable or tube entry.

Rated current, A	Busbar type	Number of conductors in a busbar	Code
25	single	2P	LTC25DFED3AA000
		4P	LTC25DFED3AA000
		6P	LTC25LFED3AA000
	double	2P+2P	LTC25FFED3AA000
		4P+4P	
		4P+2P	
40	single	6P+6P	LTC25MFED3AA000
		2P	LTC40DFED3AA000
		4P	
		6P	
	double	2P+2P	LTC40FFED3AA000
		4P+4P	
		4P+2P	
		6P+6P	
		6P+6P	LTC40MFED3AA000

## End feeder (feeder) + end cover of type 2



### Purpose:

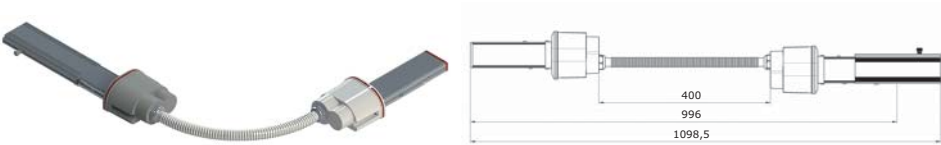
- connection of a busbar run to the network and sealing of a run end for the purpose of provision of the protection degree IP55.

### Characteristics:

- rated currents at 40 °C are 25 and 40 A;
- conductor material is copper;
- rated voltage is 400 V;
- protection degree is IP55;
- material is thermoplastic and aluminum (straight element);
- it is possible to install a gland, for example, a cable clamp (code 53000) for cable or tube entry.

Rated current, A	Busbar type	Number of conductors in a busbar	Code
25	single	2P	LTC25DFED4AA000
		4P	LTC25DFED4AA000
		6P	LTC25LFED4AA000
	double	2P+2P	LTC25FFED4AA000
		4P+4P	
		4P+2P	
40	single	6P+6P	LTC25MFED4AA000
		2P	LTC40DFED4AA000
		4P	
		6P	
	double	2P+2P	LTC40FFED4AA000
		4P+4P	
		4P+2P	
		6P+6P	
		6P+6P	LTC40MFED4AA000

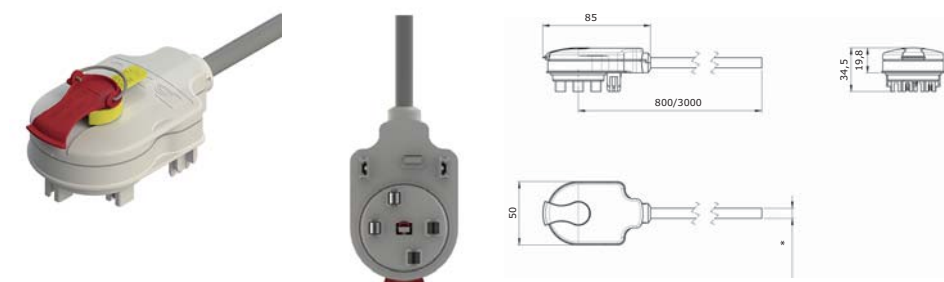
Flexible elbow (flexible connection)



- Purpose:**
- for implementation of busbar run elbows at any angle in any direction;
  - level change;
  - obstacle avoidance (length of a central part of a flexible connector is 400 mm).
- Characteristics:**
- rated currents at 40 °C are 25 and 40 A;
  - conductor material is copper;
  - rated voltage is 400 V;
  - protection degree is IP55;
  - material is thermoplastic and aluminum (straight element).

Rated current, A	Busbar type	Number of conductors in a busbar	Code
25	single	2P	LTC25DFLXJAA000
		4P	LTC25DFLXJAA000
		6P	LTC25FLXJAA000
	double	2P+2P	LTC25FFLXJAA000
		4P+4P	
		4P+2P	
40	single	6P+6P	LTC25MFLXJAA000
		2P	LTC40DFLXJAA000
		4P	
	double	6P	LTC40FLXJAA000
		2P+2P	LTC40FFLXJAA000
		4P+4P	
		4P+2P	
		6P+6P	LTC40MFLXJAA000

## Tap-off unit with polarization N/L1 with a cable


**Purpose:**

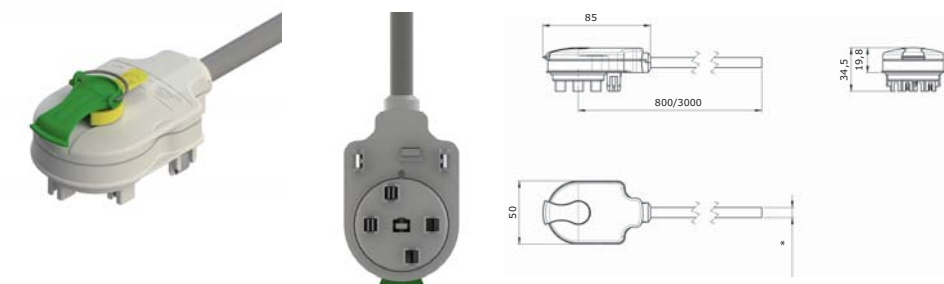
- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

**Characteristics:**

- fixing bracket color is red (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 3x1 mm<sup>2</sup> H05Z1Z1F cable is 8 mm;
- diameter of 3x1.5 mm<sup>2</sup> FG07M1 cable is 12.5 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L1+PE	4P, 6P, 4P+4P, 4P+2P (installation to 4P), 6P+6P	red	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.106	LTN70APP01AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.245	LTN70APP21AA000
				3000	H05Z1Z1F 3x1 mm <sup>2</sup>	0.280	LTN70APP11AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.820	LTN70APP31AA000

## Tap-off unit with polarization N/L1+L4/L5 with a cable


**Purpose:**

- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

**Characteristics:**

- color of a fixing bracket color is green (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 5x1 mm<sup>2</sup> H05Z1Z1F cable is 9.8 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L1+L4/L5+PE	6P, 6P+6P	green	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.126	LTN70APP05AA000
				3000	H05Z1Z1F 5x1 mm <sup>2</sup>	0.380	LTN70APP15AA000

## Tap-off unit with polarization N/L2 with a cable



### Purpose:

- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

### Characteristics:

- fixing bracket color is blue (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 3x1 mm<sup>2</sup> H05Z1Z1F cable is 8 mm;
- diameter of 3x1.5 mm<sup>2</sup> FG07M1 cable is 12.5 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L2+PE	4P, 6P, 4P+4P, 4P+2P (installation to 4P), 6P+6P	blue	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.106	LTN70APP02AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.245	LTN70APP22AA000
				3000	H05Z1Z1F 3x1 mm <sup>2</sup>	0.280	LTN70APP12AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.820	LTN70APP32AA000

## Tap-off unit with polarization N/L2+L4/L5 with a cable



### Purpose:

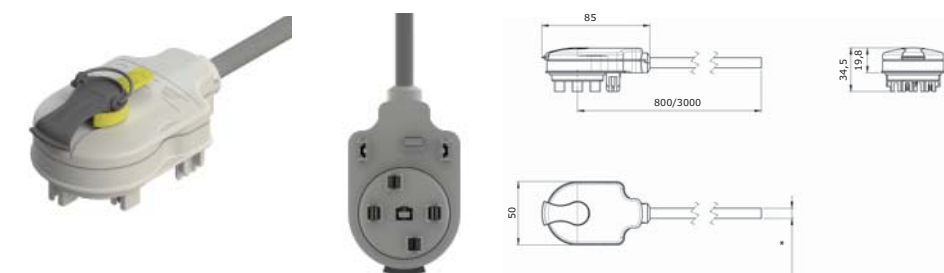
- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

### Characteristics:

- color of a fixing bracket is light-blue (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 5x1 mm<sup>2</sup> H05Z1Z1F cable is 9.8 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L2+L4/L5+PE	6P, 6P+6P	light-blue	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.126	LTN70APP06AA000
				3000	H05Z1Z1F 5x1 mm <sup>2</sup>	0.380	LTN70APP16AA000

## Tap-off unit with polarization N/L3 with a cable


**Purpose:**

- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

**Characteristics:**

- color of a fixing bracket is dark-gray (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 3x1 mm<sup>2</sup> H05Z1Z1F cable is 8 mm;
- diameter of 3x1.5 mm<sup>2</sup> FG07M1 cable is 12.5 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L3+PE	2P, 4P, 6P, 2P+2P, 4P+4P, 4P+2P, 6P+6P	dark-gray	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.106	LTN70APP03AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.245	LTN70APP23AA000
				3000	H05Z1Z1F 3x1 mm <sup>2</sup>	0.180	LTN70APP13AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.820	LTN70APP33AA000

## Tap-off unit with polarization N/L3+L4/L5 with a cable


**Purpose:**

- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

**Characteristics:**

- color of a fixing bracket is yellow (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 5x1 mm<sup>2</sup> H05Z1Z1F cable is 9.8 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L3+L4/L5+PE	6P, 6P+6P	yellow	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.126	LTN70APP07AA000
				3000	H05Z1Z1F 5x1 mm <sup>2</sup>	0.380	LTN70APP17AA000

## Tap-off unit with polarization L2/L3 with a cable



### Purpose:

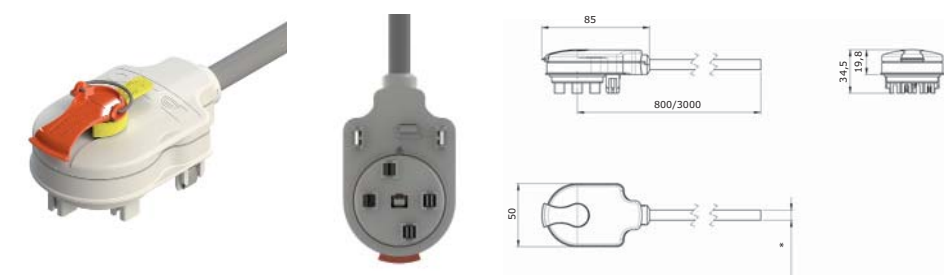
- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

### Characteristics:

- color of a fixing bracket is brown (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 3x1 mm<sup>2</sup> H05Z1Z1F cable is 8 mm;
- diameter of 3x1.5 mm<sup>2</sup> FG07M1 cable is 12.5 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	L2/L3+PE	4P, 6P, 4P+4P, 4P+2P (installation to 4P), 6P+6P	brown	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.106	LTN70APP04AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.245	LTN70APP24AA000
				3000	H05Z1Z1F 3x1 mm <sup>2</sup>	0.280	LTN70APP14AA000
					FG07M1 3x1,5 mm <sup>2</sup>	0.820	LTN70APP34AA000

## Tap-off unit with polarization L2/L3+L4/L5 with a cable



### Purpose:

- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

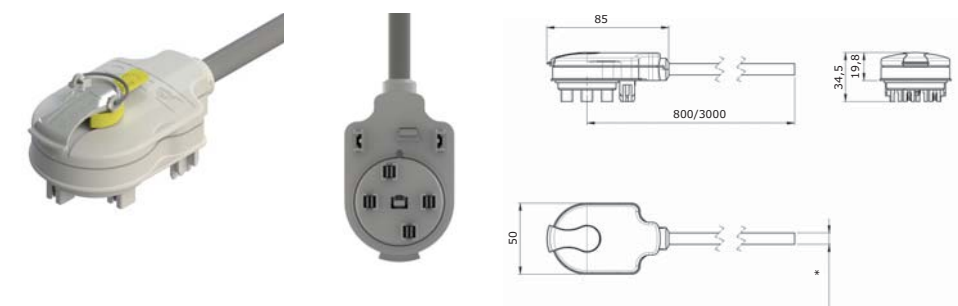
### Characteristics:

- color of a fixing bracket is orange (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 5x1 mm<sup>2</sup> H05Z1Z1F cable is 9.8 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	L2/L3+L4/L5+PE	6P, 6P+6P	orange	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.126	LTN70APP08AA000
				3000	H05Z1Z1F 5x1 mm <sup>2</sup>	0.380	LTN70APP18AA000



## Tap-off unit with polarization N/L1/L2/L3 with a cable



### Purpose:

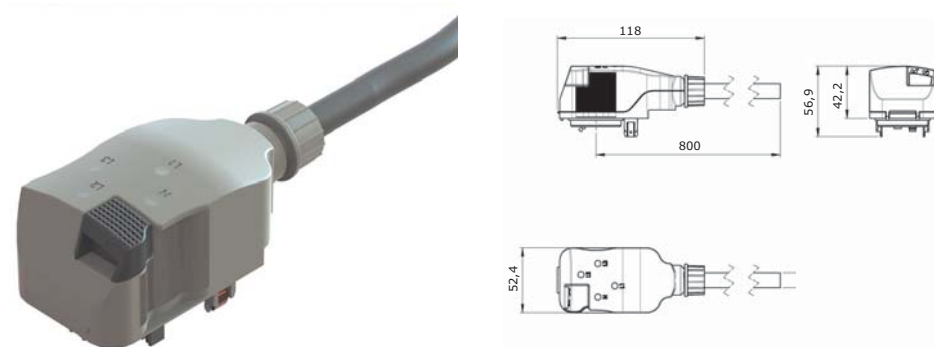
- connection of light fixtures to a busbar run at plug-in points (the device for detachable contact junction of light fixtures with sections).

### Characteristics:

- color of a fixing bracket is light-gray (different colors provide convenience of indication of the phase the unit is powered from);
- diameter of 5x1 mm<sup>2</sup> H05Z1Z1F cable is 9.8 mm.

Rated current, A	Configuration of conductors (set phases)	Compatibility with a busbar type	Color of fixing bracket	Cable length, mm	Type of cable	Weight, kg	Code
10	N/L1/L2/L3+PE	4P, 6P, 4P+4P, 4P+2P (installation to 4P), 6P+6P	light-gray	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.126	LTN70APP09AA000
				3000	H05Z1Z1F 5x1 mm <sup>2</sup>	0.380	LTN70APP19AA000

## Tap-off unit with phase selection and with a cable



### Purpose:

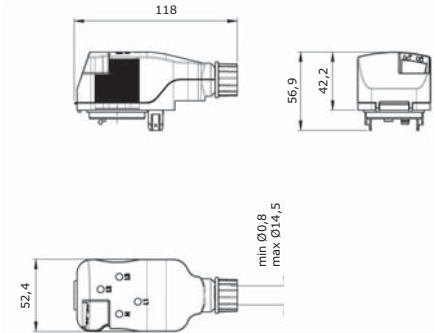
- connection of power sockets, presence detectors, regulators of lighting, emergency lighting, various light fixtures to a busbar run at plug-in points.

### Characteristics:

- connection to different phases is possible by shifting contacts;
- H05Z1Z1F cable with section of 3x1 mm<sup>2</sup> – diameter is 8 mm, minimum bend radius of the cable is 60 mm, temperature range at bends is from –5 to +70 °C; from –40 to +70 °C if static; halogen free;
- H05Z1Z1F cable with section of 5x1 mm<sup>2</sup> – diameter is 9.8 mm, minimum bend radius of the cable is 74 mm, temperature range at bends is from –5 to +70 °C; from –40 to +70 °C if static; halogen free;
- N/L means compatibility with any lighting busbar (2P, 4P, 6P, 2P+2P, 4P+4P, 4P+2P, 6P+6P);
- N/L+L4/L5 means compatibility with 6P, 6P+6P.

Rated current, A	Configuration of conductors	Furnishing with a fuse	Cable length, mm	Type of cable	Weight, kg	Code
6.3	N/L+PE	with a fuse 5x20 mm	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.179	LTN70APS07AA000
	N/L+L4/L5+PE	with a fuse 5x20 mm	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.228	LTN70APS08AA000
16	N/L+PE	without a fuse	800	H05Z1Z1F 3x1 mm <sup>2</sup>	0.133	LTN70APS09AA000
	N/L+L4/L5+PE	without a fuse	800	H05Z1Z1F 5x1 mm <sup>2</sup>	0.223	LTN70APS10AA000

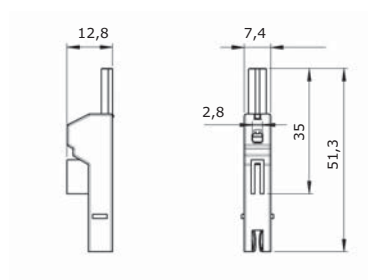
Tap-off unit with phase selection and without a cable



- Purpose:**
- connection of power sockets, presence detectors, regulators of lighting, emergency lighting, various light fixtures to a busbar run at plug-in points.
- Characteristics:**
- connection to different phases is possible by shifting contacts;
  - entry of cables with outside diameter of 8 to 14 mm is possible;
  - N/L means compatibility with any lighting busbar (2P, 4P, 6P, 2P+2P, 4P+4P, 4P+2P, 6P+6P);
  - N/L+L4/L5 means compatibility with 6P, 6P+6P.

Rated current, A	Configuration of conductors	Furnishing with a fuse	Weight, kg	Code
16	N/L+PE	without a fuse	0.069	LTN70APS01AA000
16		with a fuse 8.5x31.5 mm	0.074	LTN70APS02AA000
6.3		with a fuse 5x20 mm	0.071	LTN70APS03AA000
16	N/L+L4/L5+PE	without a fuse	0.065	LTN70APS04AA000
16		with a fuse 8.5x31.5 mm	0.075	LTN70APS05AA000
6.3		with a fuse 5x20 mm	0.071	LTN70APS06AA000

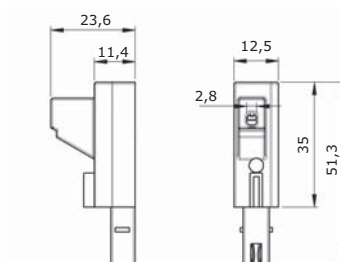
## 16 A mobile contact for tap-off unit with phase selection


**Purpose:**

- establishment of a protected power tap-off.

Rated current, A	Parameters	Weight, kg	Code
16	N – neutral protection	0.005	LTN70ZMC01AA000
	L-phase without a fuse	0.005	LTN70ZMC02AA000

## Mobile contact with 16 A fuse for tap-off unit with phase selection


**Purpose:**

- establishment of a protected power tap-off.

**Characteristics:**

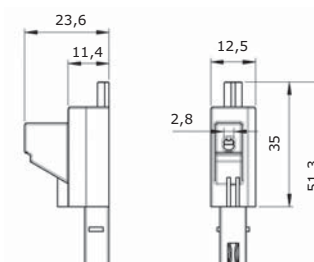
- material is PA6 nylon;
- color is black.

**Complete set:**

- fuse 8.5x31.5 mm, 16 A, 400 V, I1 is over 20 kA.

Rated current, A	Parameters	Weight, kg	Code
16	L-phase with fuse 8.5x31.5 mm	0.012	LTN70ZMC03AA000
	L-phase without a fuse	0.005	LTN70ZMC02AA000

## Mobile contact with 6.3 A fuse for tap-off unit with phase selection


**Purpose:**

- establishment of a protected power tap-off.

**Characteristics:**

- material is PA6 nylon;
- color is black.

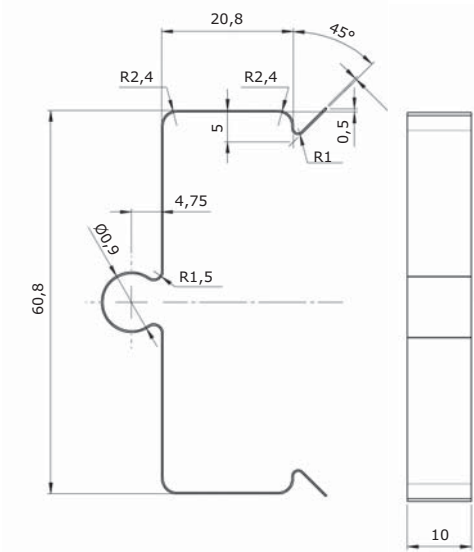
**Complete set:**

- fuse 5x20 mm, 250 V.

Rated current, A	Parameters	Weight, kg	Code
6.3	L-phase with fuse 5x20 mm	0.011	LTN70ZMC04AA000
	L-phase without a fuse	0.005	LTN70ZMC02AA000

Accessories

Cable fixing bracket on a lighting busbar



**Purpose:**

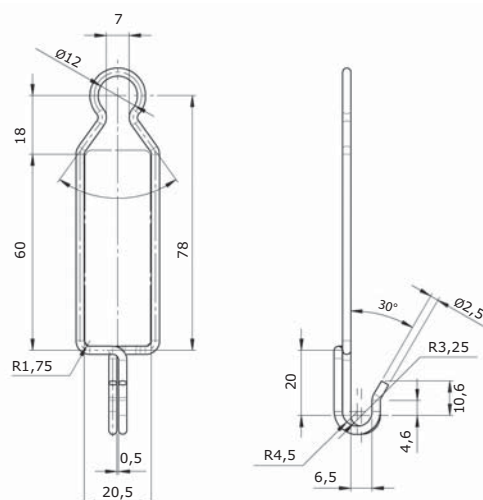
- aesthetic attachment of a cable from a tap-off unit to a busbar enclosure.

**Characteristics:**

- material is stainless steel;
- fixing bracket is installed on the busbar straight element by latching;
- to avoid non-aesthetic deflection of a cable, it is recommended to install the fixing brackets with a spacing of about 300 mm.

Name	Purpose		Weight, kg	Code
	busbar type	number of conductors in a busbar		
Cable fixing bracket for busbar	for a single busbar	2P	0.004	LTN70PFIU7AA000
		4P		
		6P		
	for a double busbar	2P+2P	0.005	LTN70QFIU7AA000
		4P+4P		
		4P+2P		
		6P+6P		

## Single busbar holder with a hook for a rope or a chain



### Purpose:

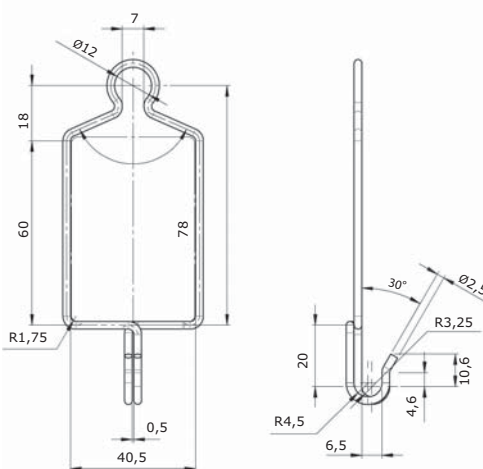
- attachment of a busbar to DKC steel wire rope of series "M5 Combitech" by suspension on the upper holder hinge (for example, code CM620100);
- attachment of a busbar by suspension on DKC chain of series "M5 Combitech" (code CM610010);
- attachment of light fixtures or other equipment to a busbar by suspension on the lower double hook.

### Characteristics:

- material is stainless steel;
- allowable load is 81 kg (SOL with the reserve of 1.7);
- for the maximum diameter of a rope or a chain of 7 mm.

Purpose		Allowable load (SOL), kg	Bearable load from the weight of light fixtures (with 5-fold safety factor according to GOST 26346-84 cl. 3.11)	Holder weight, kg	Code
busbar type	number of conductors in a busbar				
For a single busbar	2P	81	25	0.001	LTN70PFIU2AA000
	4P				
	6P				

## Double busbar holder with a hook for a rope or a chain



### Purpose:

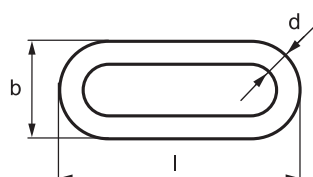
- attachment of a busbar to DKC steel wire rope of series "M5 Combitech" by suspension on the top holder hinge (for example, code CM620100);
- attachment of light fixtures to a busbar by suspension on the lower double hook.

### Characteristics:

- material is stainless steel;
- allowable load is 81 kg (SOL with the reserve of 1.7);
- for the maximum diameter of a rope or a chain of 7 mm.

Purpose		Allowable load (SOL), kg	Bearable load from the weight of light fixtures (with 5-fold safety factor according to GOST 26346-84 cl. 3.11)	Holder weight, kg	Code
busbar type	number of conductors in a busbar				
For a double busbar	2P+2P	81	25	0.013	LTN70QFIU2AA000
	4P+4P				
	4P+2P				
	6P+6P				

## Circuit



### Purpose:

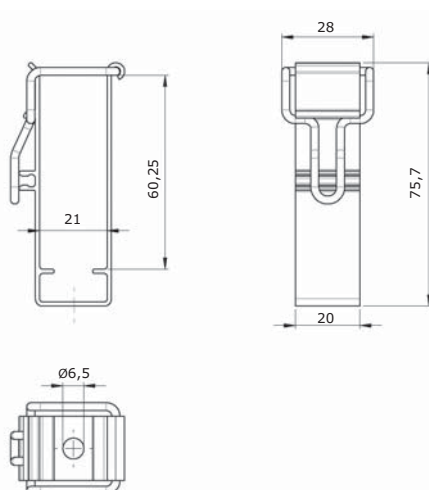
- suspension of low-loaded cable routes.

### Distinctive features:

- high installation speed;
- possibility of organization of suspension at high altitude.

Shackle thickness d, mm	Shackle length l, mm	Shackle width B, mm	Max. load, kg	Q-ty in a package, m	Package weight, kg	Code, version 1
2.5	29	10	55	30	3.21	CM610010

## Ordinary single busbar holder


**Purpose:**

- attachment of a busbar to bearing surfaces and elements (consoles and brackets).

**Characteristics:**

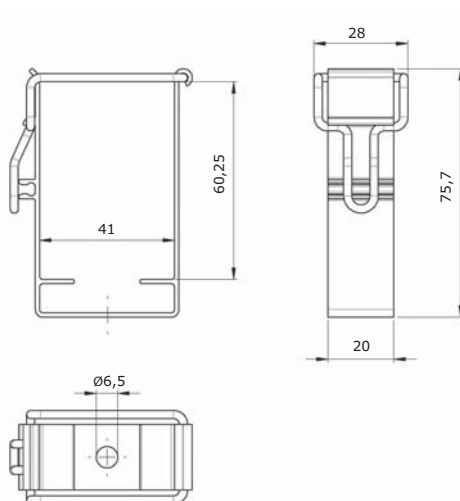
- allowable load is 93 kg (SOL with the reserve of 1.7);
- holder material is aluminum;
- fixing bracket (lock) material is steel;
- hole with diameter of 6.5 mm for attachment;
- type of installation – by latching;
- in case rigid attachment of the latch is required additionally install a half-spherical self-tapping screw with a flat lug PH 3.5x6.5 mm.

**Complete set:**

- holder with a fixing bracket (lock) without screws.

Purpose		Allowable load (SOL), kg	Bearable load from the weight of light fixtures (with 5-fold safety factor according to GOST 26346-84 cl. 3.11)	Holder weight, kg	Code
busbar type	number of conductors in a busbar				
For a single busbar	2P	93	28	0.019	LTN70PFIU1AA000
	4P				
	6P				

## Ordinary double busbar holder


**Purpose:**

- attachment of a busbar to bearing surfaces and elements (consoles and brackets).

**Characteristics:**

- allowable load is 69.5 kg (SOL with the reserve of 1.7);
- holder material is aluminum;
- fixing bracket (lock) material is steel;
- hole with diameter of 6.5 mm for attachment;
- type of installation – by latching;
- in case rigid attachment of the latch is required additionally install a half-spherical self-tapping screw with a flat lug PH 3.5x6.5 mm.

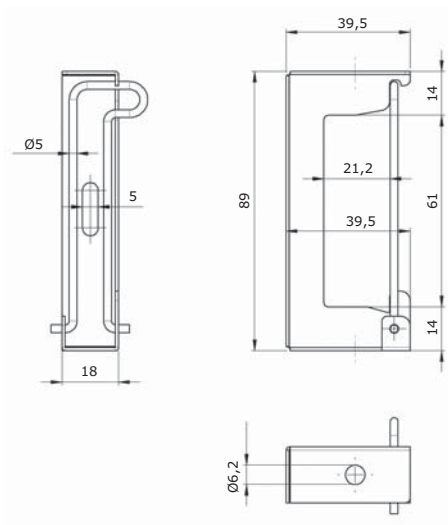
**Complete set:**

- holder with a fixing bracket (lock) without screws.

Purpose		Allowable load (SOL), kg	Bearable load from the weight of light fixtures (with 5-fold safety factor according to GOST 26346-84 cl. 3.11)	Holder weight, kg	Code
busbar type	number of conductors in a busbar				
For a double busbar	2P+2P	69.5	21	0.023	LTN70QFIU1AA000
	4P+4P				
	4P+2P				
	6P+6P				



## Universal single busbar holder


**Purpose:**

- attachment of a busbar to bearing surfaces (walls, ceilings) or elements, for which purpose there are special holes on three sides of a holder;
- attachment of a cable duct holder to a busbar (code LTN70ZFUI4AA000);
- attachment of light fixtures and other equipment to a busbar.

**Characteristics:**

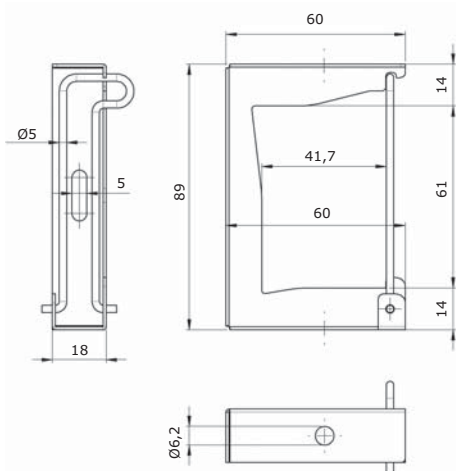
- lower and upper holes are designed for a threaded hook, a stud, a bolt or a screw with diameter of up to 6 mm;
- side slot hole for a fastener with diameter of up to 5 mm.

**Complete set:**

- holder with a fixing bracket (lock) without screws.

Purpose		Holder weight, kg	Code
busbar type	number of conductors in a busbar		
For a single busbar	2P	0.042	LTN70PFUI3AA000
	4P		
	6P		

## Universal holder of a double busbar


**Purpose:**

- attachment of a busbar to bearing surfaces (walls, ceilings) or elements, for which purpose there are special holes on three sides of a holder;
- attachment of a cable duct holder to a busbar (code LTN70ZFUI4AA000);
- attachment of light fixtures and other equipment to a busbar.

**Characteristics:**

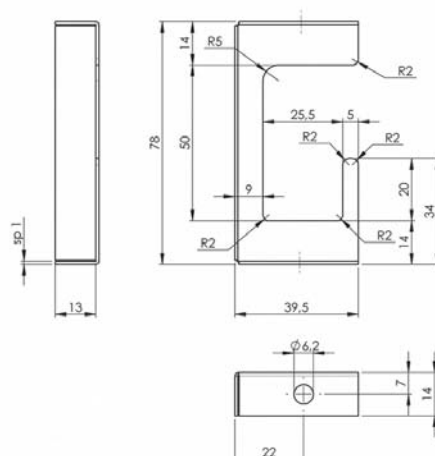
- upper and lower holes for installation of a hook (code LTN70ZFUI6AA000) or a stud (code CM200602 or CM200601), a bolt or a screw with diameter of up to 6 mm;
- side slot hole for a fastener with diameter of up to 5 mm.

**Complete set:**

- holder with a fixing bracket (lock) without screws.

Purpose		Holder weight, kg	Code
busbar type	number of conductors in a busbar		
For a double busbar	2P+2P	0.051	LTN70QFUI3AA000
	4P+4P		
	4P+2P		
	6P+6P		

## Cable duct holder on a busbar

**Purpose:**

- attachment of a cable duct on a busbar to lay control circuits.

**Characteristics:**

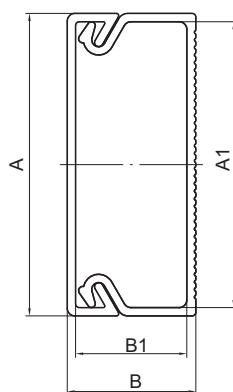
- the cable duct holder is installed on or under the straight element of a busbar to a universal holder (code LTN70PFIU3AA000 or LTN70QFIU3AA);
- attachment of the cable duct holder to a universal holder using DKC screws:
  - M6x12 bolt (code CM020612),
  - M6 washer (code CM120600),
  - M6 nut (code CM110600),
- it is recommended to use them in combination with a cable duct (miniduct with a cover) with standard size of 25x17 mm (code 00304 or 00304R);
- to avoid deflection of a cable duct with big bend, it is recommended to install holders with a spacing of about 500 mm.

**Complete set:**

- cramp holder (without screws and cable duct).

Purpose		Weight, kg	Code
busbar type	number of conductors in a busbar		
For a single busbar	2P	0.04	LTN70ZFIU4AA000
	4P		
	6P		
For a double busbar	2P+2P		
	4P+4P		
	4P+2P		
	6P+6P		

## Cable duct with a cover, PVC, 25x17 mm

**Purpose:**

- laying of control circuits.

**Installation:**

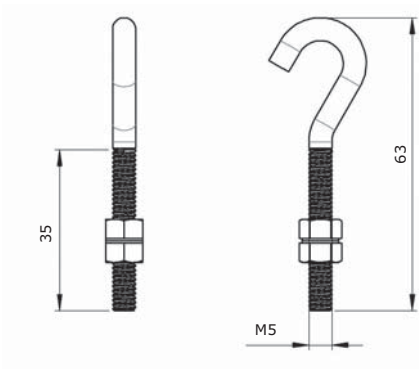
- cable duct is laid within the holder (with the cover facing upwards);
- it is recommended to displace mating points of covers and cable duct bases in relation to each other.

**Characteristics:**

- color is white RAL 9016;
- material is PVC composition;
- manufactured in segments with length of 2 meters.

Name	Dimensions				Inner dimension area, mm <sup>2</sup>	Number of cables depending on their section (capacity based on the example of PV3), pcs				Weight, kg/m	Package	Code
	A	B	A1	B1		1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	6 mm <sup>2</sup>			
Miniduct of TMC type of "In-liner" series, standard size 25/1x17 mm with a standard removable cover	25	17	23	15	301	21	14	11	5	0.179	wholesale	00304
											retail	00304R

Open attaching hook



- Purpose:**
- suspension of a busbar holder on a rope or a chain;
  - suspension of light fixtures and other equipment to a busbar using holders and hooks.
- Characteristics:**
- thread diameter is M5;
  - hook is inserted with its threaded end into a hole of a busbar holder (hole diameter is 6.2 mm);
  - inside diameter of a hook bend is 10 mm;
  - hook is compatible with a DKC chain (code CM610010);
  - hook is compatible with DKC ropes, including the rope under code CM620050.
- Complete set:**
- 1 hook;
  - 2 nuts;
  - 1 lock washer.

Purpose		Code
busbar type	number of conductors in a busbar	
for a single busbar	2P	LTN70ZFIU6AA000
	4P	
	6P	
for a double busbar	2P+2P	
	4P+4P	
	4P+2P	
	6P+6P	



# **HERCULES**

## **"Distritech" busbar for 160–800 A**

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## "Distritech" busbar for 160–800 A

### System description

"Distritech" distribution busbar is a medium power busbar used as a power line in a system with rated current from 160 to 800 A and possibility of connection of a large number of customers through a run and possibility of real-time movement and adding. Structurally the busbar represents a system of buses with air insulation put together in an aluminum enclosure.

### Application

The distribution busbar is used in construction to provide electrical connection of electrotechnical equipment in alternating current circuits with voltage of up to 1 kV and rated current of up to 800 A. "Distritech" system includes a complete set of elements necessary for assembly of a run of any complexity. "Distritech" distribution busbar corresponds to the latest Russian and European regulations. Each element passes a full set of tests after the manufacture.



**Production lines**



**Residential developments**



**Sports facilities**

### Advantages

- conformity to new GOST IEC 61439-1-2013 and GOST IEC 61439-6-2013 standards;
- aluminum enclosure with section area allowing using the enclosure as a PE-conductor;
- applied materials allow using in humid media;
- high protection degree IP55;
- easy and quick installation;
- safe installation and removal of power takeoff device.

## Technical data of busbars with aluminum conductors

Characteristics		Values				
Rated operational current (40 °C) I <sub>n</sub> , A		160	250	400	500	630
Rated operating voltage U <sub>e</sub> , V		1000				
Rated insulation voltage U <sub>i</sub> , V		1000				
Rated frequency f <sub>n</sub> , Hz		50				
Conductors						
Phase bus section S, mm²		85	137	265	265	355
Conductor material		AL 6060 aluminum alloy				
Protective conductor (enclosure, box)						
Busbar enclosure material		AL 6060 aluminum alloy				
Conductor section S, mm²		765	816	884	884	952
Conductor section similar to copper S, mm²		461	492	533	533	573
Other characteristics						
Enclosure overall dimensions, mm	width	140				
	height	58	73	93	93	113
Class of insulation thermal resistance (limiting temperature at long-term operation)		F (155 °C)				
Protection degree		IP55				
Standards		TR CU 004/2011, FL No. 123-Φ3				
Service life before busbar replacement		25 years				

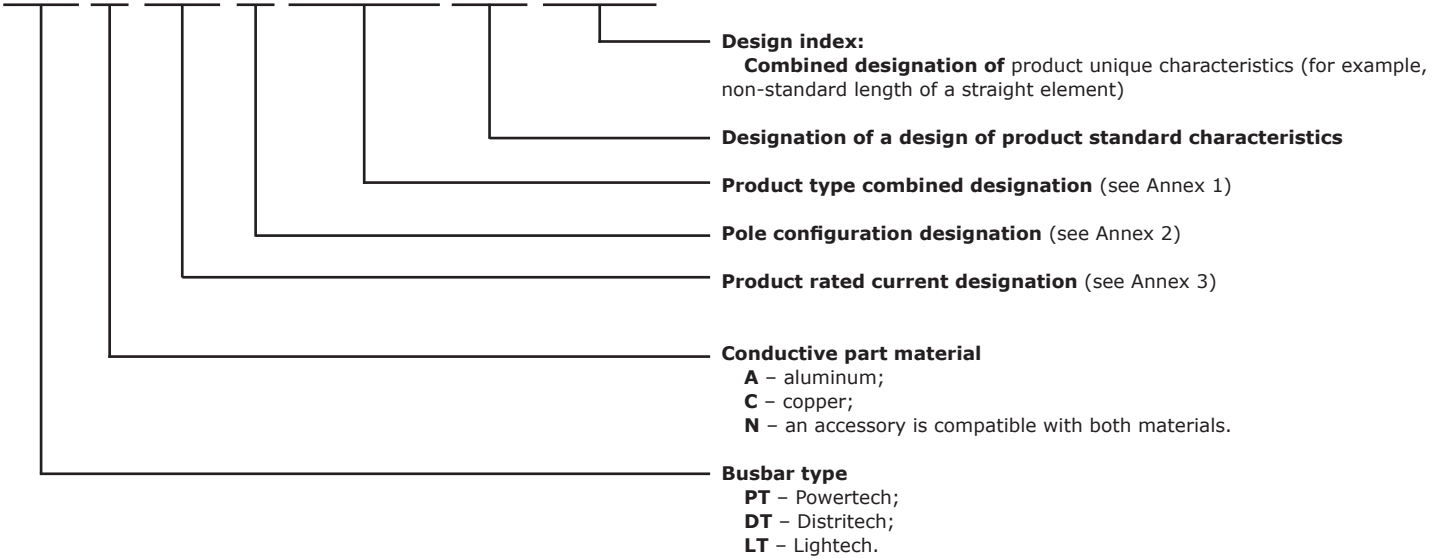
## Technical data of busbar with copper conductors

Characteristics		Values				
Rated operational current (40 °C) $I_n$ , A		250	400	500	630	800
Rated operating voltage $U_e$ , V		1000				
Rated insulation voltage $U_i$ , V		1000				
Rated frequency $f_n$ , Hz		50				
Conductors						
Phase bus section $S$ , mm <sup>2</sup>		85	137	265	265	355
Conductor material		ETP 99 9 electrolytic copper				
Protective conductor (enclosure, box)						
Busbar enclosure material		AL 6060 aluminum alloy				
Conductor section $S$ , mm <sup>2</sup>		765	816	884	884	952
Conductor section similar to copper $S$ , mm <sup>2</sup>		461	492	533	533	573
Other characteristics						
Enclosure overall dimensions, mm	width	140				
	height	58	73	93	93	113
Class of insulation thermal resistance (limiting temperature at long-term operation)		F (155 °C)				
Protection degree		IP55				
Standards		TR CU 004/2011, FL No. 123-Φ3				
Service life before busbar replacement		25 years				



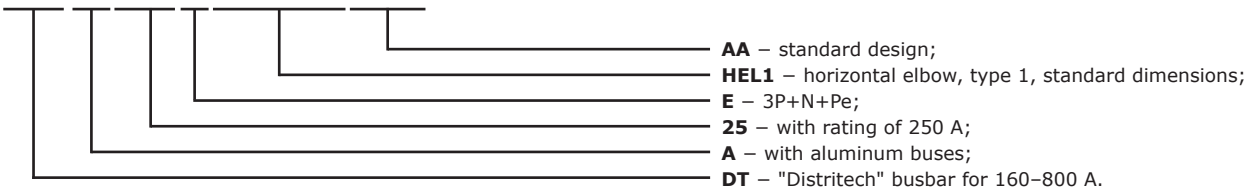
Coding system

XX X XX X XXXX XX XXX



Example use

DTA25EHEL1AA



### Annex 1. Product type combined designation

SEF1	straight element of a standard length, 3000 mm
SEF2	straight element of a random length, 500–2999 mm
SP01	straight element with 3 plug-in points, 3000 mm
SP02	straight element with 3+3 plug-in points, 3000 mm
SP11	straight element with 1 plug-in point, random dimensions
SP12	straight element with 2 plug-in points, random dimensions
SP13	straight element with 3 plug-in points, random dimensions
SP14	straight element with 4 plug-in points, random dimensions
SP15	straight element with 5 plug-in points, random dimensions
SP16	straight element with 6 plug-in points, random dimensions
SP17	straight element with 7 plug-in points, random dimensions
SP18	straight element with 8 plug-in points, random dimensions
SP19	straight element with 9 plug-in points, random dimensions
SP10	straight element with 10 plug-in points, random dimensions
SP21	straight element with 1+1 plug-in points, random dimensions
SP22	straight element with 2+2 plug-in points, random dimensions
SP23	straight element with 3+3 plug-in points, random dimensions
SP24	straight element with 4+4 plug-in points, random dimensions
SP25	straight element with 5+5 plug-in points, random dimensions
HEL1	horizontal elbow, type 1
HEL2	horizontal elbow, type 2
HEL3	horizontal elbow, type 1, random dimensions
HEL4	horizontal elbow, type 2, random dimensions
VEL1	vertical elbow, type 1, standard dimensions
VEL2	vertical elbow, type 2, standard dimensions
VEL3	vertical elbow, type 1, random dimensions
VEL4	vertical elbow, type 2, random dimensions
TST1	section of entry into a board, type 1
TST2	section of entry into a board, type 2
FED1	feeder, type 1
FED2	feeder, type 2

### Annex 2. Pole configuration designation

E	3P+N
G	3P+N+Fe
I	3P+N+0,5Fe
Pe function is performed by a busbar enclosure	

### Annex 3. Busbar rated current designation or accessory designation

16	160 A
25	250 A
40	400 A
50	500 A
63	630 A
80	800 A
90	accessories

## Straight element feeder



### Purpose:

- building of straight elements of a busbar run.

### Characteristics:

- protection degree IP55;
- aluminum enclosure as a PE-conductor;
- lengths are specified between axes of monoblocks.

Rated current, A	Design	Code
160	3P + N + PE (enclosure)	DTA16E <b>SEF</b> 1AA
250	3P + N + PE (enclosure)	DTA25E <b>SEF</b> 1AA
400	3P + N + PE (enclosure)	DTA40E <b>SEF</b> 1AA
500	3P + N + PE (enclosure)	DTA50E <b>SEF</b> 1AA
630	3P + N + PE (enclosure)	DTA63E <b>SEF</b> 1AA

### Coding

SEF1 = length of 3000 mm  
SEF215 = length of 1000–1500 mm  
SEF220 = length of 1501–2000 mm  
SEF225 = length of 2001–2500 mm  
SEF230 = length of 2501–3000 mm

### Designs

3P+N+PE (enclosure)	DTA16E <b>SEF</b> 1AA
3P+N+FE (bus)+PE (enclosure)	DTA16 <b>G</b> SEF1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16 <b>I</b> SEF1AA

## Straight element distribution



### Purpose:

- organization of power tap-off from a busbar.

### Characteristics:

- protection degree IP55;
- aluminum enclosure as a PE-conductor;
- lengths are specified between axes of monoblocks;
- connection and disconnection of boxes can be performed without disconnection of a busbar from the system;
- distance between plug-in points can be changed by agreement with a customer.

Rated current, A	Designs	Code
160	3P+N+PE (enclosure)	DTA16ESP01AA
250	3P+N+PE (enclosure)	DTA25ESP01AA
400	3P+N+PE (enclosure)	DTA40ESP01AA
500	3P+N+PE (enclosure)	DTA50ESP01AA
630	3P+N+PE (enclosure)	DTA63ESP01AA

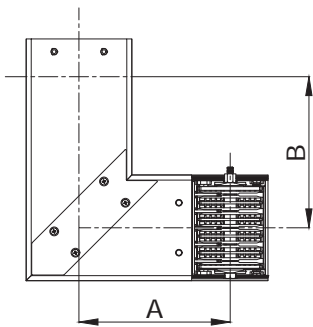
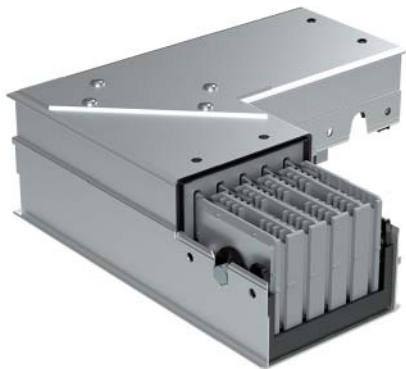
### Coding

ESP01AA = 3000 mm, 3 plug-in points on one side  
 ESP0115 = 1000–1500 mm, 3 plug-in points on one side  
 ESP0120 = 1501–2000 mm, 3 plug-in points on one side  
 ESP0125 = 2001–2500 mm, 3 plug-in points on one side  
 ESP0130 = 2501–3000 mm, 3 plug-in points on one side  
 ESP01FB = 3 plug-in points on one side, with a fire-resistant baffle  
 ESP02AA = 3000 mm, 3 plug-in points on both sides  
 ESP0215 = 1000–1500 mm, 3 plug-in points on both sides  
 ESP0220 = 1501–2000 mm, 3 plug-in points on both sides  
 ESP0225 = 2001–2500 mm, 3 plug-in points on both sides  
 ESP0230 = 2501–3000 mm, 3 plug-in points on both sides  
 ESP02FB = 3 plug-in points on both sides, with a fire-resistant baffle

### Designs

3P+N+PE (enclosure)	DTA16ESP01AA
3P+N+FE (bus)+PE (enclosure)	DTA16GSP01AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16ISP01AA

Horizontal elbow, type 1



- Purpose:**
- horizontal run bend.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>HEL1</b> AA
250	3P + N + PE (enclosure)	DTA25E <b>HEL1</b> AA
400	3P + N + PE (enclosure)	DTA40E <b>HEL1</b> AA
500	3P + N + PE (enclosure)	DTA50E <b>HEL1</b> AA
630	3P + N + PE (enclosure)	DTA63E <b>HEL1</b> AA

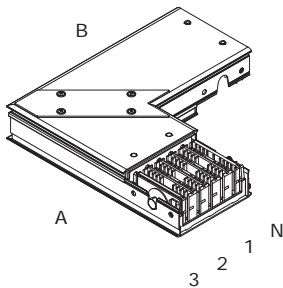
Coding

HEL1 = horizontal elbow, type 1  
HEL2 = horizontal elbow, type 2  
HEL3 – horizontal elbow, type 1, random dimensions  
HEL4 – horizontal elbow, type 2, random dimensions

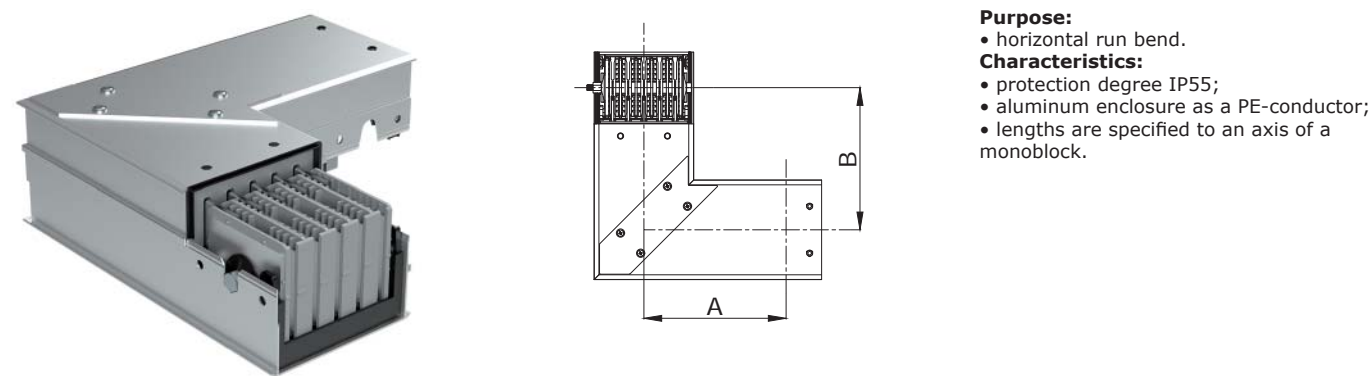
Designs

3P+N+PE (enclosure)	DTA16E <b>HEL1</b> AA
3P+N+FE (bus)+PE (enclosure)	DTA16 <b>G</b> HEL1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16 <b>I</b> HEL1AA

Type 1



Horizontal elbow, type 2



Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>HEL2</b> AA
250	3P + N + PE (enclosure)	DTA25E <b>HEL2</b> AA
400	3P + N + PE (enclosure)	DTA40E <b>HEL2</b> AA
500	3P + N + PE (enclosure)	DTA50E <b>HEL2</b> AA
630	3P + N + PE (enclosure)	DTA63E <b>HEL2</b> AA

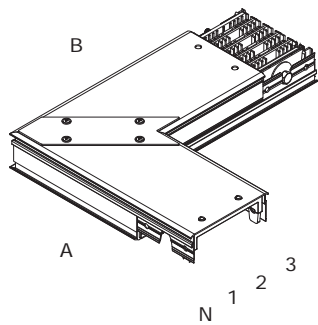
**Coding**

HEL1 = horizontal elbow, type 1  
HEL2 = horizontal elbow, type 2  
HEL3 – horizontal elbow, type 1, random dimensions  
HEL4 – horizontal elbow, type 2, random dimensions

Designs

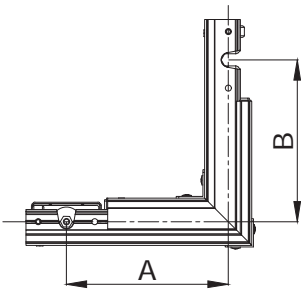
3P+N+PE (enclosure)	DTA16 <b>E</b> HEL2AA
3P+N+FE (bus)+PE (enclosure)	DTA16 <b>G</b> HEL2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16 <b>I</b> HEL2AA

Type 2





Vertical elbow, type 1



- Purpose:**
- vertical run bend.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

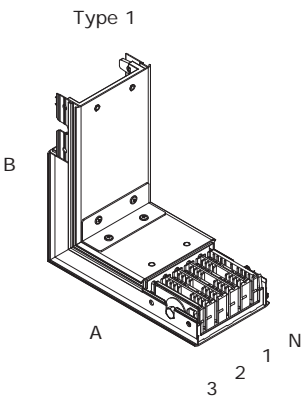
Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>VEL</b> 1AA
250	3P + N + PE (enclosure)	DTA25E <b>VEL</b> 1AA
400	3P + N + PE (enclosure)	DTA40E <b>VEL</b> 1AA
500	3P + N + PE (enclosure)	DTA50E <b>VEL</b> 1AA
630	3P + N + PE (enclosure)	DTA63E <b>VEL</b> 1AA

Coding

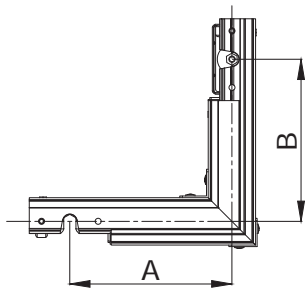
VEL1 = vertical elbow, type 1, standard dimensions;  
VEL2 = vertical elbow, type 2, standard dimensions;  
VEL3 = vertical elbow, type 1, random dimensions  
VEL4 = vertical elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTA16E <b>VEL</b> 1AA
3P+N+FE (bus)+PE (enclosure)	DTA16G <b>VEL</b> 1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16I <b>VEL</b> 1AA



Vertical elbow, type 2



- Purpose:**
- vertical run bend.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

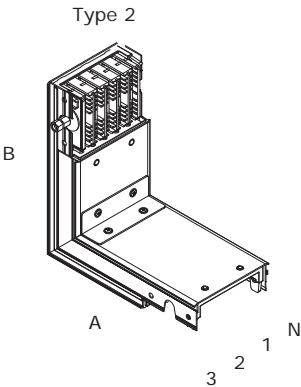
Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>VEL2</b> AA
250	3P + N + PE (enclosure)	DTA25E <b>VEL2</b> AA
400	3P + N + PE (enclosure)	DTA40E <b>VEL2</b> AA
500	3P + N + PE (enclosure)	DTA50E <b>VEL2</b> AA
630	3P + N + PE (enclosure)	DTA63E <b>VEL2</b> AA

Coding

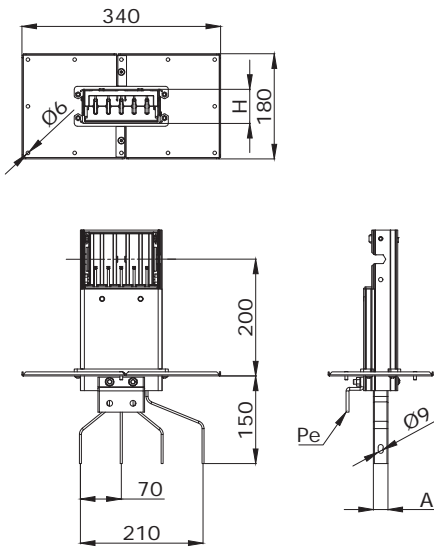
VEL1 = vertical elbow, type 1, standard dimensions;  
VEL2 = vertical elbow, type 2, standard dimensions;  
VEL3 = vertical elbow, type 1, random dimensions  
VEL4 = vertical elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTA16E <b>VEL2</b> AA
3P+N+FE (bus)+PE (enclosure)	DTA16G <b>VEL2</b> AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16I <b>VEL2</b> AA



Terminal switchboard, type 1



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16ETST1AA
250	3P + N + PE (enclosure)	DTA25ETST1AA
400	3P + N + PE (enclosure)	DTA40ETST1AA
500	3P + N + PE (enclosure)	DTA50ETST1AA
630	3P + N + PE (enclosure)	DTA63ETST1AA

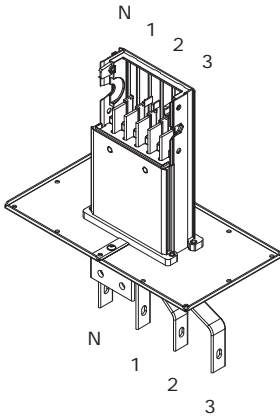
Coding

TST1 = terminal switchboard, type 1  
TST2 = terminal switchboard, type 2

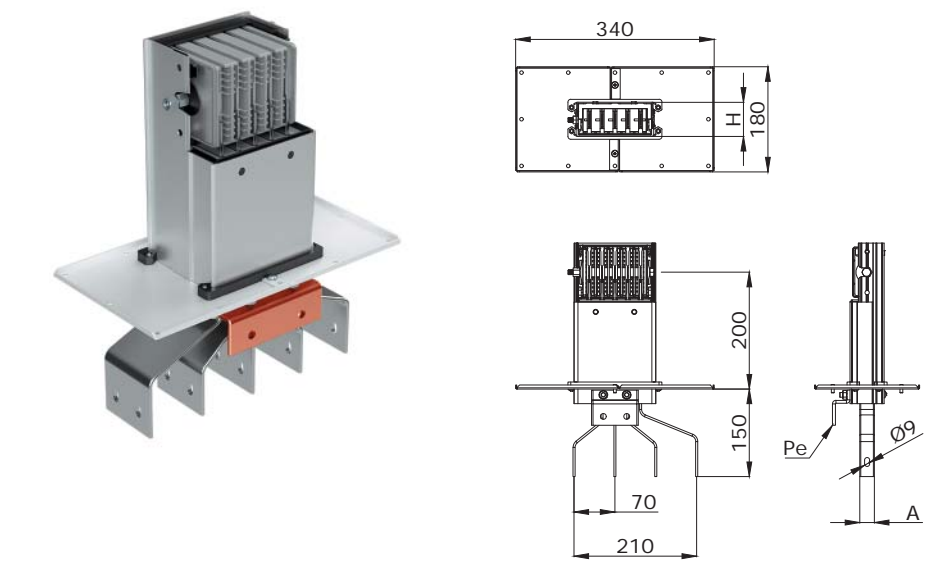
Designs

3P+N+PE (enclosure)	DTA16ETST1AA
3P+N+FE (bus)+PE (enclosure)	DTA16GTST1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16ITST1AA

Type 1  
without connection element



Terminal switchboard/transformer, type 2



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16ETST2AA
250	3P + N + PE (enclosure)	DTA25ETST2AA
400	3P + N + PE (enclosure)	DTA40ETST2AA
500	3P + N + PE (enclosure)	DTA50ETST2AA
630	3P + N + PE (enclosure)	DTA63ETST2AA

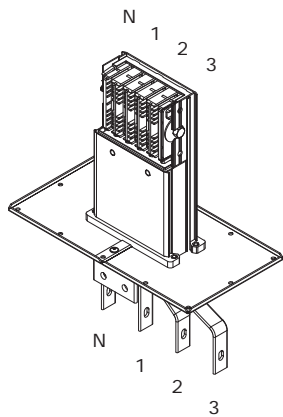
Coding

TST1 = terminal switchboard, type 1  
TST2 = terminal switchboard, type 2

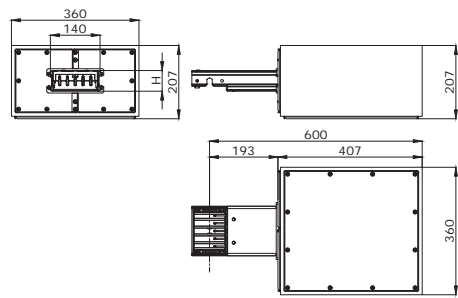
Designs

3P+N+PE (enclosure)	DTA16ETST2AA
3P+N+FE (bus)+PE (enclosure)	DTA16GTST2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16ITST2AA

Type 2  
with connection element



Feeder, type 1



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- protection degree IP55;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure of a busbar as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>FED1</b> AA
250	3P + N + PE (enclosure)	DTA25E <b>FED1</b> AA
400	3P + N + PE (enclosure)	DTA40E <b>FED1</b> AA
500	3P + N + PE (enclosure)	DTA50E <b>FED1</b> AA
630	3P + N + PE (enclosure)	DTA63E <b>FED1</b> AA

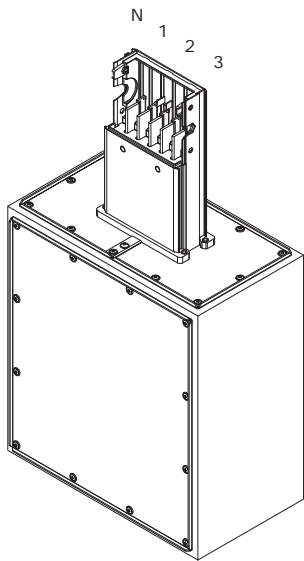
Coding

FED1 = feeder, type 1  
FED2 = feeder, type 2

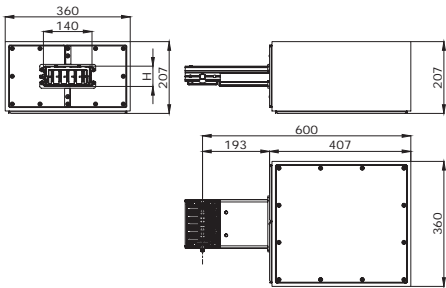
Designs

3P+N+PE (enclosure)	DTA16E <b>F</b> FED1AA
3P+N+FE (bus)+PE (enclosure)	DTA16G <b>F</b> FED1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16I <b>F</b> FED1AA

Type 1  
without connection element



Feeder, type 2



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- protection degree IP55;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure of a busbar as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
160	3P + N + PE (enclosure)	DTA16E <b>FED2</b> AA
250	3P + N + PE (enclosure)	DTA25E <b>FED2</b> AA
400	3P + N + PE (enclosure)	DTA40E <b>FED2</b> AA
500	3P + N + PE (enclosure)	DTA50E <b>FED2</b> AA
630	3P + N + PE (enclosure)	DTA63E <b>FED2</b> AA

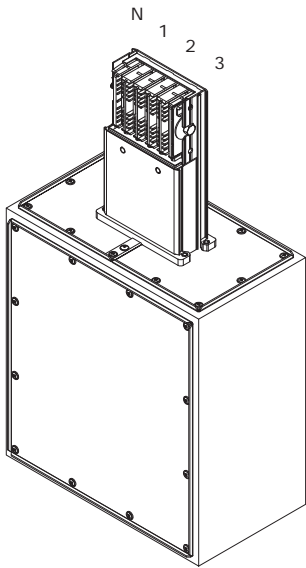
Coding

FED1 = feeder, type 1  
FED2 = feeder, type 2

Designs

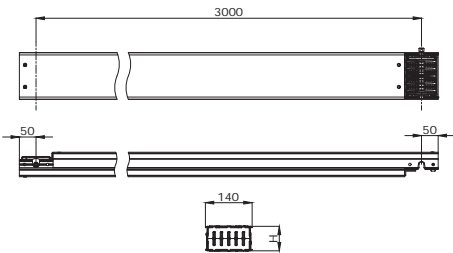
3P+N+PE (enclosure)	DTA16E <b>F</b> FED2AA
3P+N+FE (bus)+PE (enclosure)	DTA16G <b>F</b> FED2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTA16I <b>F</b> FED2AA

Type 2  
with connection element





Straight element feeder



- Purpose:**
- building of straight elements of a busbar run.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified between axes of monoblocks.

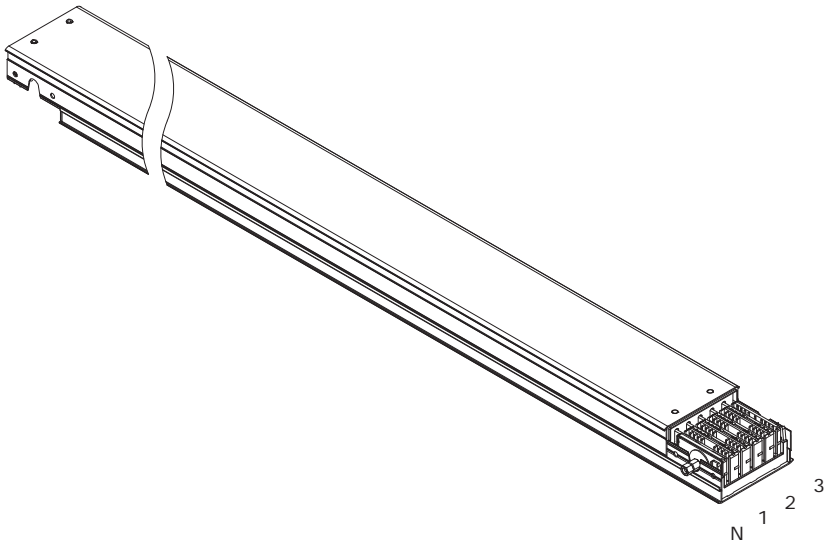
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>SEF1</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>SEF1</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>SEF1</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>SEF1</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>SEF1</b> AA

Coding

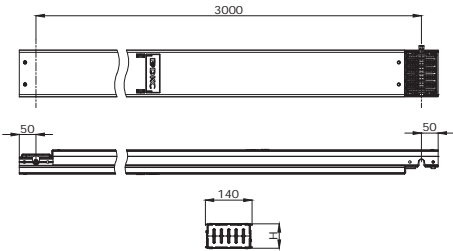
SEF1 = length of 3000 mm  
SEF215 = 1000–1500 mm  
SEF220 = length of 1501–2000 mm  
SEF225 = length of 2001–2500 mm  
SEF230 = length of 2501–3000 mm

Designs

3P+N+PE (enclosure)	DTC25E <b>SEF1</b> AA
3P+N+FE (bus)+PE (enclosure)	DTC25 <b>G</b> SEF1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25 <b>I</b> SEF1AA



Straight element distribution



- Purpose:**
- organization of power tap-off from a busbar.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified between axes of monoblocks;
  - connection and disconnection of boxes can be performed without disconnection of a busbar from the system;
  - distance between plug-in points can be changed by agreement with a customer.

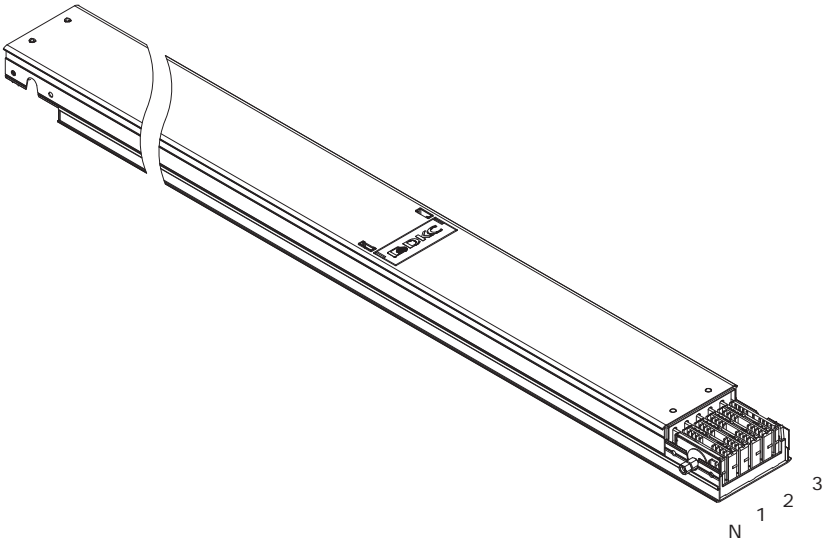
Rated current, A	Designs	Code
250	3P+N+PE (enclosure)	DTC25ESP01AA
400	3P+N+PE (enclosure)	DTC40ESP01AA
500	3P+N+PE (enclosure)	DTC50ESP01AA
630	3P+N+PE (enclosure)	DTC63ESP01AA
800	3P+N+PE (enclosure)	DTC80ESP01AA

Coding

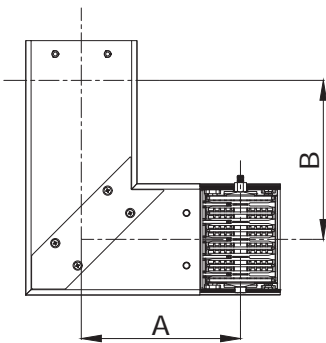
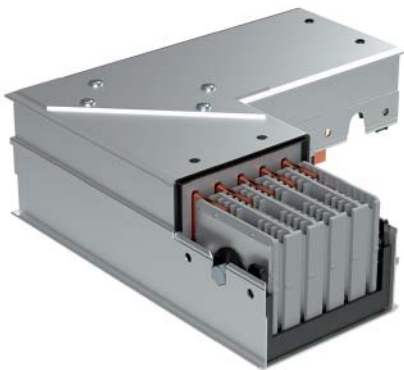
ESP01AA = 3000 mm, 3 plug-in points on one side  
ESP0115 = 1000–1500 mm, 3 plug-in points on one side  
ESP0120 = 1501–2000 mm, 3 plug-in points on one side  
ESP0125 = 2001–2500 mm, 3 plug-in points on one side  
ESP0130 = 2501–3000 mm, 3 plug-in points on one side  
ESP01FB = 3 plug-in points on one side, with a fire-resistant baffle  
ESP02AA = 3000 mm, 3 plug-in points on both sides  
ESP0215 = 1000–1500 mm, 3 plug-in points on both sides  
ESP0220 = 1501–2000 mm, 3 plug-in points on both sides  
ESP0225 = 2001–2500 mm, 3 plug-in points on both sides  
ESP0230 = 2501–3000 mm, 3 plug-in points on both sides  
ESP02FB = 3 plug-in points on both sides, with a fire-resistant baffle

Designs

3P+N+PE (enclosure)	DTC25ESP01AA
3P+N+FE (bus)+PE (enclosure)	DTC25GSP01AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25ISP01AA



Horizontal elbow, type 1



- Purpose:**
- horizontal run bend.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

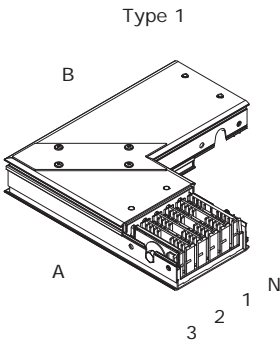
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>HEL1</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>HEL1</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>HEL1</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>HEL1</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>HEL1</b> AA

Coding

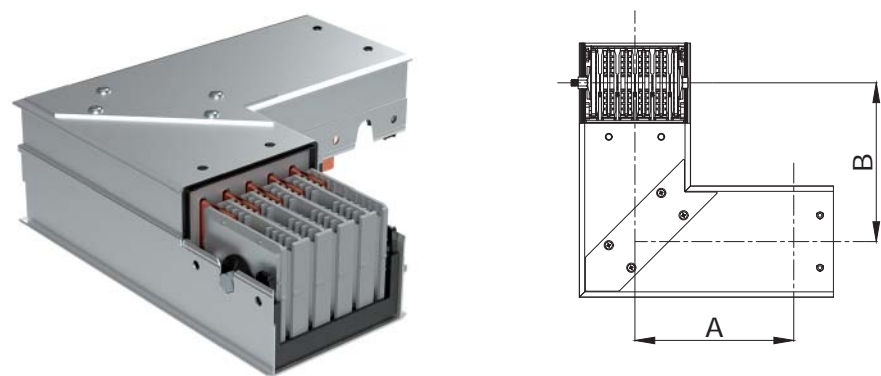
- HEL1 = horizontal elbow, type 1  
HEL2 = horizontal elbow, type 2  
HEL3 – horizontal elbow, type 1, random dimensions  
HEL4 – horizontal elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTC25E <b>HEL1</b> AA
3P+N+FE (bus)+PE (enclosure)	DTC25G <b>HEL1</b> AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25I <b>HEL1</b> AA



Horizontal elbow, type 2



**Purpose:**

- horizontal run bend.

**Characteristics:**

- protection degree IP55;
- aluminum enclosure as a PE-conductor;
- lengths are specified to an axis of a monoblock.

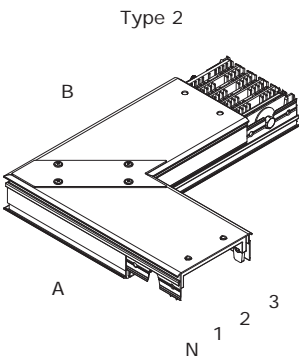
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>HEL2</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>HEL2</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>HEL2</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>HEL2</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>HEL2</b> AA

**Coding**

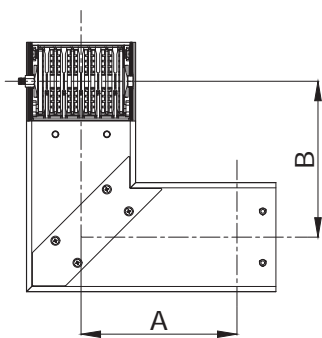
HEL1 = horizontal elbow, type 1  
HEL2 = horizontal elbow, type 2  
HEL3 – horizontal elbow, type 1, random dimensions  
HEL4 – horizontal elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTC25 <b>E</b> HEL2AA
3P+N+FE (bus)+PE (enclosure)	DTC25 <b>G</b> HEL2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25 <b>I</b> HEL2AA



Vertical elbow, type 1



- Purpose:**
- vertical run bend.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

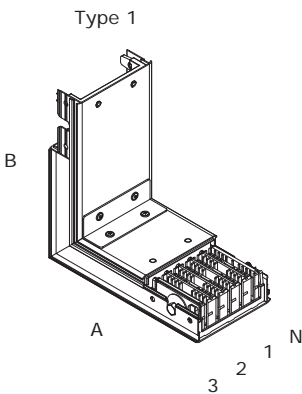
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>VEL1</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>VEL1</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>VEL1</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>VEL1</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>VEL1</b> AA

Coding

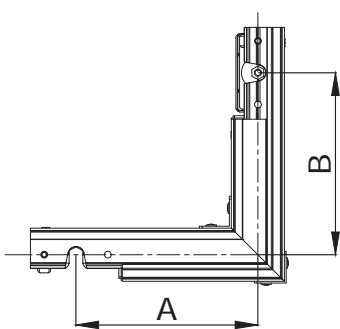
VEL1 = vertical elbow, type 1, standard dimensions;  
VEL2 = vertical elbow, type 2, standard dimensions;  
VEL3 = vertical elbow, type 1, random dimensions  
VEL4 = vertical elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTC25E <b>VEL1</b> AA
3P+N+FE (bus)+PE (enclosure)	DTC25G <b>VEL1</b> AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25I <b>VEL1</b> AA



Vertical elbow, type 2



- Purpose:**
- vertical run bend.
- Characteristics:**
- protection degree IP55;
  - class F insulation of up to 155 °C, without halogens;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

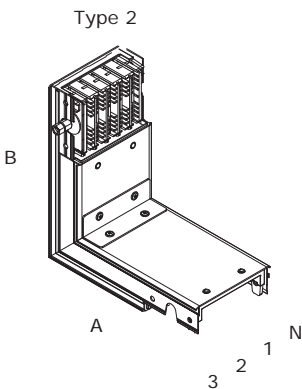
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>VEL2</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>VEL2</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>VEL2</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>VEL2</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>VEL2</b> AA

Coding

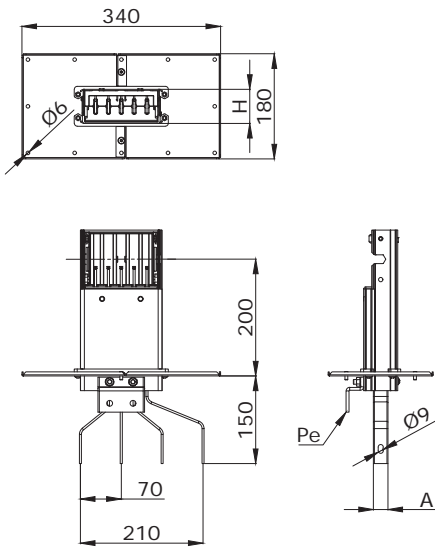
VEL1 = vertical elbow, type 1, standard dimensions;  
VEL2 = vertical elbow, type 2, standard dimensions;  
VEL3 = vertical elbow, type 1, random dimensions  
VEL4 = vertical elbow, type 2, random dimensions

Designs

3P+N+PE (enclosure)	DTC25E <b>VEL2</b> AA
3P+N+FE (bus)+PE (enclosure)	DTC25G <b>VEL2</b> AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25I <b>VEL2</b> AA



Terminal switchboard, type 1



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- protection degree IP55;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25ETST1AA
400	3P + N + PE (enclosure)	DTC40ETST1AA
500	3P + N + PE (enclosure)	DTC50ETST1AA
630	3P + N + PE (enclosure)	DTC63ETST1AA
800	3P + N + PE (enclosure)	DTC80ETST1AA

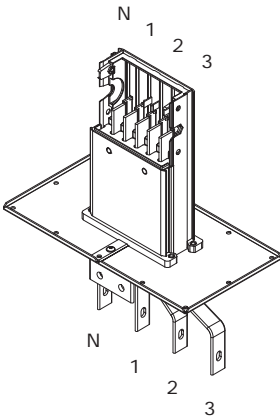
Coding

TST1 = terminal switchboard, type 1  
TST2 = terminal switchboard, type 2

Designs

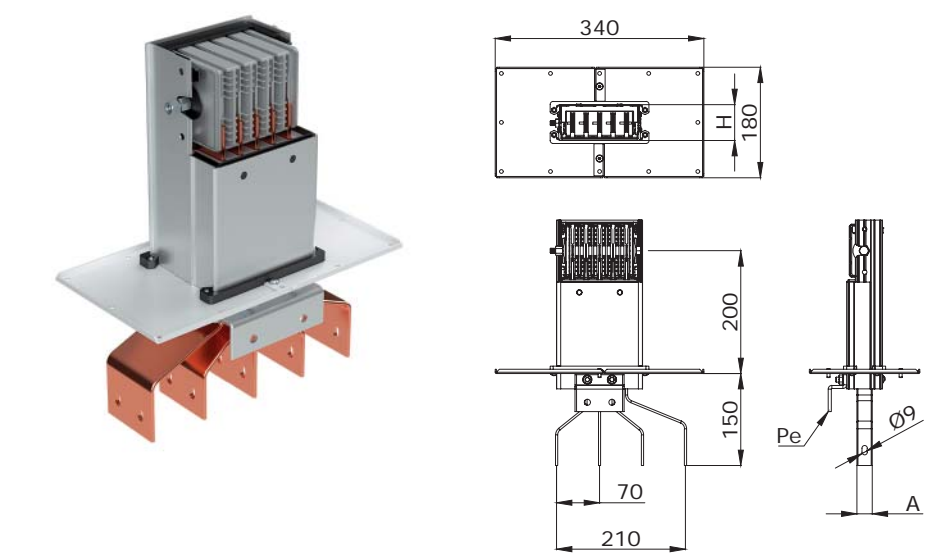
3P+N+PE (enclosure)	DTC25ETST1AA
3P+N+FE (bus)+PE (enclosure)	DTC25GTST1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25ITST1AA

Type 1  
without connection element





Terminal switchboard/transformer, type 2



**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- protection degree IP55;
- aluminum enclosure as a PE-conductor;
- lengths are specified to an axis of a monoblock.

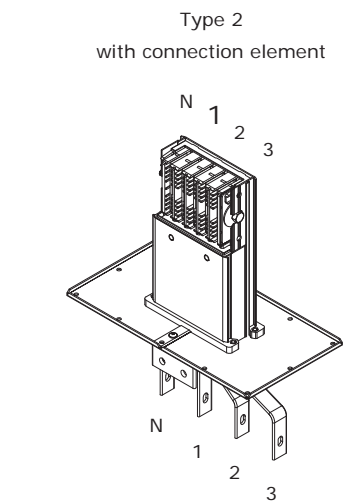
Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25ETST2AA
400	3P + N + PE (enclosure)	DTC40ETST2AA
500	3P + N + PE (enclosure)	DTC50ETST2AA
630	3P + N + PE (enclosure)	DTC63ETST2AA
800	3P + N + PE (enclosure)	DTC80ETST2AA

**Coding**

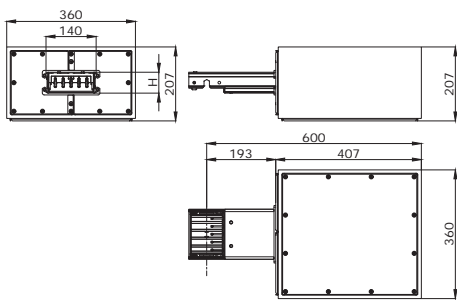
TST1 = terminal switchboard, type 1  
TST2 = terminal switchboard, type 2

Designs

3P+N+PE (enclosure)	DTC25ETST2AA
3P+N+FE (bus)+PE (enclosure)	DTC25GTST2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25ITST2AA



Feeder, type 1



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- protection degree IP55;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure of a busbar as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25EFED1AA
400	3P + N + PE (enclosure)	DTC40EFED1AA
500	3P + N + PE (enclosure)	DTC50EFED1AA
630	3P + N + PE (enclosure)	DTC63EFED1AA
800	3P + N + PE (enclosure)	DTC80EFED1AA

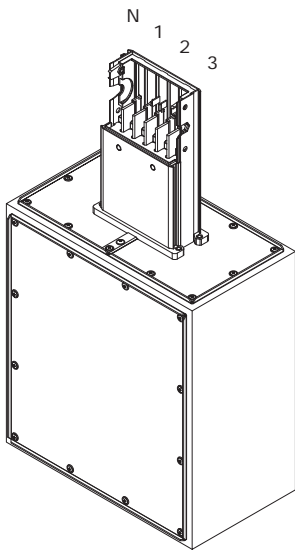
Coding

FED1 = feeder, type 1  
FED2 = feeder, type 2

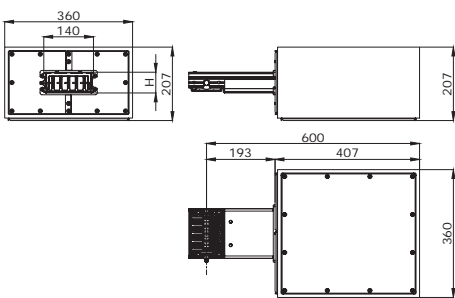
Designs

3P+N+PE (enclosure)	DTC25EFED1AA
3P+N+FE (bus)+PE (enclosure)	DTC25GFED1AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25IFED1AA

Type 1  
without connection element



Feeder, type 2



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- protection degree IP55;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure of a busbar as a PE-conductor;
  - lengths are specified to an axis of a monoblock.

Rated current, A	Designs	Code
250	3P + N + PE (enclosure)	DTC25E <b>FED2</b> AA
400	3P + N + PE (enclosure)	DTC40E <b>FED2</b> AA
500	3P + N + PE (enclosure)	DTC50E <b>FED2</b> AA
630	3P + N + PE (enclosure)	DTC63E <b>FED2</b> AA
800	3P + N + PE (enclosure)	DTC80E <b>FED2</b> AA

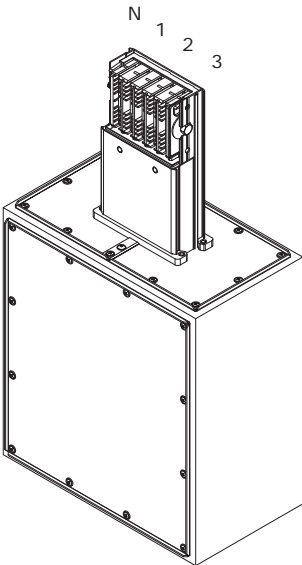
Coding

FED1 = feeder, type 1  
FED2 = feeder, type 2

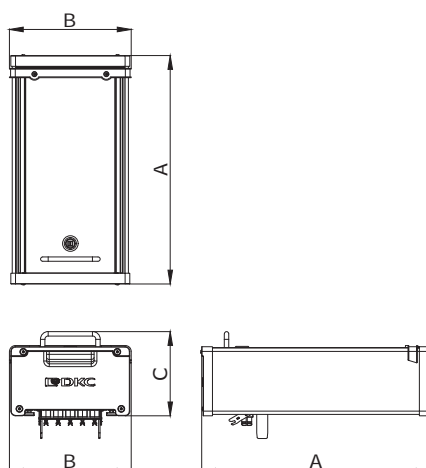
Designs

3P+N+PE (enclosure)	DTC25E <b>F</b> FED2AA
3P+N+FE (bus)+PE (enclosure)	DTC25G <b>F</b> FED2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTC25I <b>F</b> FED2AA

Type 2  
with connection element



## Tap-off box



### Purpose:

- connection of customers to plug-in points of a busbar.

### Characteristics:

- protection degree IP55;
- preparation for installation of NH series fuse links;
- fuse links are not included into the scope of supply.

Rated current, A	Designs	A, mm	B, mm	C, mm	Code
63	3P + N + PE (enclosure)	413	220	152	DTN90ETCE2AA
125	3P + N + PE (enclosure)	413	215	216	DTN90GTCE3AA
160	3P + N + PE (enclosure)	413	215	216	DTN90GTCE4AA

### Coding

TCE = empty

TCF = with a fuse link holder

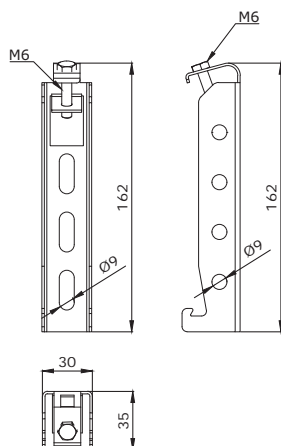
TCD = with a disconnector and a fuse link holder

TCM = for modular equipment

### Designs

3P+N+PE (enclosure)	DTN90ETCE2AA
3P+NP+PE (enclosure)	DTN90OTCE2AA
3P+N+FE (bus)+PE (enclosure)	DTN90GTCE2AA
3P+N+FE/2 (bus)+PE (enclosure)	DTN90VTCE2AA

## Busbar retainer



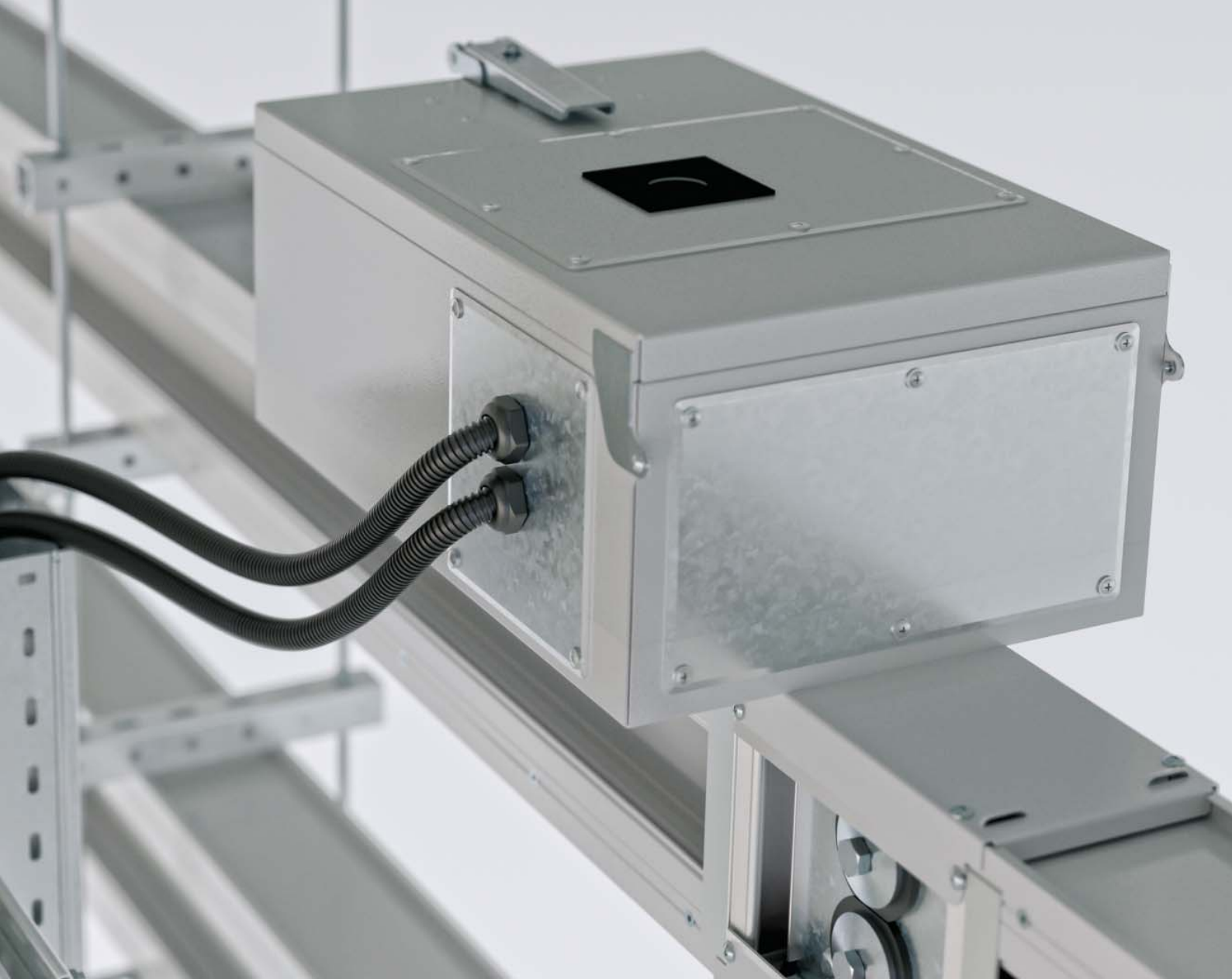
### Purpose:

- attachment of busbar runs.

### Characteristics:

- material is steel.

Rated current, A	Code
160–800	DTN00ZFIUSAA



# **HERCULES**

## **"Powertech" busbar for 630–6300 A**

<b>System description .....</b>	<b>64</b>
<b>Busbars with aluminum conductors .....</b>	<b>73</b>
<b>Busbars with copper conductors .....</b>	<b>107</b>
<b>Tap-off units .....</b>	<b>141</b>

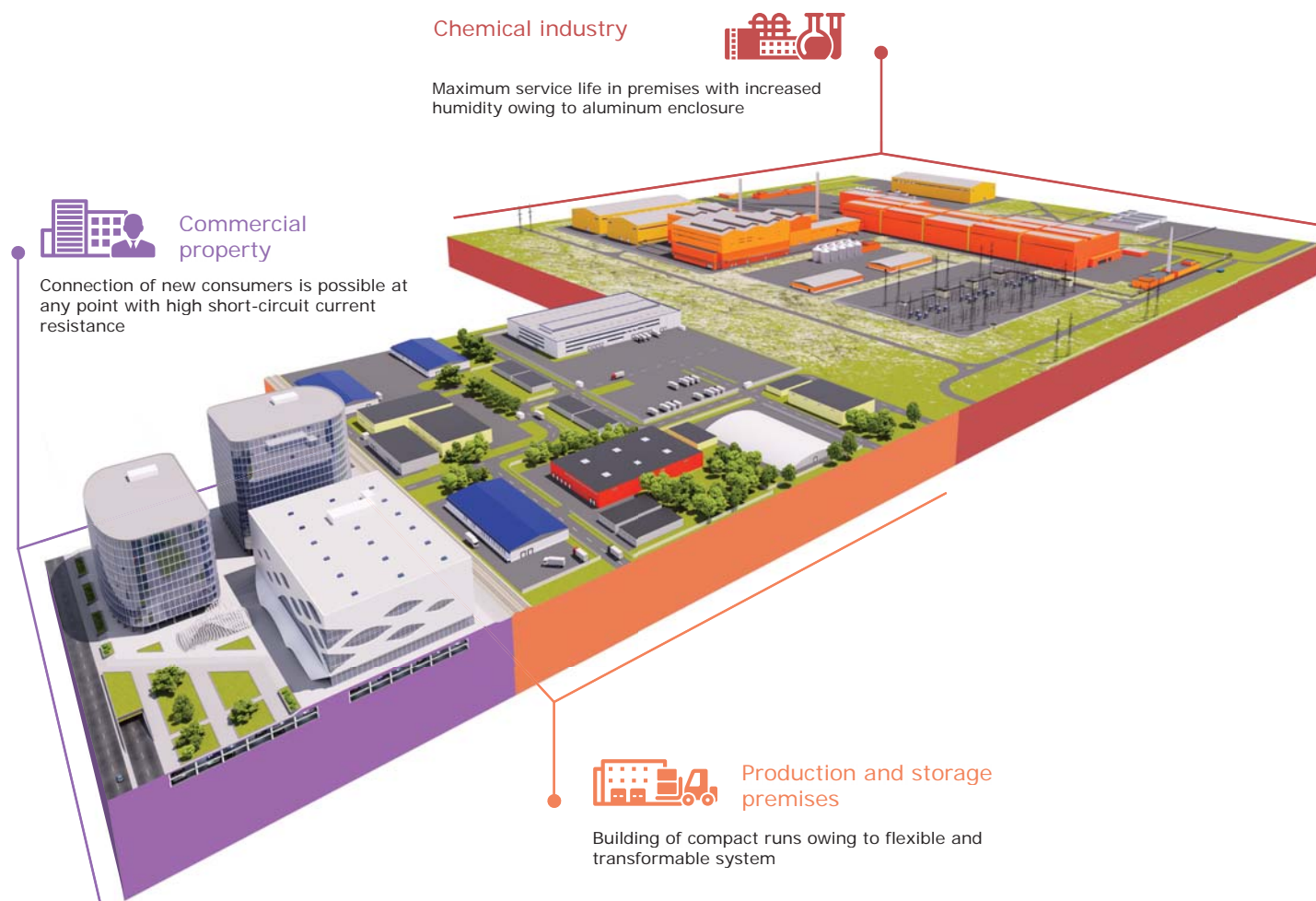
## "Powertech" busbar for 630–6300 A

### System description

"Powertech" busbar is used as a power line in the high-power systems with rated current from 630 to 6300 A with the possibility of connection of consumers through a run. Structurally the busbar represents a system of insulated conductors put together in an aluminum enclosure.

### Application

"Powertech" busbar is used in construction to provide electrical connection of electrotechnical equipment (electromagnets, (transformers, generators, etc.) in alternating current circuits with voltage of up to 1 kV and rated current of up to 6300 A. "Powertech" system includes a complete set of elements necessary for assembly of a run of any complexity, with patented possibility of manufacturing of straight elements directly at a facility according to DKC instructions. "Powertech" busbar is manufactured at the DKC own plant in Italy with thorough control of quality of goods manufactured with conformity to all the necessary regulations. After manufacture each element passes a full set of tests.



### Advantages

#### Flexibility

Manufacturing of random lengths with pitch of 1 mm and random angles with pitch of 1°

#### Keeping up with the times

Conforms to IEC 61439-1/6 standard

#### High IP protection degree

- standard design IP55;
- special design IP66

#### Easy and quick installation

"Powertech" system excludes the possibility of incorrect installation

#### Innovative insulating material

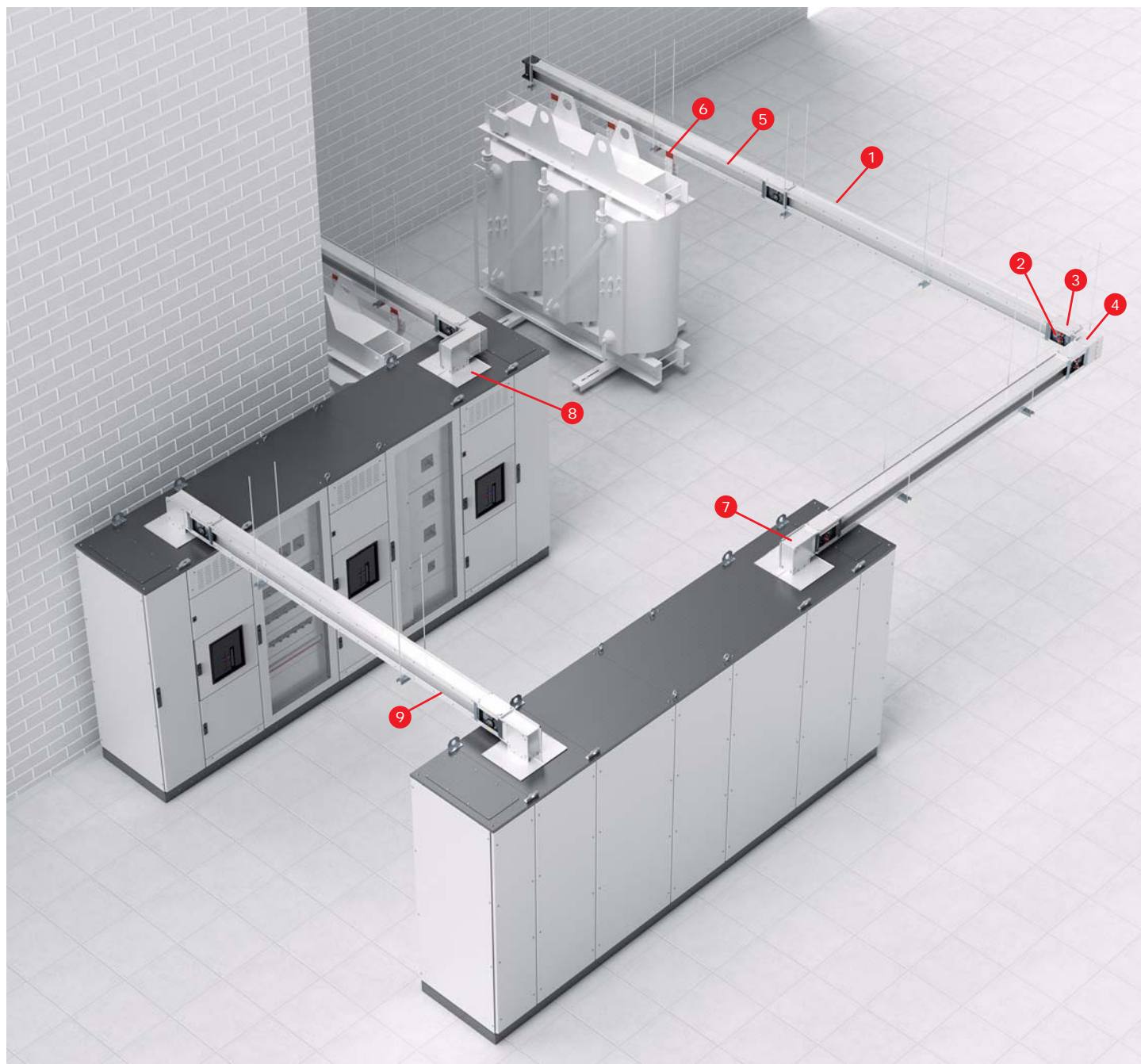
DyTerm N2S two-layer material withstanding temperature of up to 155 °C and disruptive voltage of up to 12 kV is used for insulation of conductors

#### Aluminum enclosure

Enclosure made of an aluminium alloy with section area larger than bus one at any rating can be used as a PE-conductor



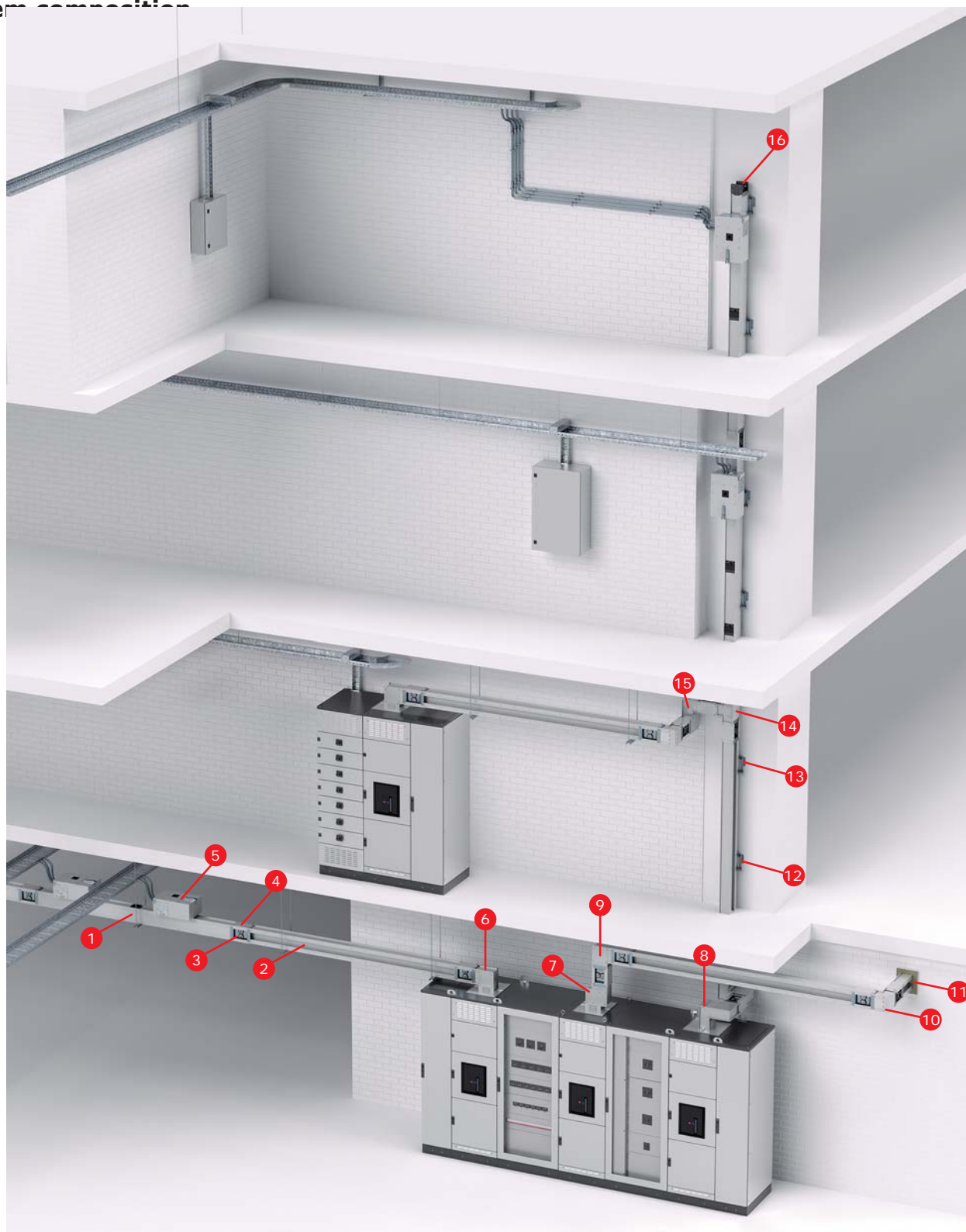
## System composition



- ① Straight element of busbar
- ② Monoblock
- ③ Joint covers
- ④ Horizontal elbow
- ⑤ Terminal parallel phases
- ⑥ Flexible joint
- ⑦ Terminal switchboard/transformer with vertical elbow
- ⑧ Terminal switchboard/transformer with vertical and horizontal elbows
- ⑨ Straight element with phases transposition



## System composition



- 1 Straight element of busbar with plug-in points
- 2 Straight element of busbar without plug-in points
- 3 Monoblock
- 4 Joint covers
- 5 Tap-off box
- 6 Terminal switchboard/transformer with vertical elbow
- 7 Terminal switchboard/transformer with double vertical elbow
- 8 Terminal switchboard/transformer with horizontal and vertical elbows

- 9 Vertical elbow
- 10 Horizontal elbow
- 11 Fire barrier
- 12 Busbar fixing bracket alignment for vertical runs
- 13 Busbar fixing bracket with springs for vertical runs
- 14 Tee
- 15 Horizontal and vertical elbows
- 16 End cover

## Technical data of busbar with cooper conductors

Characteristics			Values									
Rated current (40 °C) In, A			800	1000	1250	1600	2000	2500	3200	4000	5000	6300
Rated operating voltage Ue, V			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage Ui, V			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated frequency, Hz			50	50	50	50	50	50	50	50	50	50
Rated short-circuit three-phase current (within 1 s) Icw, kA			35	35	53	56	80	88	100	120	120	120
Peak short-circuit three-phase current Ipk, kA			73.5	73.5	116.6	123.2	176	194	220	264	264	264
Conductors												
Active resistance of phase bus at 20 °C R20, mOhm/m			0.042	0.042	0.034	0.026	0.022	0.015	0.013	0.011	0.009	0.008
Reactive resistance of phase bus at 50 Hz, X, mOhm/m			0.019	0.019	0.021	0.017	0.014	0.009	0.007	0.006	0.006	0.005
Full resistance of phase bus Z, mOhm/m			0.063	0.063	0.055	0.041	0.032	0.023	0.021	0.018	0.016	0.015
Active resistance of phase bus at maximum operating temperature Rt, mOhm/m			0.06	0.06	0.048	0.038	0.029	0.02	0.019	0.016	0.012	0.012
Phase bus section S, mm²			345	345	460	575	920	1150	1380	1840	2300	2760
Conductor material			ETP 99 9 electrolytic cooper									
Protective conductor (enclosure, box)												
Conductor (enclosure, box) material			AL 6060 aluminum painted alloy									
Conductor section S, mm²			2034	2034	2172	2260	2515	2772	3192	4809	5121	5961
Conductor section similar to copper Scu, mm²			1220	1220	1303	1356	1329	1663	1915	2885	3073	3577
Other characteristics												
Resistance of emergency loop R0, mOhm/m			0.0909	0.0909	0.0737	0.0596	0.0477	0.0334	0.0686	0.0256	0.0353	0.0236
Reactive resistance of emergency loop X0, mOhm/m			0.0813	0.0813	0.0556	0.0375	0.033	0.024	0.0283	0.0246	0.0784	0.0343
Full resistance of emergency loop Z0, mOhm/m			0.2889	0.2889	0.2137	0.1417	0.1131	0.1013	0.0666	0.0893	0.1872	0.107
Voltage drop factor k, (V/m/A) 10 <sup>-6</sup>  For distributed load ΔU = k · L · Ie · 10 <sup>-6</sup> , V For trunk ΔU = 2 · k · L · Ie · 10 <sup>-6</sup> , V	Cos φ = 0.70		48.07	48.07	42.04	33.51	26.21	17.67	15.83	13.39	10.97	10.35
	Cos φ = 0.75		49.8	49.8	43.16	34.38	26.82	18.12	16.33	13.81	11.22	10.65
	Cos φ = 0.80		51.38	51.38	44.12	35.12	27.33	18.51	16.78	14.19	11.42	10.9
	Cos φ = 0.85		52.77	52.77	44.86	35.69	27.7	18.81	17.16	14.5	11.56	11.1
	Cos φ = 0.90		53.87	53.87	45.29	35.99	27.86	18.96	17.43	14.72	11.6	11.23
	Cos φ = 0.95		54.44	54.44	45.12	35.82	27.61	18.87	17.5	14.77	11.48	11.21
	Cos φ = 1.00		51.9	51.9	41.52	32.87	25.09	17.3	16.44	13.84	10.38	10.38
Weight per unit length P, kg/m	3P+N+PE		17.3	17.3	23.1	27.8	41	51.3	61.3	81.1	101.5	113.6
	3P+N+PE+FE		23.1	23.1	29.4	35	51.5	64.6	76.9	101.9	126.9	151.9
Box overall dimensions, mm	3P+N+PE	width	133	133	133	133	133	133	133	133	133	133
		height	97	97	117	137	197	237	277	362.5	442.5	522.5
	3P+N+PE+FE	width	139	139	139	139	139	139	139	139	139	139
		height	97	97	117	137	197	237	277	362.5	442.5	522.5
Standard enclosure color			gray RAL 7035									
Class of insulation thermal resistance (limiting temperature at long-term operation)			F (155 °C)*									
Protection degree			IP55**									
Conformity to standards			TR CU 004/2011, Federal Law No. 123-ФЗ, GOST IEC 61439-1-2013, GOST IEC 61439-6-2013									
Service life			25 years									

\* It is possible to manufacture customized busbar system with class H insulation (180 °C).

\*\* It is possible to manufacture customized busbar system with IP66 protection degree.

## Technical data of busbar with aluminum conductors

Characteristics			Values											
Rated current (40 °C) In, A			630	800	1000	1250	1600	2000	2500	3200	4000	5000		
Rated operating voltage Ue, V			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Rated insulation voltage Ui, V			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Rated frequency, Hz			50	50	50	50	50	50	50	50	50	50		
Rated short-circuit three-phase current (within 1 s) Icw, kA			35	35	53	56	80	88	100	120	120	120		
Peak short-circuit three-phase current Ipk, kA			73.5	73.5	116.6	123.2	176	193.6	220	264	264	264		
Conductors														
Active resistance of phase bus at 20 °C R20, mOhm/m			0.076	0.076	0.067	0.043	0.032	0.029	0.016	0.016	0.014	0.012		
Reactive resistance of phase bus at 50 Hz, X, mOhm/m			0.02	0.02	0.019	0.014	0.011	0.01	0.006	0.006	0.005	0.004		
Full resistance of phase bus Z, mOhm/m			0.103	0.103	0.094	0.067	0.046	0.042	0.022	0.024	0.02	0.018		
Active resistance of phase bus at maximum operating temperature Rt, mOhm/m			0.099	0.099	0.095	0.063	0.043	0.037	0.021	0.023	0.019	0.018		
Phase bus section S, mm²			345	345	460	575	920	1150	1380	1840	2300	2760		
Conductor material			AL 6060 aluminum alloy											
Protective conductor (enclosure, box)														
Conductor (enclosure, box) material			AL 6060 aluminum painted alloy											
Conductor section S, mm²			2034	2034	2172	2260	2515	2772	3192	4809	5121	5961		
Conductor section similar to copper Scu, mm²			1220	1220	1303	1356	1329	1663	1915	2885	3073	3577		
Other characteristics														
Resistance of emergency loop R0, mOhm/m			0.156	0.156	0.1548	0.1021	0.0671	0.0555	0.0429	0.0419	0.0432	0.0242		
Reactive resistance of emergency loop X0, mOhm/m			0.0578	0.0578	0.0615	0.0304	0.0421	0.0137	0.0405	0.0154	0.0116	0.0296		
Full resistance of emergency loop Z0, mOhm/m			0.3436	0.3436	0.3547	0.2131	0.1594	0.1004	0.4522	0.2397	0.0686	0.0858		
Voltage drop factor k, (V/m/A) 10 <sup>-6</sup>  For distributed load ΔU = k · L · Ie · 10 <sup>-6</sup> , V For trunk ΔU = 2 · k · L · Ie · 10 <sup>-6</sup> , V	Cos φ = 0.70		72.3	72.3	69.26	46.79	32.83	28.58	16.42	17.63	14.72	13.37		
	Cos φ = 0.75		75.67	75.67	72.5	48.88	34.19	29.73	17.06	18.35	15.3	13.97		
	Cos φ = 0.80		78.89	78.89	75.6	50.86	35.47	30.79	17.65	19.03	15.85	14.53		
	Cos φ = 0.85		81.9	81.9	78.51	52.7	36.63	31.76	18.17	19.64	16.34	15.06		
	Cos φ = 0.90		84.61	84.61	81.12	54.32	37.62	32.57	18.61	20.17	16.75	15.52		
	Cos φ = 0.95		86.76	86.76	83.2	55.55	38.31	33.11	18.88	20.52	17.02	15.87		
	Cos φ = 1.00		85.64	85.64	82.18	54.5	37.2	32.01	18.17	19.9	16.44	15.57		
Weight per unit length P, kg/m		3P+N+PE	9.6	9.6	11.6	13.5	18.8	22.3	26.5	36.5	43.6	52		
		3P+N+PE+FE	12.5	12.5	15	16.9	23.8	28.1	33.1	45.6	55	65		
Box overall dimensions, mm			3P+N+PE	width	133	133	133	133	133	133	133	133		
				height	97	97	117	137	197	237	277	362.5	442.5	522.5
			3P+N+PE+FE	width	139	139	139	139	139	139	139	139	139	139
				height	97	97	117	137	197	237	277	362.5	442.5	522.5
Standard enclosure color			gray RAL 7035											
Class of insulation thermal resistance (limiting temperature at long-term operation)			F (155 °C)*											
Protection degree			IP55**											
Conformity to standards			TR CU 004/2011, Federal Law No. 123-ФЗ, GOST IEC 61439-1-2013, GOST IEC 61439-6-2013											
Service life			25 years											

\* It is possible to manufacture customized busbar system with class H insulation (180 °C).

\*\* It is possible to manufacture customized busbar system with IP66 protection degree.

## Coding system

**XX X XX X XXXX XX XXX**

### Design index:

**Combined designation of product unique characteristics** (for example, non-standard length of a straight element)

### Designation of a design of product standard characteristics

**Product type combined designation** (see Annex 1)

**Pole configuration designation** (see Annex 2)

**Product rated current or bus height designation** (see Annex 3)

### Conductive part material

**A** – aluminum;

**C** – cooper;

**N** – an accessory is compatible with both materials.

### Busbar type

**PT** – Powertech;

**DT** – Distritech;

**LT** – Lightech.

## Example use

**PTA25EHEL1AA000**

**000** – standard design;

**AA** – standard design;

**HEL1** – horizontal elbow, type 1;

**E** – 3P+N+Pe;

**25** – with rating of 2500 A;

**A** – with aluminum buses;

**PT** – "Powertech" busbar for 630-6300 A.

## Annex 1. Product type combined designation

SEF1	straight element of a standard length, 3000 mm
SEF2	straight element of a random length, 500–2999 mm
SP11	straight element with 3 plug-in points, 2950 mm
SP12	straight element with 3 plug-in points, random dimensions
SP13	straight element with 2 plug-in points, random dimensions
SP14	straight element with 1 plug-in point, random dimensions
SP15	straight element with 4 plug-in points, random dimensions
SP16	straight element with 2 plug-in points, 2400 mm
SP21	straight element with 3+3 plug-in points, 2950 mm
SP22	straight element with 3+3 plug-in points, random dimensions
SP23	straight element with 2+2 plug-in points, random dimensions
SP24	straight element with 1+1 plug-in points, random dimensions
SP25	straight element with 4+4 plug-in points, random dimensions
HEL1	horizontal elbow, type 1
HEL2	horizontal elbow, type 2
HEL3	horizontal elbow, type 1, random dimensions
HEL4	horizontal elbow, type 2, random dimensions
VEL1	vertical elbow
VEL1	vertical elbow, random dimensions
DHE1	double horizontal elbow, type 1
DHE1	double horizontal elbow, type 2
DVE1	double vertical elbow, type 1
DVE2	double vertical elbow, type 2
HVE1	horizontal+vertical elbow, type 1
HVE2	horizontal+vertical elbow, type 2
HVE3	horizontal+vertical elbow, type 3

## Continuation of Annex 1

HVE4	horizontal+vertical elbow, type 4
HTE1	horizontal Tee, type 1
HTE2	horizontal Tee, type 2
HTE5	horizontal Tee, type 1, random dimensions
HTE6	horizontal Tee, type 2, random dimensions
VTE1	vertical Tee
VTE5	vertical Tee, random dimensions
TST1	terminal switchboard/transformer
TST2	terminal switchboard/transformer, random dimensions
HET1	TST with horizontal elbow, type 1
HET2	TST with horizontal elbow, type 2
HET3	TST with horizontal elbow, type 1, random dimensions
HET4	TST with horizontal elbow, type 2, random dimensions
VET1	TST with vertical elbow, type 1
VET2	TST with vertical elbow, type 2
VET3	TST with vertical elbow, type 1, random dimensions
VET4	TST with vertical elbow, type 2, random dimensions
DHT1	TST with double horizontal elbow, type 1
DHT2	TST with double horizontal elbow, type 2
DVT1	TST with double vertical elbow, type 1
DVT2	TST with double vertical elbow, type 2
HVT1	TST with vertical and horizontal elbow, type 1
HVT2	TST with vertical and horizontal elbow, type 2
HVT3	TST with vertical and horizontal elbow, type 3
HVT4	TST with vertical and horizontal elbow, type 4
VHT1	TST with horizontal and vertical elbow, type 1
VHT2	TST with horizontal and vertical elbow, type 2
VHT3	TST with horizontal and vertical elbow, type 3
VHT4	TST with horizontal and vertical elbow, type 4
TPP1	terminal parallel phases, type 1
TPP2	terminal parallel phases, type 2
HTP1	TPP with horizontal elbow, type 1
HTP2	TPP with horizontal elbow, type 2
HTP3	TPP with horizontal elbow, type 3
HTP4	TPP with horizontal elbow, type 4
VTP1	TPP with vertical elbow, type 1
VTP2	TPP with vertical elbow, type 2
VTP3	TPP with vertical elbow, type 3
VTP4	TPP with vertical elbow, type 4
FLXJA	flexible joint
FED1	feeder
FED2	feeder, random dimensions
FVR1	vertical feeder, type 1
FVR2	vertical feeder, type 2
FVR3	vertical feeder, type 1, random dimensions
FVR4	vertical feeder, type 2, random dimensions
SPT1	straight element with phases transposition, type 1
SPT2	straight element with phases transposition, type 2
SPT3	straight element with phases transposition, type 3, random dimensions
SPT4	straight element with phases transposition special

## Annex 2. Pole configuration designation

E	3P+N
G	3P+N+Fe
I	3P+N+0,5Fe
Pe function is performed by a busbar enclosure	

## Annex 3. Busbar rated current designation or accessory designation

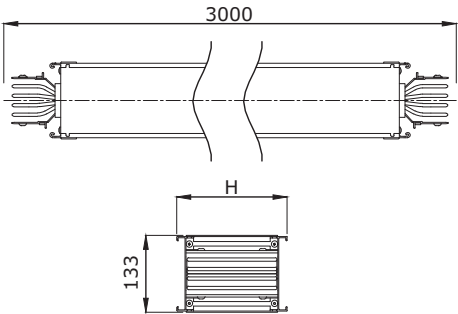
06	630 A
08	800 A
10	1000 A
13	1250 A
16	1600 A
20	2000 A
25	2500 A
32	3200 A
40	4000 A
50	5000 A
63	6300 A
90	accessories (for bus of any height)
91	bus with height of 60 mm
92	bus with height of 80 mm
93	bus with height of 100 mm
94	bus with height of 160 mm
95	bus with height of 200 mm
96	bus with height of 240 mm
97	bus with height of 2x160 mm
98	bus with height of 2x200 mm
99	bus with height of 2x240 mm

## Regulatory technical base on use of DKC main busbars

1. Drawings of stations for entry into an enclosure
2. Dynamic blocks of "Hercules" busbars
3. Instruction for installation of main and distribution "Hercules" busbar
4. Instruction for application and operation of main and distribution "Hercules" busbar
5. Instruction for installation of fire barriers of main and distribution "Hercules" busbars
6. Certificates

\* Refer to DKC regional representative offices to receive the regulatory technical documents or download them from DKC website

Straight element feeder



- Purpose:**
- building of straight elements of a busbar run.
- Characteristics:**
- protection degree IP55, it is possible to increase up to IP66;
  - class F insulation of up to 155 °C, without halogens;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified between axes of monoblocks;
  - for five-wire system width is 139 mm.

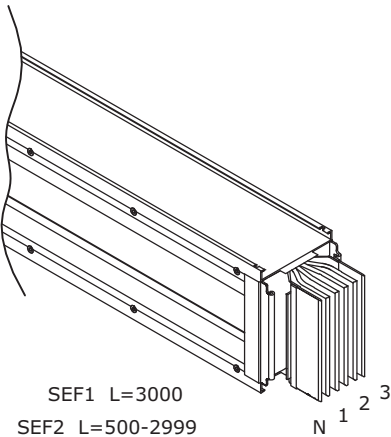
Rated current, A	Enclosure height H, mm	Specific run weight, kg/m	Bus height, mm	Code
630	96.8	9.7	60	PTA06E <b>SEF1</b> AA000
800	96.8	9.7	60	PTA08E <b>SEF1</b> AA000
1000	116.8	11.7	80	PTA10E <b>SEF1</b> AA000
1250	136.8	13.5	100	PTA13E <b>SEF1</b> AA000
1600	196.8	18.8	160	PTA16E <b>SEF1</b> AA000
2000	236.8	22.3	200	PTA20E <b>SEF1</b> AA000
2500	276.8	26.5	240	PTA25E <b>SEF1</b> AA000
3200	362.3	36.5	2x160	PTA32E <b>SEF1</b> AA000
4000	442.3	43.7	2x200	PTA40E <b>SEF1</b> AA000
5000	522.3	52.0	2x240	PTA50E <b>SEF1</b> AA000

**Coding**

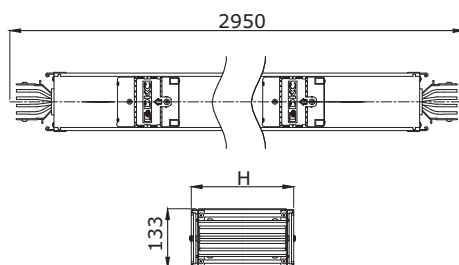
SEF1 = length of 3000 mm  
SEF2 = length of 500–2999 mm

Designs

3P+N+PE (enclosure)	PTA06E <b>SEF1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06G <b>SEF1</b> AA000



## Straight element distribution



### Purpose:

- organization of power tap-off from a busbar.

### Characteristics:

- section can be extended both upwards and downwards with plug-in points;
- connection and disconnection of boxes can be performed without disconnection of a busbar from the system;
- lengths are specified between axes of monoblocks;
- distance between plug-in points can be changed.

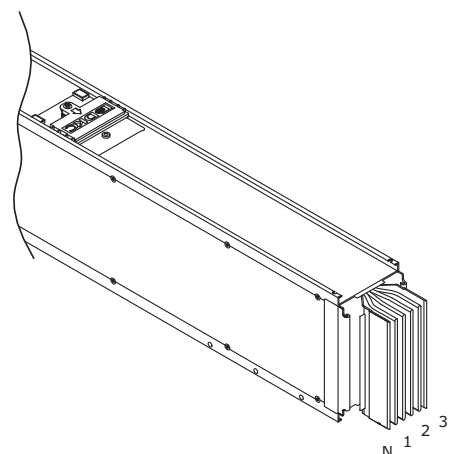
Rated current, A	Enclosure height H, mm	Specific run weight, kg/m	Bus height, mm	Code
630	96.8	9.7	60	PTA06 <b>ESP11</b> AA000
800	96.8	9.7	60	PTA08 <b>ESP11</b> AA000
1000	116.8	11.7	80	PTA10 <b>ESP11</b> AA000
1250	136.8	13.5	100	PTA13 <b>ESP11</b> AA000
1600	196.8	18.8	160	PTA16 <b>ESP11</b> AA000
2000	236.8	22.3	200	PTA20 <b>ESP11</b> AA000
2500	276.8	26.5	240	PTA25 <b>ESP11</b> AA000
3200	362.3	36.5	2x160	PTA32 <b>ESP11</b> AA000
4000	442.3	43.7	2x200	PTA40 <b>ESP11</b> AA000
5000	522.3	52.0	2x240	PTA50 <b>ESP11</b> AA000

### Coding

SP11 = 2950 mm, 3 plug-in points on one side  
 SP12 = 500–2950 mm, 3 plug-in points on one side  
 SP13 = 500–2950 mm, 2 plug-in points on one side  
 SP14 = 500–2950 mm, 1 plug-in point on one side  
 SP15 = 500–2950 mm, 4 plug-in points on one side  
 SP16 = 2400 mm, 2 plug-in points on one side  
 SP21 = 2950 mm, 3 plug-in points on both sides  
 SP22 = 500–2950 mm, 3 plug-in points on both sides  
 SP23 = 500–2950 mm, 2 plug-in points on both sides  
 SP24 = 500–2950 mm, 1 plug-in point on both sides  
 SP25 = 500–2950 mm, 4 plug-in points on both sides

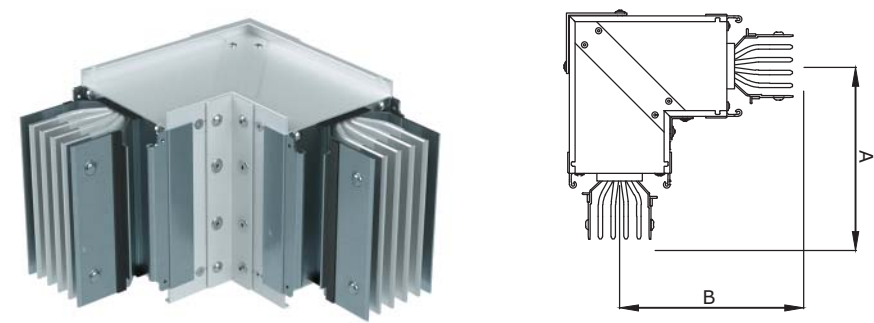
### Designs

3P+N+PE (enclosure)	PTA06 <b>ESP11</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>GSP11</b> AA000





Horizontal elbow



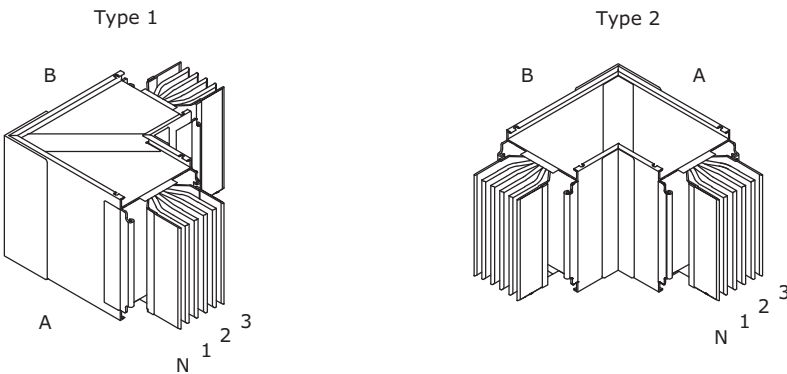
- Purpose:**
- horizontal run bend.
- Characteristics:**
- suitable for right and left bend;
  - lengths are specified to an axis of a monoblock.

Rated current, A	A standard, mm	B standard, mm	A maximum, mm	B maximum, mm	Code
630	250	250	1200	1200	PTA06 <b>HEL1</b> AA000
800	250	250	1200	1200	PTA08 <b>HEL1</b> AA000
1000	250	250	1200	1200	PTA10 <b>HEL1</b> AA000
1250	250	250	1200	1200	PTA13 <b>HEL1</b> AA000
1600	250	250	1200	1200	PTA16 <b>HEL1</b> AA000
2000	250	250	1200	1200	PTA20 <b>HEL1</b> AA000
2500	250	250	1200	1200	PTA25 <b>HEL1</b> AA000
3200	250	250	1200	1200	PTA32 <b>HEL1</b> AA000
4000	250	250	1200	1200	PTA40 <b>HEL1</b> AA000
5000	250	250	1200	1200	PTA50 <b>HEL1</b> AA000

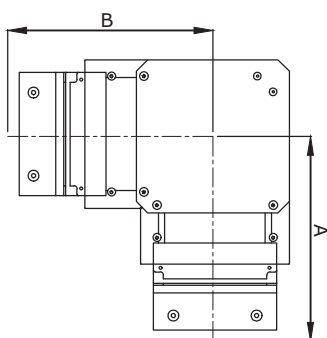
- Coding**
- HEL1 – type 1, standard dimensions
  - HEL2 – type 2, standard dimensions
  - HEL3 – type 1, non-standard dimensions
  - HEL4 – type 2, non-standard dimensions
  - HEL5 – type 1, non-standard elbow
  - HEL6 – type 2, non-standard elbow

Designs

3P+N+PE (enclosure)	PTA06 <b>E</b> HEL1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>G</b> HEL1AA000



## Vertical elbow



### Purpose:

- vertical run bend.

### Characteristics:

- suitable for upward and downward bend;
- lengths are specified to an axis of a monoblock.

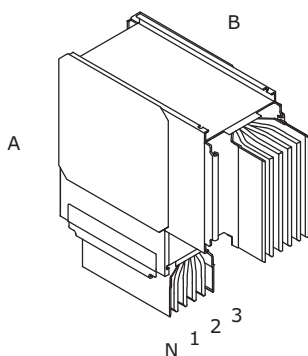
Rated current, A	A standard, mm	B standard, mm	A maximum, mm	B maximum, mm	Code
630	230	230	1200	1200	PTA06E <b>VEL1</b> AA000
800	230	230	1200	1200	PTA08E <b>VEL1</b> AA000
1000	240	240	1200	1200	PTA10E <b>VEL1</b> AA000
1250	250	250	1200	1200	PTA13E <b>VEL1</b> AA000
1600	280	280	1200	1200	PTA16E <b>VEL1</b> AA000
2000	300	300	1200	1200	PTA20E <b>VEL1</b> AA000
2500	320	320	1200	1200	PTA25E <b>VEL1</b> AA000
3200	370	370	1200	1200	PTA32E <b>VEL1</b> AA000
4000	410	410	1200	1200	PTA40E <b>VEL1</b> AA000
5000	450	450	1200	1200	PTA50E <b>VEL1</b> AA000

### Coding

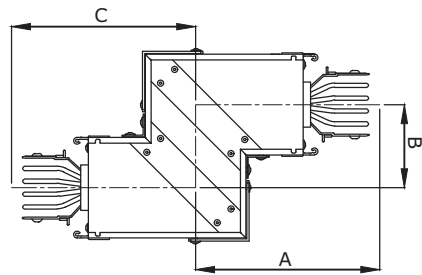
VEL1 means standard dimensions  
 VEL3 means non-standard dimensions  
 VEL5 means a non-standard elbow

### Designs

3P+N+PE (enclosure)	PTA06E <b>VEL1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>G</b> VEL1AA000



Double horizontal elbow

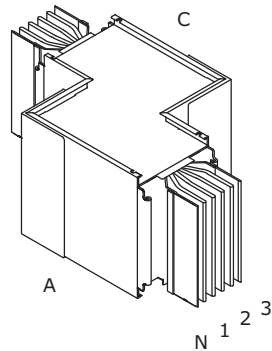


- Purpose:**
- bypassing an obstruction in horizontal plane.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

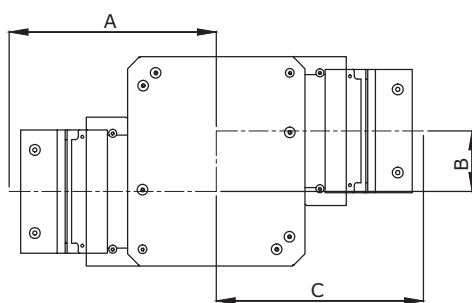
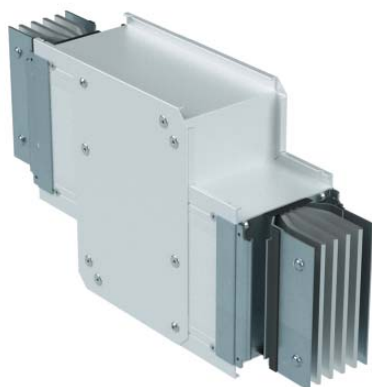
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	250	70	250	1000	1000	1000	PTA06EDHE1AA000
800	250	70	250	1000	1000	1000	PTA08EDHE1AA000
1000	250	70	250	1000	1000	1000	PTA10EDHE1AA000
1250	250	70	250	1000	1000	1000	PTA13EDHE1AA000
1600	250	70	250	1000	1000	1000	PTA16EDHE1AA000
2000	250	70	250	1000	1000	1000	PTA20EDHE1AA000
2500	250	70	250	1000	1000	1000	PTA25EDHE1AA000
3200	250	70	250	1000	1000	1000	PTA32EDHE1AA000
4000	250	70	250	1000	1000	1000	PTA40EDHE1AA000
5000	250	70	250	1000	1000	1000	PTA50EDHE1AA000

Designs

3P+N+PE (enclosure)	PTA06EDHE1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GDHE1AA000



## Double vertical elbow



### Purpose:

- bypassing an obstruction in vertical plane.

### Characteristics:

- the dimensions are selected from a set range;
- lengths are specified to an axis of a monoblock.

Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	230	80	230	1200	1200	1200	PTA06EDVE1AA000
800	230	80	230	1200	1200	1200	PTA08EDVE1AA000
1000	240	80	240	1200	1200	1200	PTA10EDVE1AA000
1250	250	80	250	1200	1200	1200	PTA13EDVE1AA000
1600	280	80	280	1200	1200	1200	PTA16EDVE1AA000
2000	300	80	300	1200	1200	1200	PTA20EDVE1AA000
2500	320	80	320	1200	1200	1200	PTA25EDVE1AA000
3200	370	80	370	1200	1200	1200	PTA32EDVE1AA000
4000	410	80	410	1200	1200	1200	PTA40EDVE1AA000
5000	450	80	450	1200	1200	1200	PTA50EDVE1AA000

### Coding

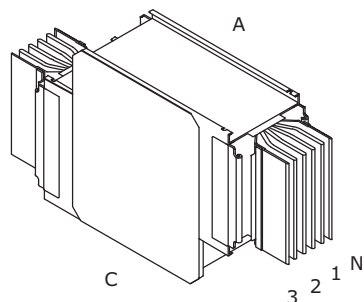
DVE1 – type 1

DVE2 – type 2

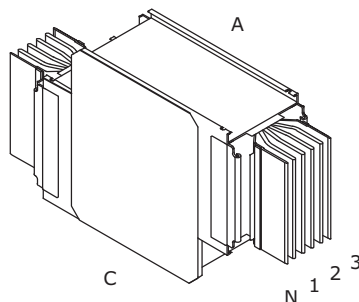
### Designs

3P+N+PE (enclosure)	PTA06EDVE1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GDVE1AA000

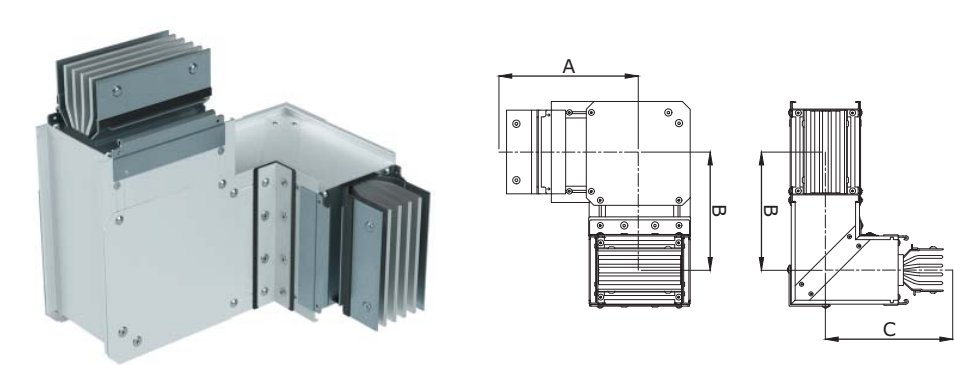
Type 1



Type 2



Horizontal + vertical elbows



**Purpose:**

- run bend in two planes.

**Characteristics:**

- the dimensions are selected from a set range;
- lengths are specified to an axis of a monoblock.

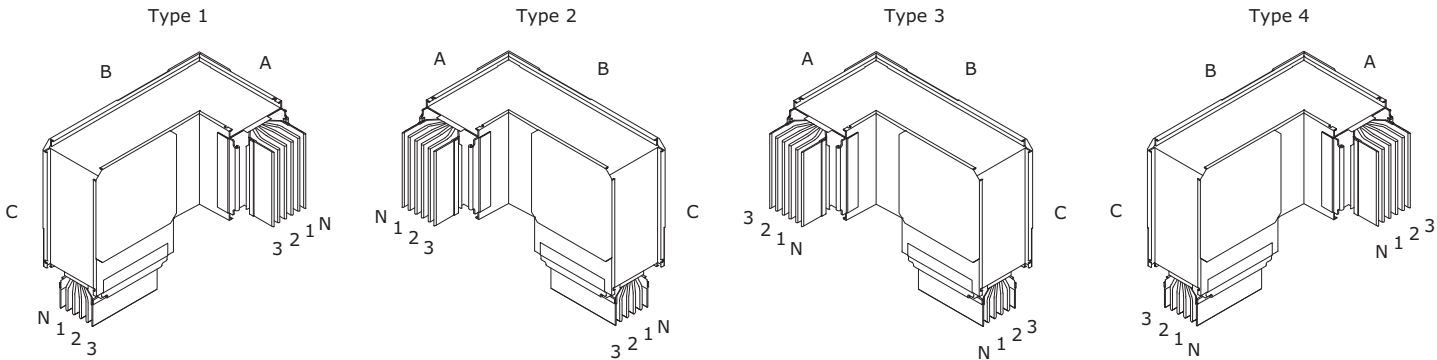
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	250	180	230	1000	1000	1000	PTA06EHVE1AA000
800	250	180	230	1000	1000	1000	PTA08EHVE1AA000
1000	250	190	240	1000	1000	1000	PTA10EHVE1AA000
1250	250	200	250	1000	1000	1000	PTA13EHVE1AA000
1600	250	230	280	1000	1000	1000	PTA16EHVE1AA000
2000	250	250	300	1000	1000	1000	PTA20EHVE1AA000
2500	250	270	320	1000	1000	1000	PTA25EHVE1AA000
3200	250	315	370	1000	1000	1000	PTA32EHVE1AA000
4000	250	355	410	1000	1000	1000	PTA40EHVE1AA000
5000	250	395	450	1000	1000	1000	PTA50EHVE1AA000

**Coding**

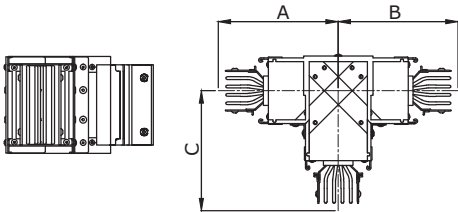
HVE1 – type 1  
HVE2 – type 2  
HVE3 – type 3  
HVE4 – type 4

Designs

3P+N+PE (enclosure)	PTA06EHVE1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GHVE1AA000



Horizontal Tee



- Purpose:**
- run bend in horizontal plane.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	500	500	500	1200	1200	1200	PTA06 <b>E</b> HTE1AA000
800	500	500	500	1200	1200	1200	PTA08 <b>E</b> HTE1AA000
1000	500	500	500	1200	1200	1200	PTA10 <b>E</b> HTE1AA000
1250	500	500	500	1200	1200	1200	PTA13 <b>E</b> HTE1AA000
1600	500	500	500	1200	1200	1200	PTA16 <b>E</b> HTE1AA000
2000	600	600	600	1200	1200	1200	PTA20 <b>E</b> HTE1AA000
2500	600	600	600	1200	1200	1200	PTA25 <b>E</b> HTE1AA000
3200	600	600	600	1200	1200	1200	PTA32 <b>E</b> HTE1AA000
4000	600	600	600	1200	1200	1200	PTA40 <b>E</b> HTE1AA000
5000	600	600	600	1200	1200	1200	PTA50 <b>E</b> HTE1AA000

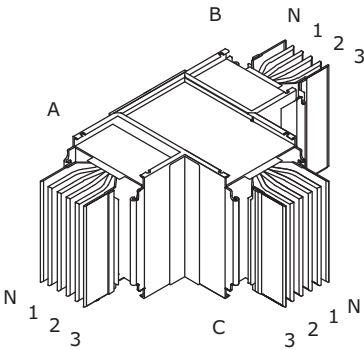
Coding

- HTE1 – type 1, standard dimensions  
HTE2 – type 2, standard dimensions  
HTE5 – type 1, non-standard dimensions  
HTE6 – type 2, non-standard dimensions

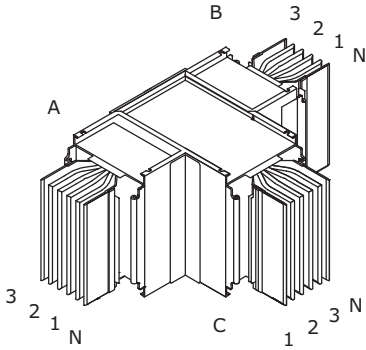
Designs

3P+N+PE (enclosure)	PTA06 <b>E</b> HTE1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>G</b> HTE1AA000

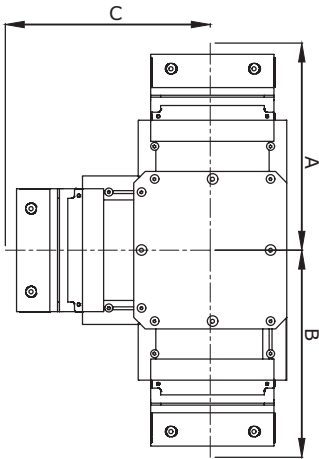
Type 1



Type 2



Vertical Tee



- Purpose:**
- run bend in vertical plane.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

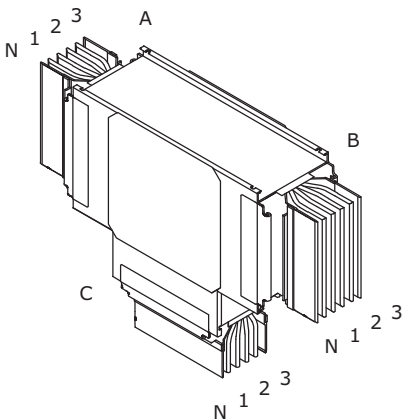
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	230	230	230	1200	1200	1200	PTA06 <b>EVTE1</b> AA000
800	230	230	230	1200	1200	1200	PTA08 <b>EVTE1</b> AA000
1000	240	240	240	1200	1200	1200	PTA10 <b>EVTE1</b> AA000
1250	250	250	250	1200	1200	1200	PTA13 <b>EVTE1</b> AA000
1600	280	280	280	1200	1200	1200	PTA16 <b>EVTE1</b> AA000
2000	300	300	300	1200	1200	1200	PTA20 <b>EVTE1</b> AA000
2500	320	320	320	1200	1200	1200	PTA25 <b>EVTE1</b> AA000
3200	370	370	370	1200	1200	1200	PTA32 <b>EVTE1</b> AA000
4000	410	410	410	1200	1200	1200	PTA40 <b>EVTE1</b> AA000
5000	450	450	450	1200	1200	1200	PTA50 <b>EVTE1</b> AA000

**Coding**

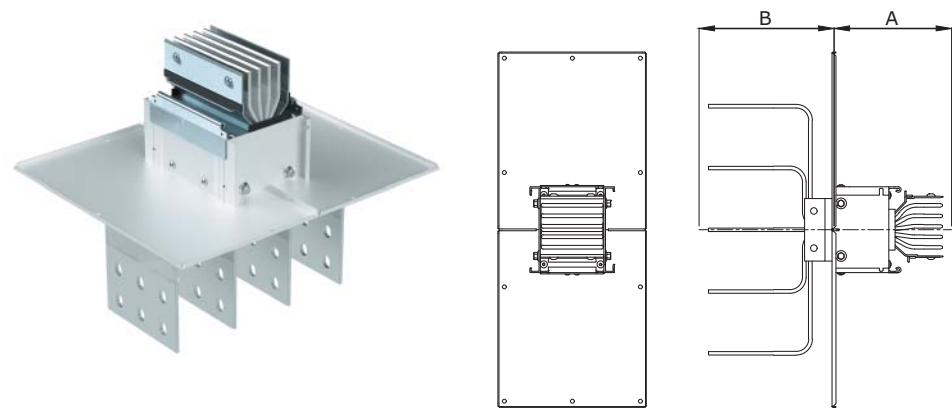
VTE1 means standard dimensions  
VTE5 means non-standard dimensions

Designs

3P+N+PE (enclosure)	PTA06 <b>EVTE1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>GVTE1</b> AA000



Terminal switchboard/transformer



**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

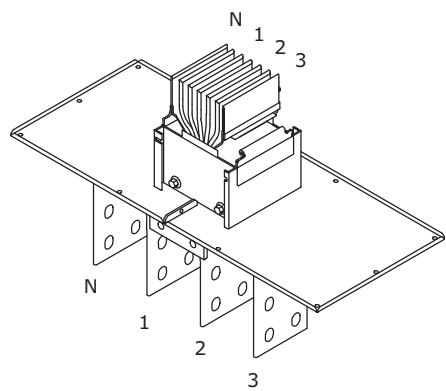
Rated current, A	A standard, mm	B standard, mm	X standard, mm	Y standard, mm	A maximum, mm	B maximum, mm	Code
630	200	200	100	50	1000	400	PTA06ETST1AA000
800	200	200	100	50	1000	400	PTA08ETST1AA000
1000	200	200	100	50	1000	400	PTA10ETST1AA000
1250	200	200	100	50	1000	400	PTA13ETST1AA000
1600	200	200	100	50	1000	400	PTA16ETST1AA000
2000	200	200	100	50	1000	400	PTA20ETST1AA000
2500	200	200	100	50	1000	400	PTA25ETST1AA000
3200	200	200	100	50	1000	400	PTA32ETST1AA000
4000	200	200	100	50	1000	400	PTA40ETST1AA000
5000	200	200	100	50	1000	400	PTA50ETST1AA000

Coding

TST1 means standard dimensions  
TST2 means non-standard dimensions

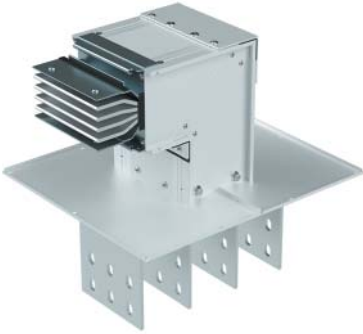
Designs

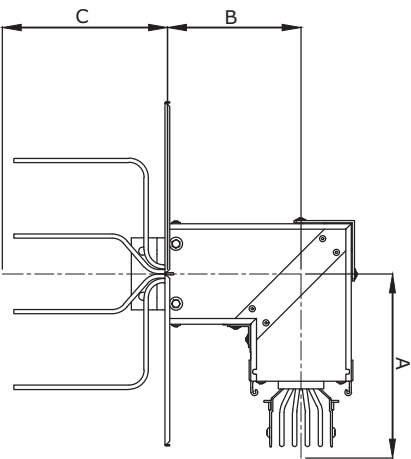
3P+N+PE (enclosure)	PTA06 <b>ET</b> ST1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>GT</b> ST1AA000





Terminal switchboard/transformer with horizontal elbow





**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

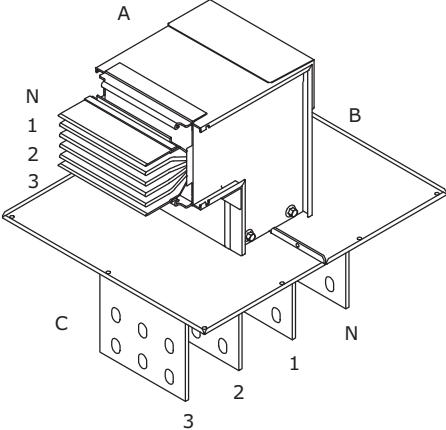
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	Code
630	250	180	200	1200	1000	PTA06EHET1AA000
800	250	180	200	1200	1000	PTA08EHET1AA000
1000	250	180	200	1200	1000	PTA10EHET1AA000
1250	250	180	200	1200	1000	PTA13EHET1AA000
1600	250	180	200	1200	1000	PTA16EHET1AA000
2000	250	180	200	1200	1000	PTA20EHET1AA000
2500	250	180	200	1200	1000	PTA25EHET1AA000
3200	250	180	200	1200	1000	PTA32EHET1AA000
4000	250	180	200	1200	1000	PTA40EHET1AA000
5000	250	180	200	1200	1000	PTA50EHET1AA000

**Coding**

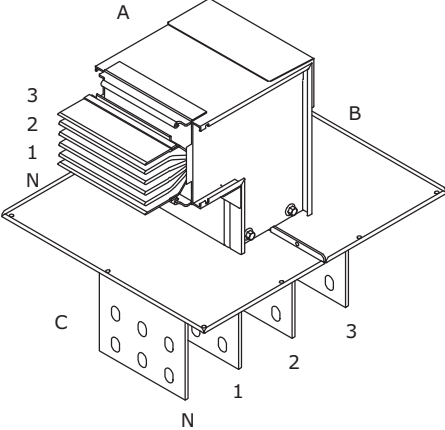
HET1 – type 1  
HET2 – type 2

3P+N+PE (enclosure)	PTA06EHET1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GHET1AA000

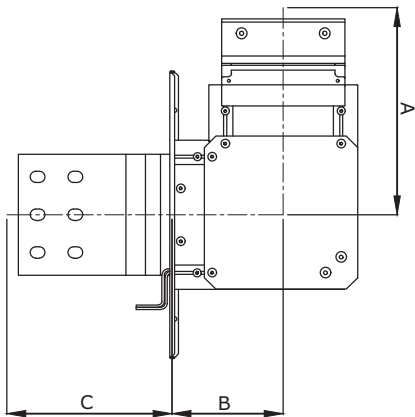
Type 1



Type 2



Terminal switchboard/transformer with vertical elbow



**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection

**Characteristics:**

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

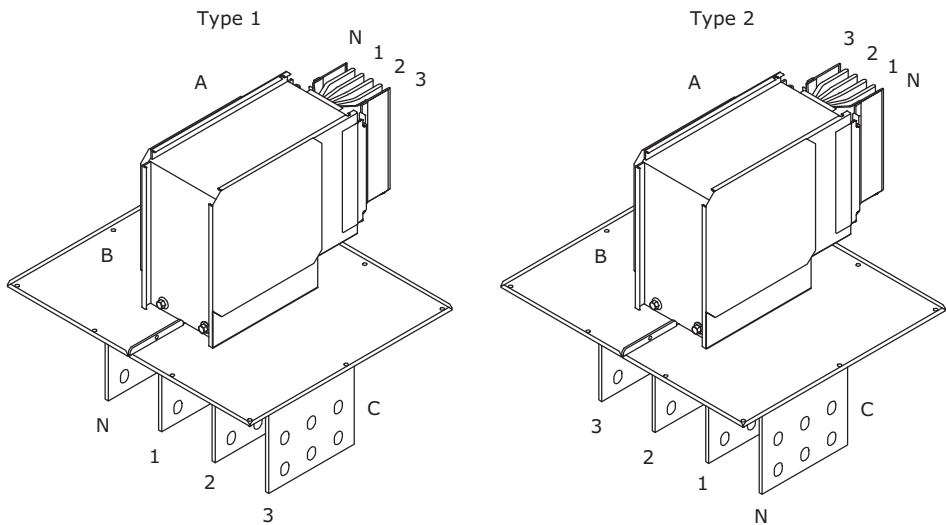
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	Code
630	230	100	200	1200	1000	PTA06EVET1AA000
800	230	100	200	1200	1000	PTA08EVET1AA000
1000	240	110	200	1200	1000	PTA10EVET1AA000
1250	250	120	200	1200	1000	PTA13EVET1AA000
1600	280	150	200	1200	1000	PTA16EVET1AA000
2000	300	170	200	1200	1000	PTA20EVET1AA000
2500	320	190	200	1200	1000	PTA25EVET1AA000
3200	370	235	200	1200	1000	PTA32EVET1AA000
4000	410	275	200	1200	1000	PTA40EVET1AA000
5000	450	315	200	1200	1000	PTA50EVET1AA000

Coding

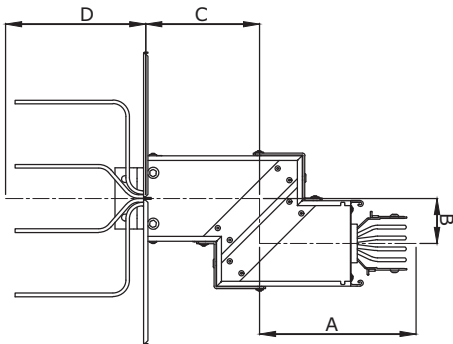
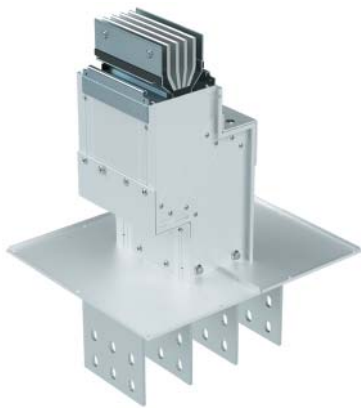
VET1 – type 1  
VET2 – type 2

Designs

3P+N+PE (enclosure)	PTA06EVET1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GVET1AA000



Terminal switchboard/transformer with double horizontal elbow



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- contact group is made of tinned aluminum;
  - lengths are specified to an axis of a monoblock.

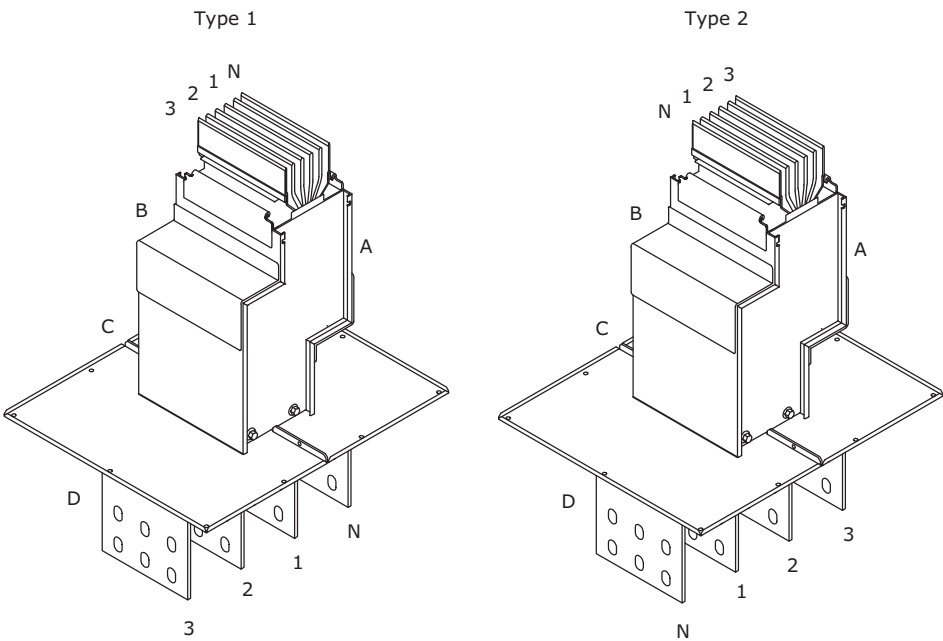
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	250	70	180	1200	800	800	PTA06EDHT1AA000
800	250	70	180	1200	800	800	PTA08EDHT1AA000
1000	250	70	180	1200	800	800	PTA10EDHT1AA000
1250	250	70	180	1200	800	800	PTA13EDHT1AA000
1600	250	70	180	1200	800	800	PTA16EDHT1AA000
2000	250	70	180	1200	800	800	PTA20EDHT1AA000
2500	250	70	180	1200	800	800	PTA25EDHT1AA000
3200	250	70	180	1200	800	800	PTA32EDHT1AA000
4000	250	70	180	1200	800	800	PTA40EDHT1AA000
5000	250	70	180	1200	800	800	PTA50EDHT1AA000

**Coding**

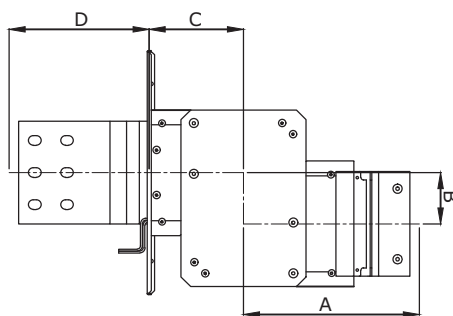
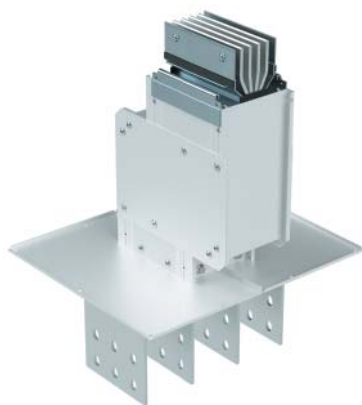
DHT1 – type 1  
DHT2 – type 2

**Designs**

3P+N+PE (enclosure)	PTA06EDHT1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GDHT1AA000



## Terminal switchboard/transformer with double vertical elbow



### Purpose:

- entry of a busbar into an enclosure or to an oil transformer connection.

### Characteristics:

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	230	80	100	1200	1200	900	PTA06EDVT1AA000
800	230	80	100	1200	1200	900	PTA08EDVT1AA000
1000	240	80	110	1200	1200	900	PTA10EDVT1AA000
1250	250	80	120	1200	1200	900	PTA13EDVT1AA000
1600	280	80	150	1200	1200	900	PTA16EDVT1AA000
2000	300	80	170	1200	1200	900	PTA20EDVT1AA000
2500	320	80	190	1200	1200	900	PTA25EDVT1AA000
3200	370	80	235	1200	1200	900	PTA32EDVT1AA000
4000	410	80	275	1200	1200	900	PTA40EDVT1AA000
5000	450	80	315	1200	1200	900	PTA50EDVT1AA000

### Coding

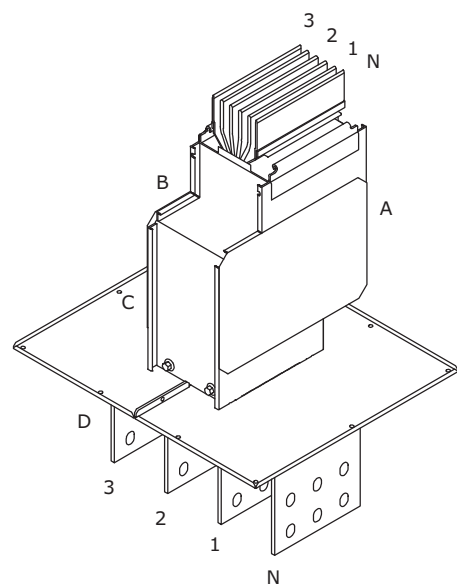
DVT1 – type 1

DVT2 – type 2

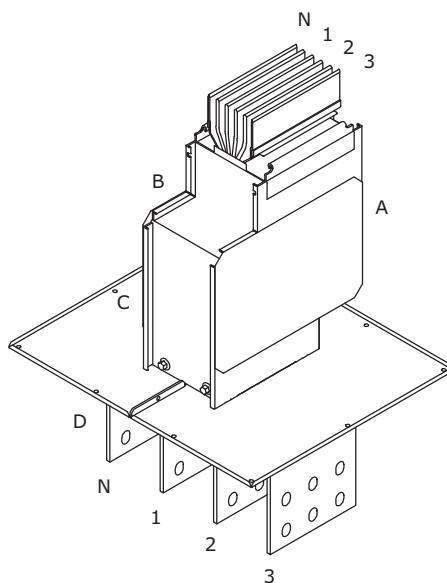
### Designs

3P+N+PE (enclosure)	PTA06EDVT1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GDVT1AA000

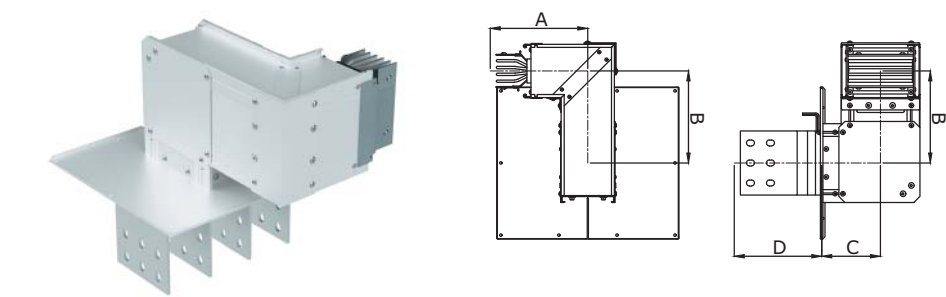
Type 1



Type 2



Terminal switchboard/transformer with vertical and horizontal elbows



**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

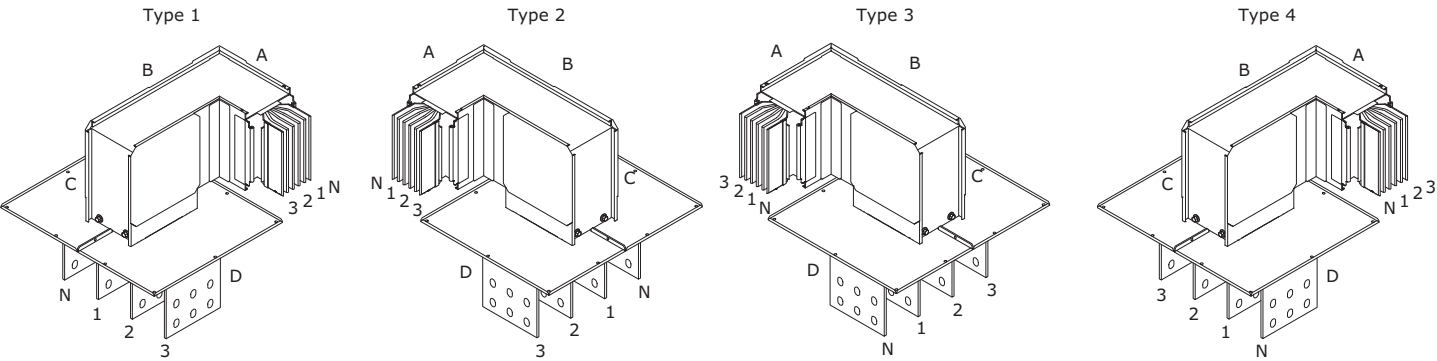
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	250	180	100	1000	1200	900	PTA06EHVT1AA000
800	250	180	100	1000	1200	900	PTA08EHVT1AA000
1000	250	190	110	1000	1200	900	PTA10EHVT1AA000
1250	250	200	120	1000	1200	900	PTA13EHVT1AA000
1600	250	230	150	1000	1200	900	PTA16EHVT1AA000
2000	250	250	170	1000	1200	900	PTA20EHVT1AA000
2500	250	270	190	1000	1200	900	PTA25EHVT1AA000
3200	250	315	235	1000	1200	900	PTA32EHVT1AA000
4000	250	355	275	1000	1200	900	PTA40EHVT1AA000
5000	250	395	315	1000	1200	900	PTA50EHVT1AA000

**Coding**

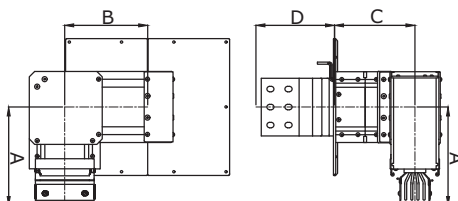
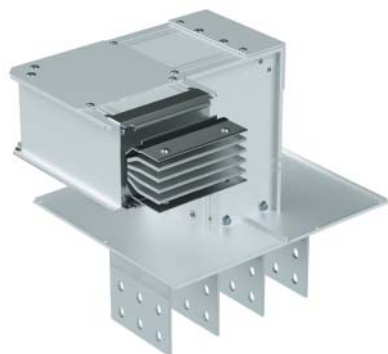
HVT1 – type 1  
HVT2 – type 2  
HVT3 – type 3  
HVT4 – type 4

Designs

3P+N+PE (enclosure)	PTA06EHVT1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GHVT1AA000



## Terminal switchboard/transformer with horizontal and vertical elbows



### Purpose:

- entry of a busbar into an enclosure or to an oil transformer connection.

### Characteristics:

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

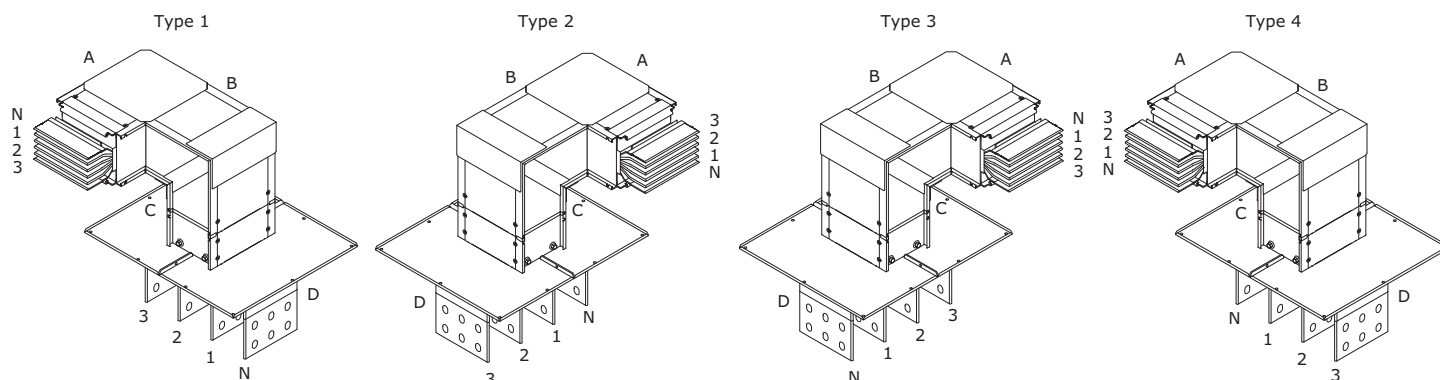
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
630	230	180	180	1200	1200	800	PTA06EVHT1AA000
800	230	180	180	1200	1200	800	PTA08EVHT1AA000
1000	240	190	180	1200	1200	800	PTA10EVHT1AA000
1250	250	200	180	1200	1200	800	PTA13EVHT1AA000
1600	280	230	180	1200	1200	800	PTA16EVHT1AA000
2000	300	250	180	1200	1200	800	PTA20EVHT1AA000
2500	320	270	180	1200	1200	800	PTA25EVHT1AA000
3200	370	315	180	1200	1200	800	PTA32EVHT1AA000
4000	410	355	180	1200	1200	800	PTA40EVHT1AA000
5000	450	395	180	1200	1200	800	PTA50EVHT1AA000

### Coding

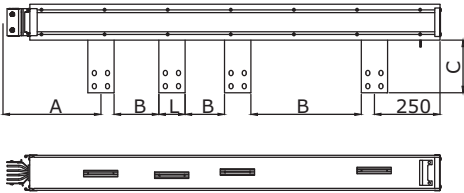
VHT1 – type 1  
VHT2 – type 2  
VHT3 – type 3  
VHT4 – type 4

### Designs

3P+N+PE (enclosure)	PTA06EVHT1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GVHT1AA000



Terminal parallel phases



- Purpose:**
- connection of a busbar to cast resin transformer.
- Characteristics:**
- phase spacing is made for specific connection dimensions of transformer;
  - phase sequence is selected for specific transformer;
  - 3200–5000 A ratings have two parallel connecting contacts.

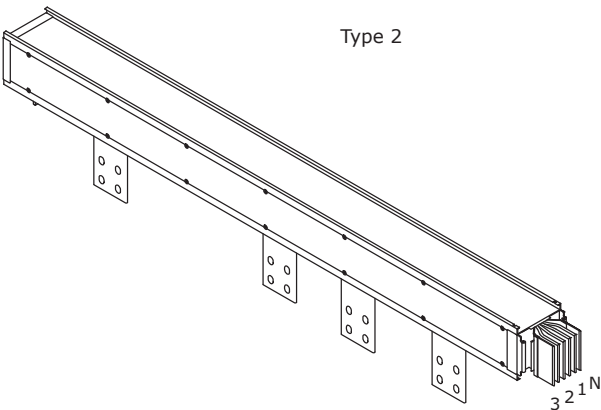
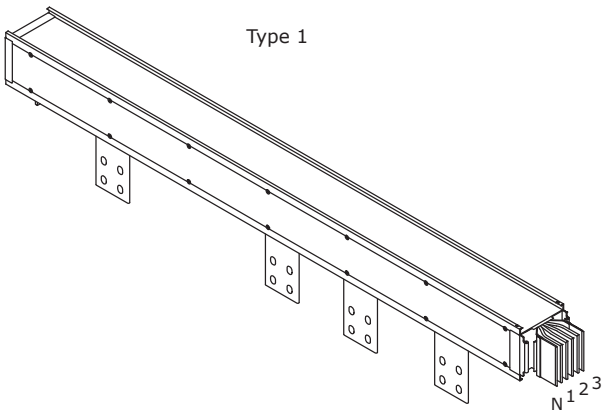
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	C maximum, mm	Code
630	450	40	150	60	1200	300	PTA06ETPP1AA000
800	450	40	150	60	1200	300	PTA08ETPP1AA000
1000	450	40	150	80	1200	300	PTA10ETPP1AA000
1250	450	40	150	100	1200	300	PTA13ETPP1AA000
1600	450	40	150	160	1200	300	PTA16ETPP1AA000
2000	450	40	150	200	1200	300	PTA20ETPP1AA000
2500	450	40	150	240	1200	300	PTA25ETPP1AA000
3200	450	40	150	160	1200	300	PTA32ETPP1AA000
4000	450	40	150	200	1200	300	PTA40ETPP1AA000
5000	450	40	150	240	1200	300	PTA50ETPP1AA000

**Coding**

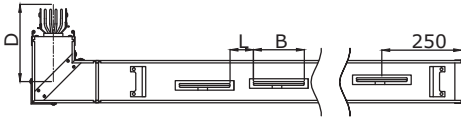
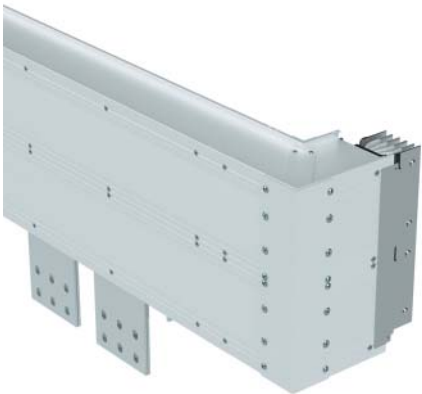
TPP1 – type 1  
TPP2 – type 2

Designs

3P+N+PE (enclosure)	PTA06ETPP1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GTPP1AA000



Terminal parallel phases with horizontal elbow



- Purpose:**
- connection of a busbar to cast resin transformer.
- Characteristics:**
- phase spacing is made for specific connection dimensions of transformer;
  - phase sequence is selected for specific transformer;
  - 3200–5000 A ratings have two parallel connecting contacts.

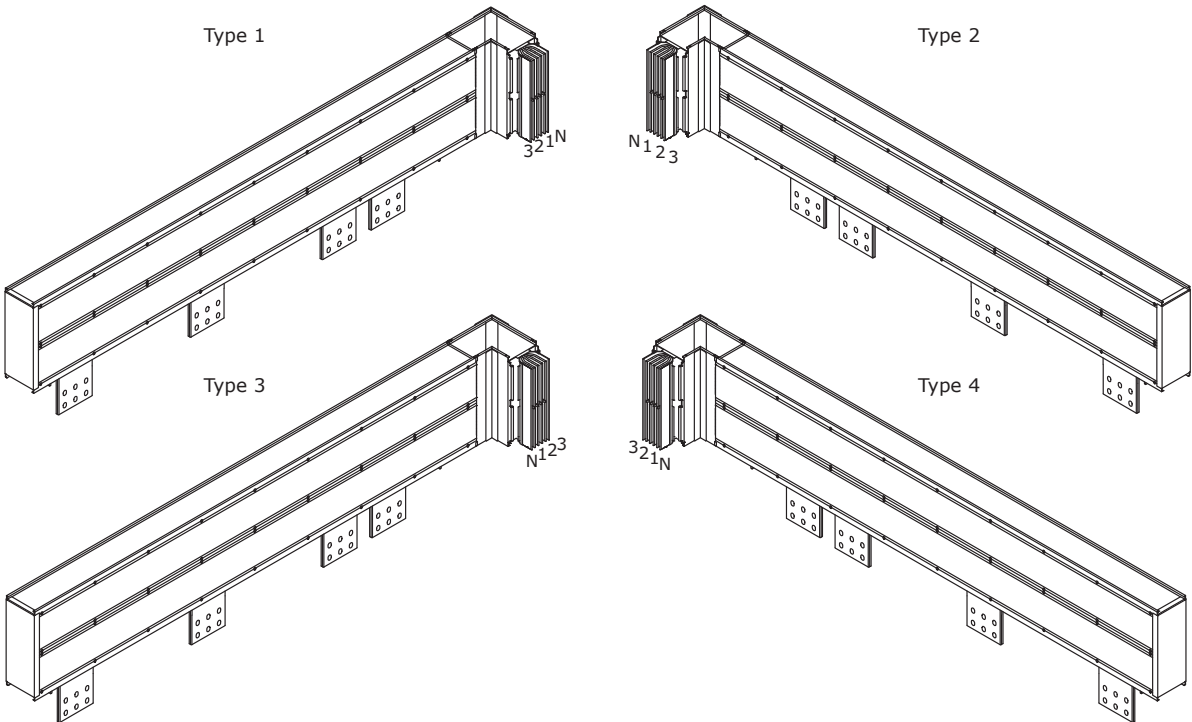
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	D standard, mm	D maximum, mm	Code
630	450	40	150	60	1200	300	1200	PTA06E <b>HTP1</b> AA000
800	450	40	150	60	1200	300	1200	PTA08E <b>HTP1</b> AA000
1000	450	40	150	80	1200	300	1200	PTA10E <b>HTP1</b> AA000
1250	450	40	150	100	1200	300	1200	PTA13E <b>HTP1</b> AA000
1600	450	40	150	160	1200	300	1200	PTA16E <b>HTP1</b> AA000
2000	450	40	150	200	1200	300	1200	PTA20E <b>HTP1</b> AA000
2500	450	40	150	240	1200	300	1200	PTA25E <b>HTP1</b> AA000
3200	450	40	150	160	1200	300	1200	PTA32E <b>HTP1</b> AA000
4000	450	40	150	200	1200	300	1200	PTA40E <b>HTP1</b> AA000
5000	450	40	150	240	1200	300	1200	PTA50E <b>HTP1</b> AA000

Coding

- HTP1 – type 1
- HTP2 – type 2
- HTP3 – type 3
- HTP4 – type 4

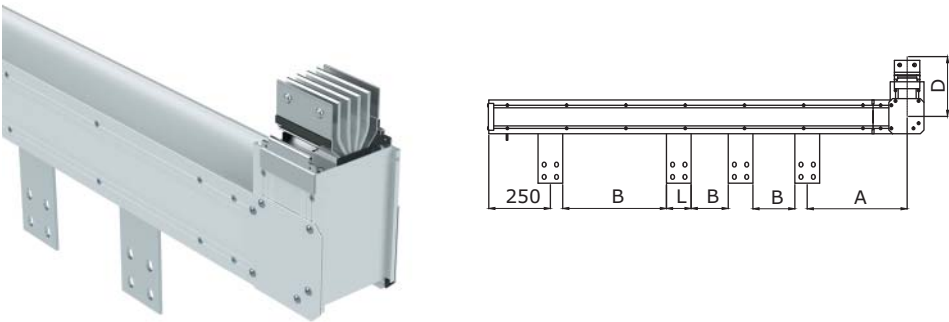
Designs

3P+N+PE (enclosure)	PTA06E <b>HTP1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>G</b> HTP1AA000





Terminal parallel phases with vertical elbow



- Purpose:**
- connection of a busbar to cast resin transformer.
- Characteristics:**
- phase spacing is made for specific connection dimensions of transformer;
  - phase sequence is selected for specific transformer;
  - 3200–5000 A ratings have two parallel connecting contacts.

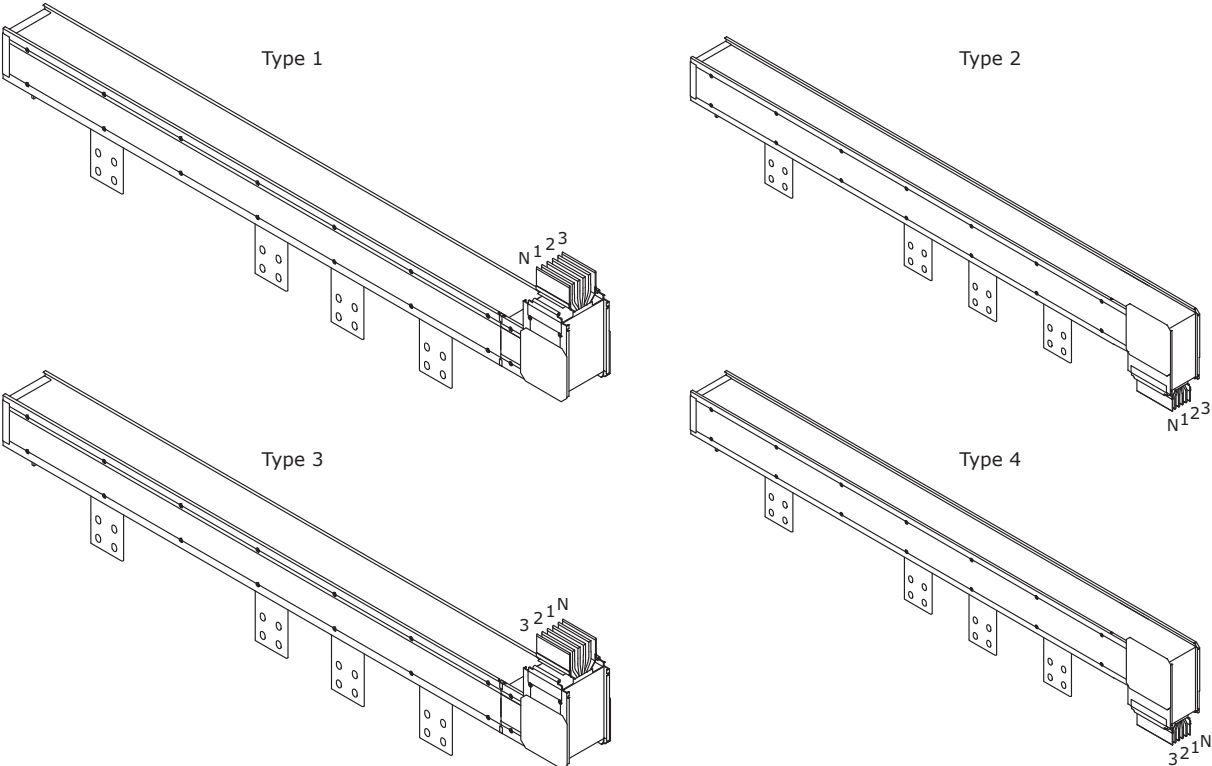
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	D standard, mm	D maximum, mm	Code
630	450	40	150	60	1200	230	1200	PTA06EVTP1AA000
800	450	40	150	60	1200	230	1200	PTA08EVTP1AA000
1000	450	40	150	80	1200	240	1200	PTA10EVTP1AA000
1250	450	40	150	100	1200	250	1200	PTA13EVTP1AA000
1600	450	40	150	160	1200	280	1200	PTA16EVTP1AA000
2000	450	40	150	200	1200	300	1200	PTA20EVTP1AA000
2500	450	40	150	240	1200	320	1200	PTA25EVTP1AA000
3200	450	40	150	160	1200	370	1200	PTA32EVTP1AA000
4000	450	40	150	200	1200	410	1200	PTA40EVTP1AA000
5000	450	40	150	240	1200	450	1200	PTA50EVTP1AA000

**Coding**

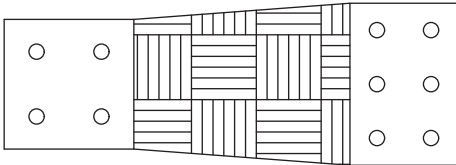
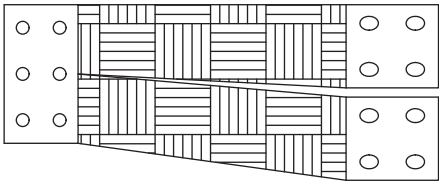
VTP1 – type 1  
VTP2 – type 2  
VTP3 – type 3  
VTP4 – type 4

Designs

3P+N+PE (enclosure)	PTA06EVTP1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GVTP1AA000



Flexible joint



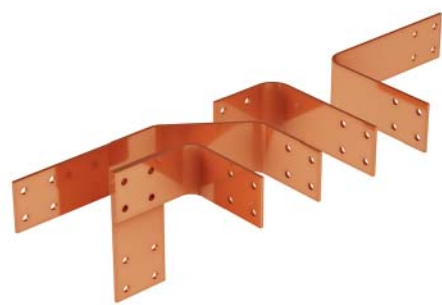
- Purpose:**
- connection of a busbar to transformer.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
630	PTA06EFLXJAA000
800	PTA08EFLXJAA000
1000	PTA10EFLXJAA000
1250	PTA13EFLXJAA000
1600	PTA16EFLXJAA000
2000	PTA20EFLXJAA000
2500	PTA25EFLXJAA000
3200	PTA32EFLXJAA000
4000	PTA40EFLXJAA000
5000	PTA50EFLXJAA000

Designs

3P+N+PE (enclosure)	PTA06EFLXJAA000
3P+N+FE (bus)+PE (enclosure)	PTA06GFLXJAA000

Cast resin transformer connection



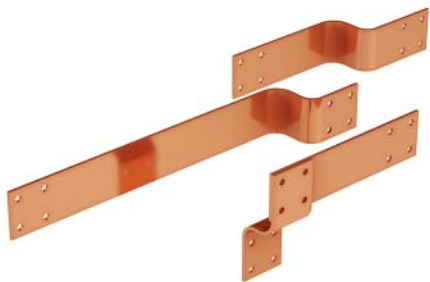
- Purpose:**
- connection of a busbar to cast resin transformer.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
630	PTA06ETRRCAA000
800	PTA08ETRRCAA000
1000	PTA10ETRRCAA000
1250	PTA13ETRRCAA000
1600	PTA16ETRRCAA000
2000	PTA20ETRRCAA000
2500	PTA25ETRRCAA000
3200	PTA32ETRRCAA000
4000	PTA40ETRRCAA000
5000	PTA50ETRRCAA000

Designs

3P+N+PE (enclosure)	PTA06ETRRCAA000
3P+N+FE (bus)+PE (enclosure)	PTA06GTRRCAA000

## Oil transformer connection



### Purpose:

- connection of a busbar to oil transformer.

### Characteristics:

- made for specific dimensions of transformer contact group;
- kit may include from 4 to 16 buses.

Rated current, A	Code
630	PTA06ETROCAA000
800	PTA08ETROCAA000
1000	PTA10ETROCAA000
1250	PTA13ETROCAA000
1600	PTA16ETROCAA000
2000	PTA20ETROCAA000
2500	PTA25ETROCAA000
3200	PTA32ETROCAA000
4000	PTA40ETROCAA000
5000	PTA50ETROCAA000

### Designs

3P+N+PE (enclosure)	PTA06ETROCAA000
3P+N+FE (bus)+PE (enclosure)	PTA06GTROCAA000

Extension bars "I"



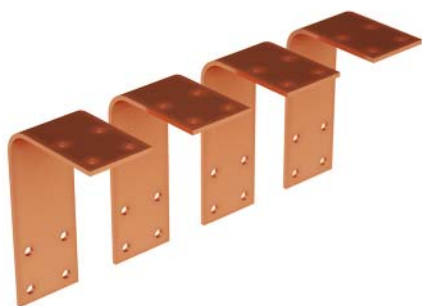
- Purpose:**
- outlet of transformer contact group in a vertical plane.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
630	PTA06EEXTIAA000
800	PTA08EEXTIAA000
1000	PTA10EEXTIAA000
1250	PTA13EEXTIAA000
1600	PTA16EEXTIAA000
2000	PTA20EEXTIAA000
2500	PTA25EEXTIAA000
3200	PTA32EEXTIAA000
4000	PTA40EEXTIAA000
5000	PTA50EEXTIAA000

Designs

3P+N+PE (enclosure)	PTA06EEXTIAA000
3P+N+FE (bus)+PE (enclosure)	PTA06GEXTIAA000

## Extension bars "L"



### Purpose:

- outlet of transformer contact group in a horizontal plane.

### Characteristics:

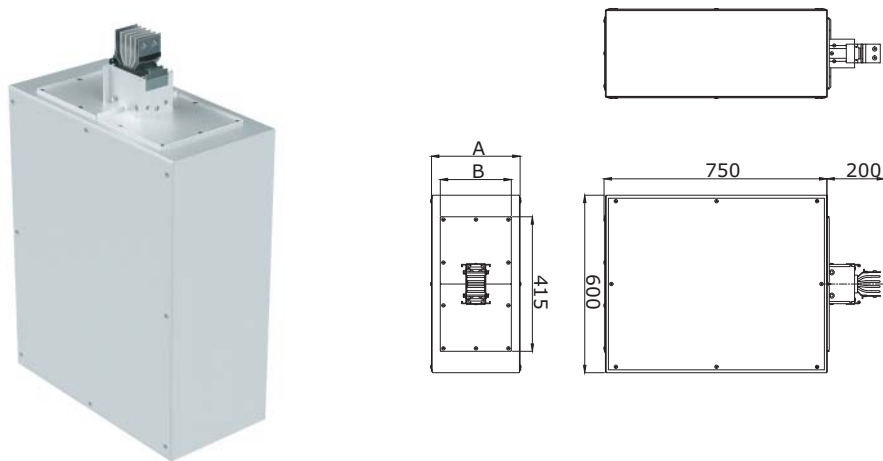
- made for specific dimensions of transformer contact group;
- kit may include from 4 to 16 buses.

Rated current, A	Code
630	PTA06EEXTLAA000
800	PTA08EEXTLAA000
1000	PTA10EEXTLAA000
1250	PTA13EEXTLAA000
1600	PTA16EEXTLAA000
2000	PTA20EEXTLAA000
2500	PTA25EEXTLAA000
3200	PTA32EEXTLAA000
4000	PTA40EEXTLAA000
5000	PTA50EEXTLAA000

### Designs

3P+N+PE (enclosure)	PTA06EEXTLAA000
3P+N+FE (bus)+PE (enclosure)	PTA06GEXTLAA000

Feeder



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- contact group is made of tinned aluminum;
  - removable side and bottom wall.

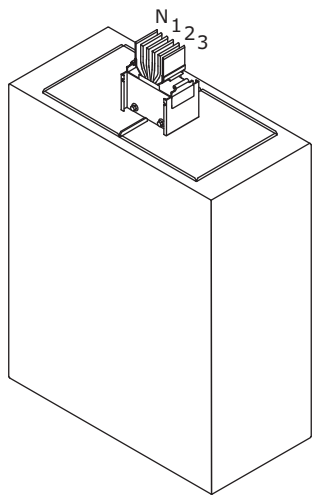
Rated current, A	A standard, mm	B standard, mm	C standard, mm	D standard, mm	Code
630	300	200	415	200	PTA06EFED1AA000
800	300	200	415	200	PTA08EFED1AA000
1000	300	200	415	200	PTA10EFED1AA000
1250	300	200	415	200	PTA13EFED1AA000
1600	450	340	415	200	PTA16EFED1AA000
2000	450	340	415	200	PTA20EFED1AA000
2500	450	340	415	200	PTA25EFED1AA000
3200	700	585	415	200	PTA32EFED1AA000
4000	700	585	415	200	PTA40EFED1AA000
5000	700	585	415	200	PTA50EFED1AA000

**Coding**

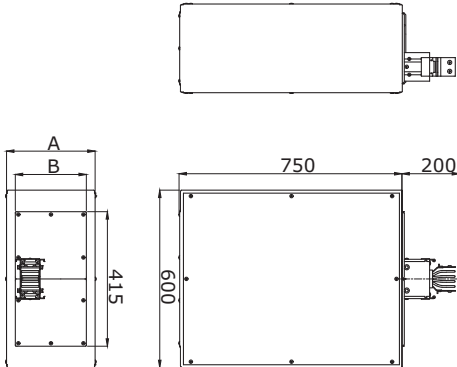
FED1 means standard dimensions  
FED2 means non-standard dimensions

Designs

3P+N+PE (enclosure)	PTA06EFED1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GFED1AA000



Feeder for vertical runs



- Purpose:**
- connection of a busbar with vertical configuration to a cable line.
- Characteristics:**
- contact group is made of tinned aluminum;
  - removable side and bottom wall.

Rated current, A	A standard, mm	B standard, mm	C standard, mm	D standard, mm	E standard, mm	Code
630	300	200	415	200	100	PTA06 <b>FVR1</b> AA000
800	300	200	415	200	100	PTA08 <b>FVR1</b> AA000
1000	300	200	415	200	100	PTA10 <b>FVR1</b> AA000
1250	300	200	415	200	100	PTA13 <b>FVR1</b> AA000
1600	450	340	415	200	100	PTA16 <b>FVR1</b> AA000
2000	450	340	415	200	100	PTA20 <b>FVR1</b> AA000
2500	450	340	415	200	100	PTA25 <b>FVR1</b> AA000
3200	700	585	415	200	100	PTA32 <b>FVR1</b> AA000
4000	700	585	415	200	100	PTA40 <b>FVR1</b> AA000
5000	700	585	415	200	100	PTA50 <b>FVR1</b> AA000

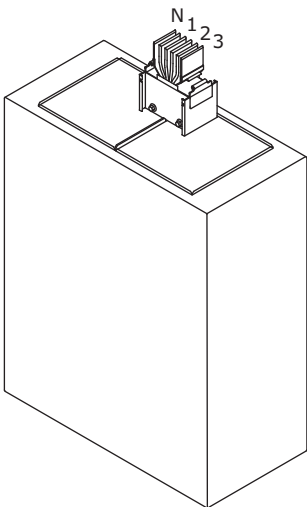
Coding

- FVR1 – type 1, standard dimensions  
FVR2 – type 2, standard dimensions  
FVR3 – type 1, non-standard dimensions  
FVR4 – type 2, non-standard dimensions

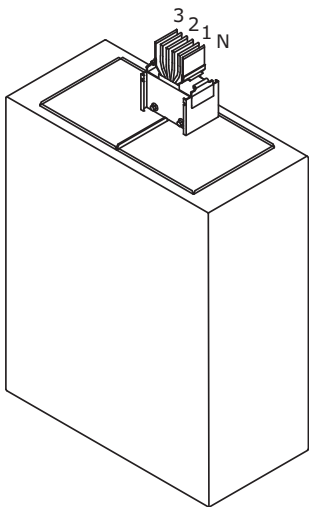
Designs

3P+N+PE (enclosure)	PTA06 <b>EFVR1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>GFVR1</b> AA000

Type 1



Type 2





Straight element with phases transposition



**Purpose:**  
• phase sequence change.

Rated current, A	Code
630	PTA06 <b>ESPT1</b> AA000
800	PTA08 <b>ESPT1</b> AA000
1000	PTA10 <b>ESPT1</b> AA000
1250	PTA13 <b>ESPT1</b> AA000
1600	PTA16 <b>ESPT1</b> AA000
2000	PTA20 <b>ESPT1</b> AA000
2500	PTA25 <b>ESPT1</b> AA000
3200	PTA32 <b>ESPT1</b> AA000
4000	PTA40 <b>ESPT1</b> AA000
5000	PTA50 <b>ESPT1</b> AA000

**Coding**  
SPT1 – type 1, standard dimensions  
SPT2 – type 2, standard dimensions  
SPT3 – type 3, non-standard dimensions  
SPTS – special

Designs	
3P+N+PE (enclosure)	PTA06 <b>ESPT1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTA06 <b>GSPT1</b> AA000

## Reducing section



### Purpose:

- transfer from one busbar rating to another.

### Characteristics:

- contact group is made of tinned aluminum;
- lengths are specified between axes of monoblocks.

Rated current, A	Code
630	PTA06ERRE1AA000
800	PTA08ERRE1AA000
1000	PTA10ERRE1AA000
1250	PTA13ERRE1AA000
1600	PTA16ERRE1AA000
2000	PTA20ERRE1AA000
2500	PTA25ERRE1AA000
3200	PTA32ERRE1AA000
4000	PTA40ERRE1AA000
5000	PTA50ERRE1AA000

### Coding

RRE1 – type 1

RRE2 – type 2

### Designs

3P+N+PE (enclosure)	PTA06ERRE1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GRRE1AA000

## Protection box



### Purpose:

- protection of busbar connection point to switchboard/oil transformer.

Rated current, A	Code
630	PTA06EPRB1AA000
800	PTA08EPRB1AA000
1000	PTA10EPRB1AA000
1250	PTA13EPRB1AA000
1600	PTA16EPRB1AA000
2000	PTA20EPRB1AA000
2500	PTA25EPRB1AA000
3200	PTA32EPRB1AA000
4000	PTA40EPRB1AA000
5000	PTA50EPRB1AA000

### Coding

PRB1 – type 1

PRB2 – type 2

### Designs

3P+N+PE (enclosure)	PTA06EPRB1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GPRB1AA000

## Section isolator



### Purpose:

- designed for switching of an electric circuit that has a clearance when switched off for provision of safety.

### Characteristics:

- contact group is made of tinned aluminum;
- lengths are specified between axes of monoblocks.

Rated current, A	Code
630	PTA06ESIS1AA000
800	PTA08ESIS1AA000
1000	PTA10ESIS1AA000
1250	PTA13ESIS1AA000
1600	PTA16ESIS1AA000
2000	PTA20ESIS1AA000
2500	PTA25ESIS1AA000
3200	PTA32ESIS1AA000
4000	PTA40ESIS1AA000
5000	PTA50ESIS1AA000

### Coding

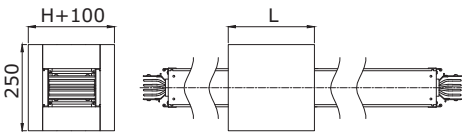
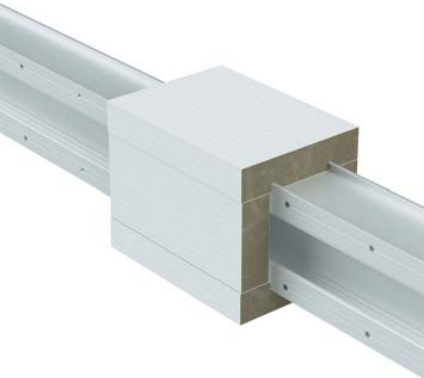
SIS1 – type 1

SIS2 – type 2

### Designs

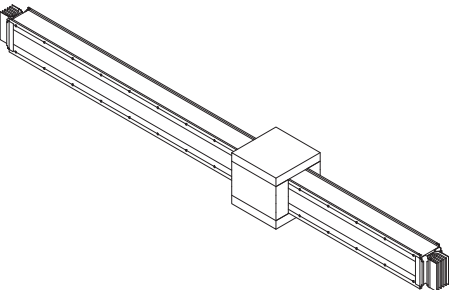
3P+N+PE (enclosure)	PTA06ESIS1AA000
3P+N+FE (bus)+PE (enclosure)	PTA06GSIS1AA000

Fire barrier

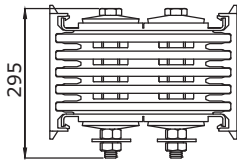
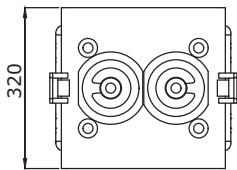
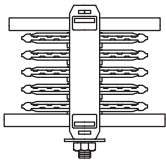


- Purpose:**
- busbar barrier through partition walls and walls with specified fire resistance.
- Characteristics:**
- assembled from the materials of "Vulcan" fire-resistant penetrations group according to the instructions.

Rated current, A	120 minutes (depth of 500 mm)			180 minutes (depth of 1000 mm)		
	DP1201	DT1201	DS1201	DP1201	DT1201	DS1201
630	1 pce	1 m	2 kg	2 pcs	2 m	3 kg
800	1 pce	1 m	2 kg	2 pcs	2 m	3 kg
1000	1 pce	2 m	2 kg	2 pcs	3 m	3 kg
1250	1 pce	2 m	2 kg	2 pcs	4 m	3 kg
1600	1 pce	3 m	3 kg	2 pcs	5 m	4 kg
2000	1 pce	4 m	3 kg	2 pcs	7 m	4 kg
2500	1 pce	4 m	3 kg	2 pcs	8 m	4 kg
3200	2 pcs	5 m	3 kg	3 pcs	10 m	5 kg
4000	2 pcs	7 m	3 kg	3 pcs	14 m	5 kg
5000	2 pcs	8 m	3 kg	3 pcs	16 m	5 kg



Monoblock



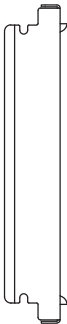
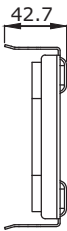
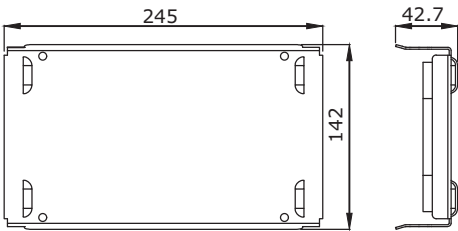
- Purpose:**
- interconnection of busbar sections;
  - compensation for thermal expansion of buses.
- Characteristics:**
- additional grooves for heat extraction in insulating dividers;
  - nut with a detachable head for ease of installation.

Rated current, A	Code
630	PTA91EMON1AA000
800	PTA91EMON1AA000
1000	PTA92EMON1AA000
1250	PTA93EMON1AA000
1600	PTA94EMON1AA000
2000	PTA95EMON1AA000
2500	PTA96EMON1AA000
3200	PTA97EMON1AA000
4000	PTA98EMON1AA000
5000	PTA99EMON1AA000

Designs

3P+N+PE (enclosure)	PTA91EMON1AA000
3P+N+FE (bus) + PE (enclosure)	PTA91GMON1AA000
3P+FE (bus) + PE (enclosure)	PTA91DMON1AA000
3P+2N+PE (enclosure)	PTA91HMON1AA000

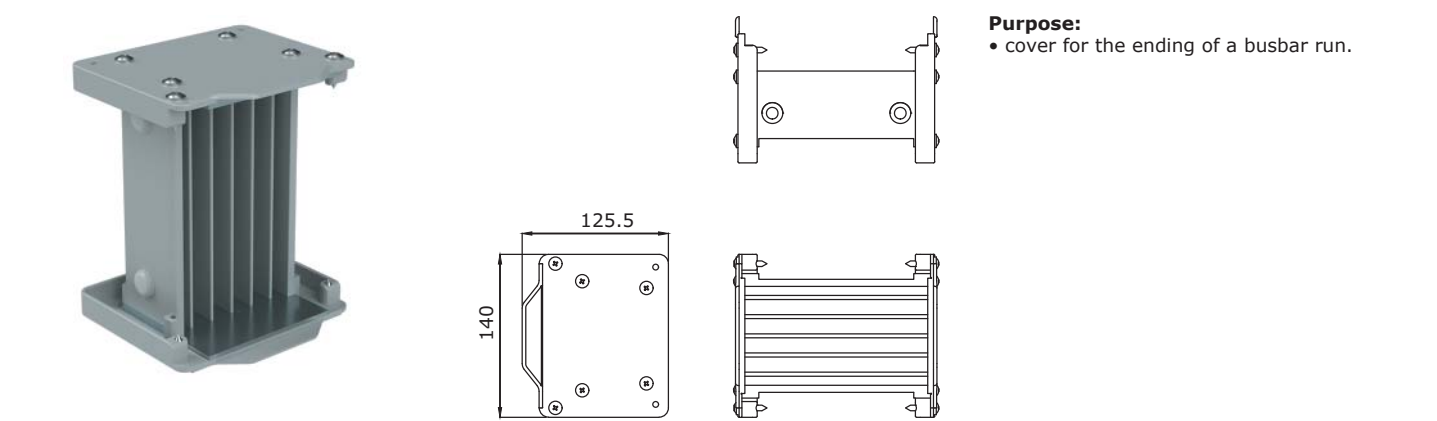
Joint cover



- Purpose:**
- interconnection of busbar sections.

Rated current, A	3P+N+PE (enclosure)	3P+N+FE (bus)+PE (enclosure)
630–5000	PTN90TJCO1AA000	PTN90UJCO1AA000

End cover

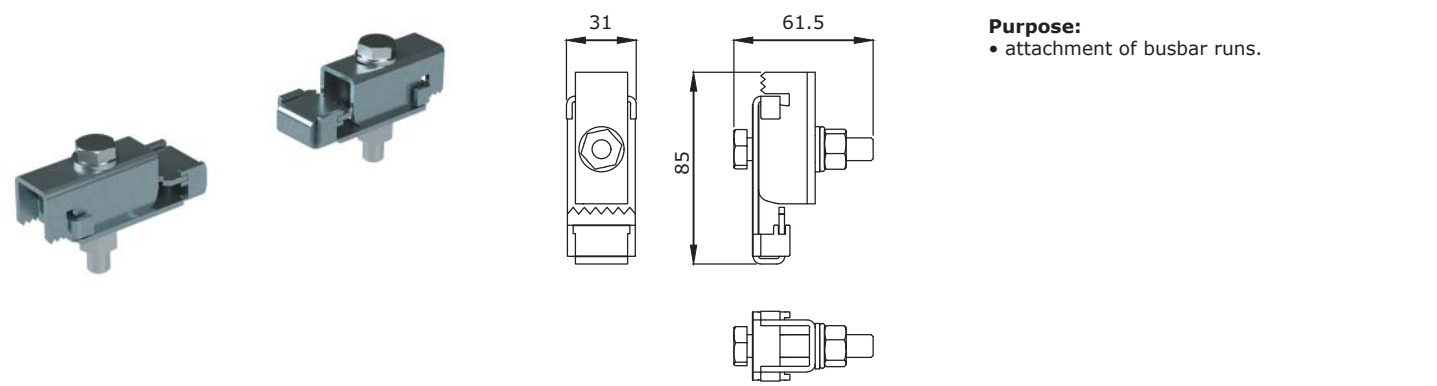


Rated current, A	Code
630	PTN91TECO1AA000
800	PTN91TECO1AA000
1000	PTN92TECO1AA000
1250	PTN93TECO1AA000
1600	PTN94TECO1AA000
2000	PTN95TECO1AA000
2500	PTN96TECO1AA000
3200	PTN97TECO1AA000
4000	PTN98TECO1AA000
5000	PTN99TECO1AA000

Designs

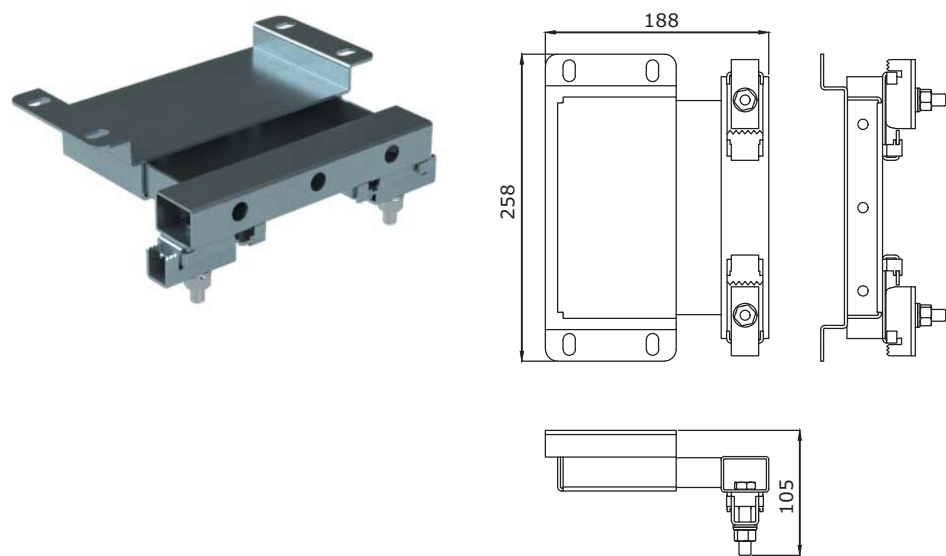
3P+N+PE (enclosure)	PTN91TECO1AA000
3P+N+FE (bus)+PE (enclosure)	PTN91UECO1AA000

Busbar fixing brackets



Universal fixing bracket
PTN90ZFIUSAA000

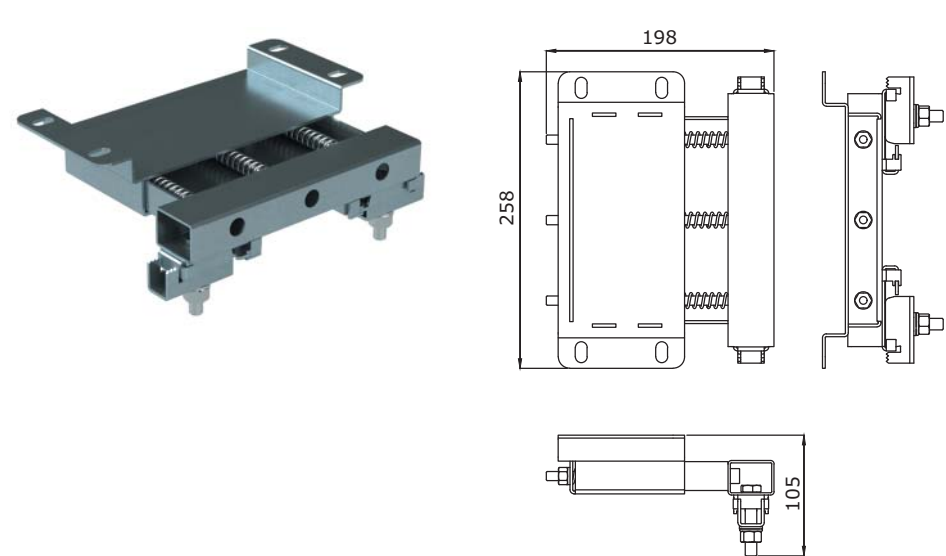
Busbar fixing bracket alignment for vertical runs



**Purpose:**  
• busbar attachment at vertical portions.

Design	Fastener for vertical runs
3P+N+PE (enclosure)	PTN90ZFVA1AA000
3P+N+FE (bus)+PE (enclosure)	PTN90ZFVA1AA000

Busbar fixing bracket with springs for vertical runs

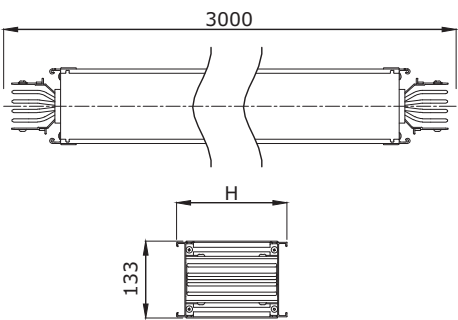


**Purpose:**  
• busbar attachment at vertical portions.

Design	Fastener for vertical runs
3P+N+PE (enclosure)	PTN90ZFVS1AA000
3P+N+FE (bus)+PE (enclosure)	PTN90ZFVS1AA000



Straight element feeder



- Purpose:**
- building of straight elements of a busbar run.
- Characteristics:**
- protection degree IP55, it is possible to increase up to IP66;
  - class F insulation of up to 155 °C, without halogens;
  - RAL 7035 powder painting, other RAL colors are possible;
  - aluminum enclosure as a PE-conductor;
  - lengths are specified between axes of monoblocks;
  - for five-wire system width is 139 mm.

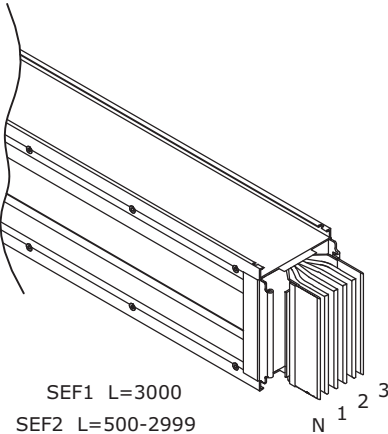
Rated current, A	Enclosure height H, mm	Specific run weight, kg/m	Bus height, mm	Code
800	96.8	17.3	60	PTC08E <b>SEF1</b> AA000
1000	96.8	17.3	60	PTC10E <b>SEF1</b> AA000
1250	116.8	23.1	80	PTC13E <b>SEF1</b> AA000
1600	136.8	27.8	100	PTC16E <b>SEF1</b> AA000
2000	196.8	41	160	PTC20E <b>SEF1</b> AA000
2500	236.8	51.3	200	PTC25E <b>SEF1</b> AA000
3200	276.8	61.3	240	PTC32E <b>SEF1</b> AA000
4000	362.3	81.1	2x160	PTC40E <b>SEF1</b> AA000
5000	442.3	101.5	2x200	PTC50E <b>SEF1</b> AA000
6300	522.3	113.6	2x240	PTC63E <b>SEF1</b> AA000

Coding

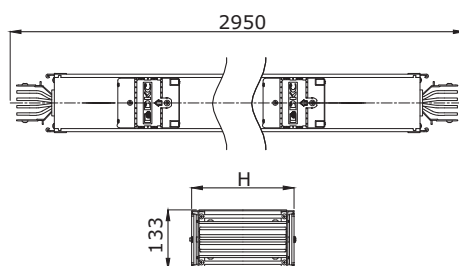
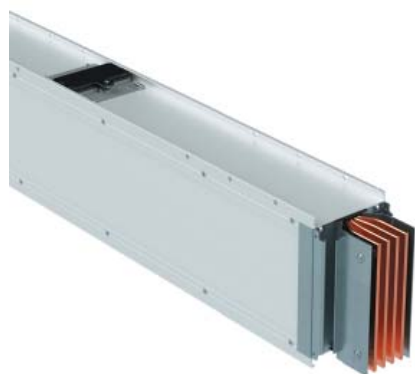
SEF1 = length of 3000 mm  
SEF2 = length of 500–2999 mm

Designs

3P+N+PE (enclosure)	PTC08E <b>SEF1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTC08G <b>SEF1</b> AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08I <b>SEF1</b> AA000



## Straight element distribution



### Purpose:

- organization of power tap-off from a busbar.

### Characteristics:

- section can be extended both upwards and downwards with plug-in points;
- connection and disconnection of boxes can be performed without disconnection of a busbar from the system;
- lengths are specified between axes of monoblocks;
- distance between plug-in points can be changed.

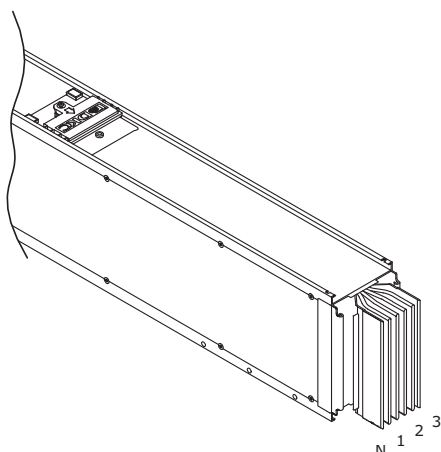
Rated current, A	Enclosure height H, mm	Specific run weight, kg/m	Bus height, mm	Code
800	96.8	17.3	60	PTC08ESP11AA000
1000	96.8	17.3	60	PTC10ESP11AA000
1250	116.8	23.1	80	PTC13ESP11AA000
1600	136.8	27.8	100	PTC16ESP11AA000
2000	196.8	41	160	PTC20ESP11AA000
2500	236.8	51.3	200	PTC25ESP11AA000
3200	276.8	61.3	240	PTC32ESP11AA000
4000	362.3	81.1	2x160	PTC40ESP11AA000
5000	442.3	101.5	2x200	PTC50ESP11AA000
6300	522.3	113.6	2x240	PTC63ESP11AA000

### Coding

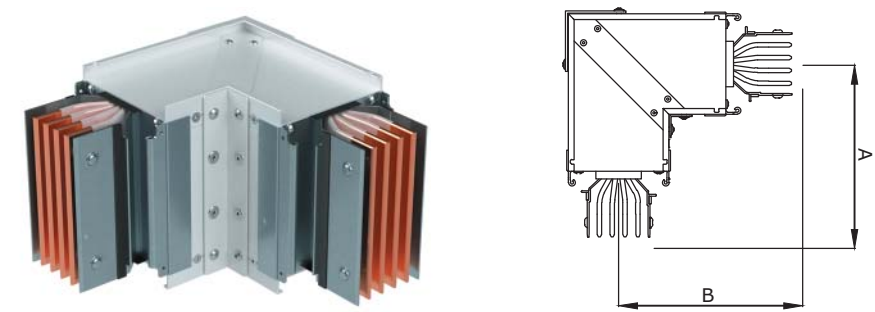
SP11 = 2950 mm, 3 plug-in points on one side  
 SP12 = 500–2950 mm, 3 plug-in points on one side  
 SP13 = 500–2950 mm, 2 plug-in points on one side  
 SP14 = 500–2950 mm, 1 plug-in point on one side  
 SP15 = 500–2950 mm, 4 plug-in points on one side  
 SP16 = 2400 mm, 2 plug-in points on one side  
 SP21 = 2950 mm, 3 plug-in points on both sides  
 SP22 = 500–2950 mm, 3 plug-in points on both sides  
 SP23 = 500–2950 mm, 2 plug-in points on both sides  
 SP24 = 500–2950 mm, 1 plug-in point on both sides  
 SP25 = 500–2950 mm, 4 plug-in points on both sides

### Designs

3P+N+PE (enclosure)	PTC08ESP11AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GSP11AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08ISP11AA000



Horizontal elbow



- Purpose:**
- horizontal run bend.
- Characteristics:**
- suitable for right and left bend;
  - lengths are specified to an axis of a monoblock.

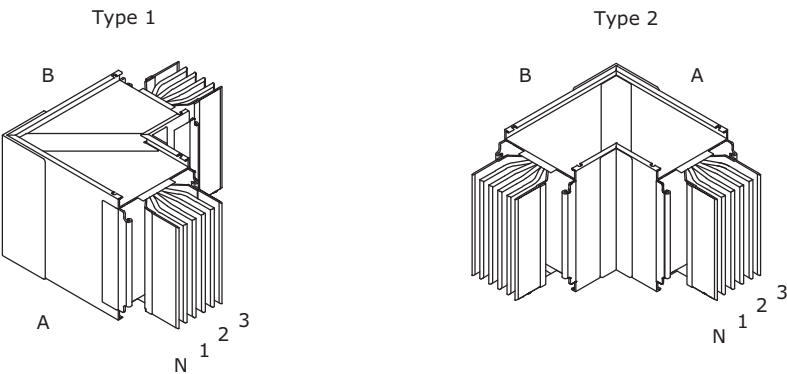
Rated current, A	A standard, mm	B standard, mm	A maximum, mm	B maximum, mm	Code
800	250	250	1200	1200	PTC08EH <b>EL1</b> AA000
1000	250	250	1200	1200	PTC10EH <b>EL1</b> AA000
1250	250	250	1200	1200	PTC13EH <b>EL1</b> AA000
1600	250	250	1200	1200	PTC16EH <b>EL1</b> AA000
2000	250	250	1200	1200	PTC20EH <b>EL1</b> AA000
2500	250	250	1200	1200	PTC25EH <b>EL1</b> AA000
3200	250	250	1200	1200	PTC32EH <b>EL1</b> AA000
4000	250	250	1200	1200	PTC40EH <b>EL1</b> AA000
5000	250	250	1200	1200	PTC50EH <b>EL1</b> AA000
6300	250	250	1200	1200	PTC63EH <b>EL1</b> AA000

Coding

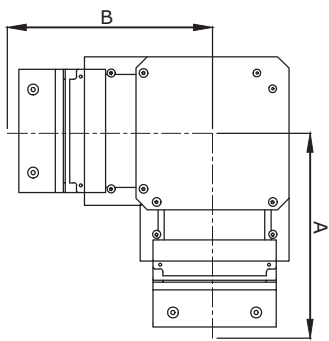
- HEL1 – type 1, standard dimensions  
HEL2 – type 2, standard dimensions  
HEL3 – type 1, non-standard dimensions  
HEL4 – type 2, non-standard dimensions  
HEL5 – type 1, non-standard elbow  
HEL6 – type 2, non-standard elbow

Designs

3P+N+PE (enclosure)	PTC08EH <b>EL1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GH <b>EL1</b> AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IH <b>EL1</b> AA000



Vertical elbow



- Purpose:**
- vertical run bend.
- Characteristics:**
- suitable for upward and downward bend;
  - lengths are specified to an axis of a monoblock.

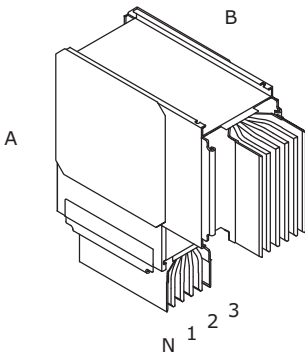
Rated current, A	A standard, mm	B standard, mm	A maximum, mm	B maximum, mm	Code
800	230	230	1200	1200	PTC08 <b>E</b> VEL1AA000
1000	230	230	1200	1200	PTC10 <b>E</b> VEL1AA000
1250	240	240	1200	1200	PTC13 <b>E</b> VEL1AA000
1600	250	250	1200	1200	PTC16 <b>E</b> VEL1AA000
2000	280	280	1200	1200	PTC20 <b>E</b> VEL1AA000
2500	300	300	1200	1200	PTC25 <b>E</b> VEL1AA000
3200	320	320	1200	1200	PTC32 <b>E</b> VEL1AA000
4000	370	370	1200	1200	PTC40 <b>E</b> VEL1AA000
5000	410	410	1200	1200	PTC50 <b>E</b> VEL1AA000
6300	450	450	1200	1200	PTC63 <b>E</b> VEL1AA000

Coding

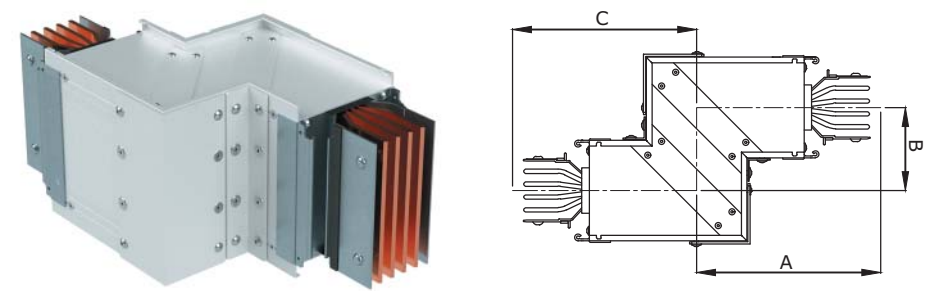
VEL1 means standard dimensions  
VEL3 means non-standard dimensions  
VEL5 means a non-standard elbow

Designs

3P+N+PE (enclosure)	PTC08 <b>E</b> VEL1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08 <b>G</b> VEL1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08 <b>I</b> VEL1AA000



Double horizontal elbow



**Purpose:**

- bypassing an obstruction in horizontal plane.

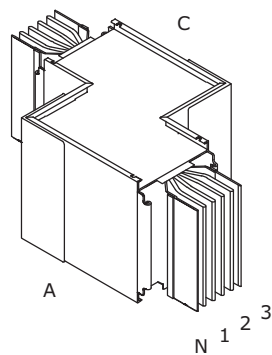
**Characteristics:**

- the dimensions are selected from a set range;
- lengths are specified to an axis of a monoblock.

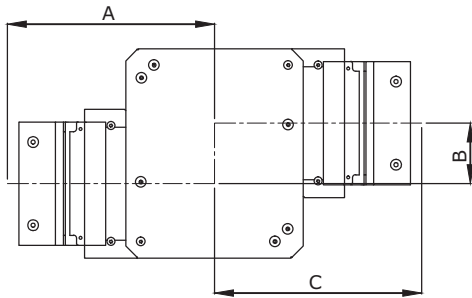
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	250	70	250	1000	1000	1000	PTC08EDHE1AA000
1000	250	70	250	1000	1000	1000	PTC10EDHE1AA000
1250	250	70	250	1000	1000	1000	PTC13EDHE1AA000
1600	250	70	250	1000	1000	1000	PTC16EDHE1AA000
2000	250	70	250	1000	1000	1000	PTC20EDHE1AA000
2500	250	70	250	1000	1000	1000	PTC25EDHE1AA000
3200	250	70	250	1000	1000	1000	PTC32EDHE1AA000
4000	250	70	250	1000	1000	1000	PTC40EDHE1AA000
5000	250	70	250	1000	1000	1000	PTC50EDHE1AA000
6300	250	70	250	1000	1000	1000	PTC63EDHE1AA000

Designs

3P+N+PE (enclosure)	PTC08EDHE1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GDHE1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IDHE1AA000



### Double vertical elbow



- Purpose:**
- bypassing an obstruction in vertical plane.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	230	80	230	1200	1200	1200	PTC08EDVE1AA000
1000	230	80	230	1200	1200	1200	PTC10EDVE1AA000
1250	240	80	240	1200	1200	1200	PTC13EDVE1AA000
1600	250	80	250	1200	1200	1200	PTC16EDVE1AA000
2000	280	80	280	1200	1200	1200	PTC20EDVE1AA000
2500	300	80	300	1200	1200	1200	PTC25EDVE1AA000
3200	320	80	320	1200	1200	1200	PTC32EDVE1AA000
4000	370	80	370	1200	1200	1200	PTC40EDVE1AA000
5000	410	80	410	1200	1200	1200	PTC50EDVE1AA000
6300	450	80	450	1200	1200	1200	PTC63EDVE1AA000

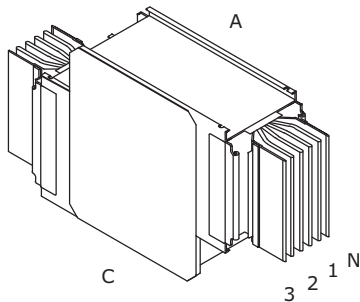
### Coding

- DVE1 – type 1  
DVE2 – type 2

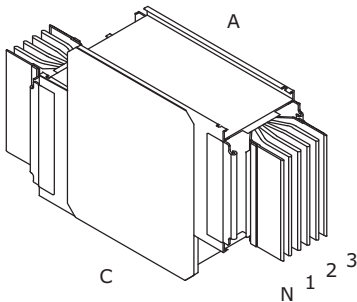
### Designs

3P+N+PE (enclosure)	PTC08EDVE1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GDVE1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IDVE1AA000

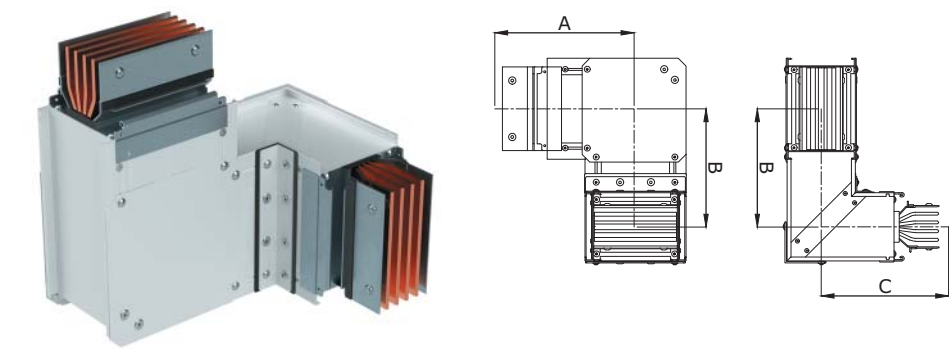
Type 1



Type 2



Horizontal + vertical elbows



- Purpose:**
- run bend in two planes.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

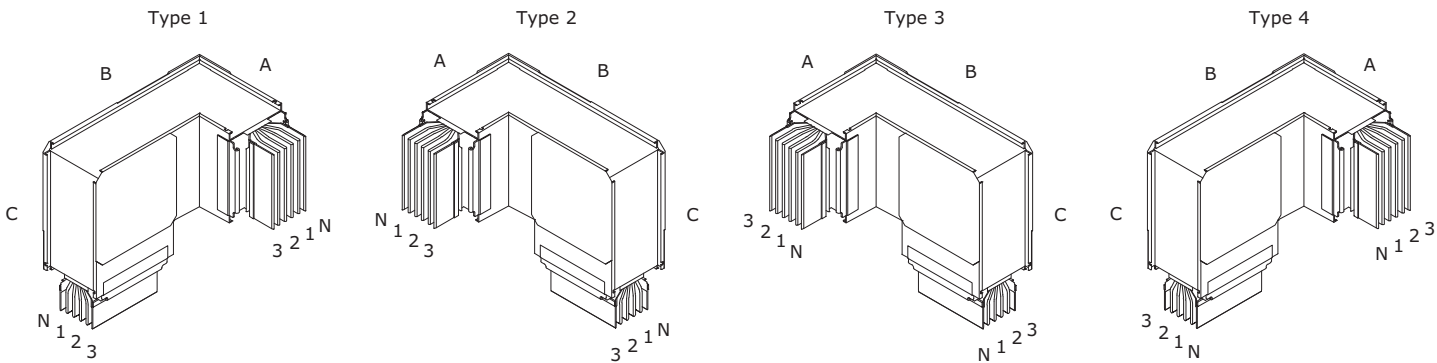
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	250	180	230	1000	1000	1000	PTC08EHVE1AA000
1000	250	180	230	1000	1000	1000	PTC10EHVE1AA000
1250	250	190	240	1000	1000	1000	PTC13EHVE1AA000
1600	250	200	250	1000	1000	1000	PTC16EHVE1AA000
2000	250	230	280	1000	1000	1000	PTC20EHVE1AA000
2500	250	250	300	1000	1000	1000	PTC25EHVE1AA000
3200	250	270	320	1000	1000	1000	PTC32EHVE1AA000
4000	250	315	370	1000	1000	1000	PTC40EHVE1AA000
5000	250	355	410	1000	1000	1000	PTC50EHVE1AA000
6300	250	395	450	1000	1000	1000	PTC63EHVE1AA000

Coding

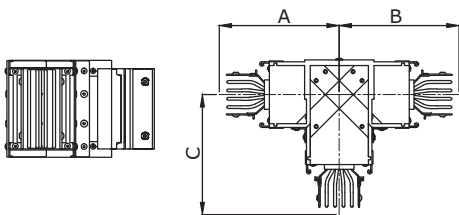
- HVE1 – type 1
- HVE2 – type 2
- HVE3 – type 3
- HVE4 – type 4

Designs

3P+N+PE (enclosure)	PTC08EHVE1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GHVE1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IHVE1AA000



Horizontal Tee



**Purpose:**

- run bend in horizontal plane.

**Characteristics:**

- the dimensions are selected from a set range;
- lengths are specified to an axis of a monoblock.

Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	500	500	500	1200	1200	1200	PTC08EHTE1AA000
1000	500	500	500	1200	1200	1200	PTC10EHTE1AA000
1250	500	500	500	1200	1200	1200	PTC13EHTE1AA000
1600	500	500	500	1200	1200	1200	PTC16EHTE1AA000
2000	500	500	500	1200	1200	1200	PTC20EHTE1AA000
2500	600	600	600	1200	1200	1200	PTC25EHTE1AA000
3200	600	600	600	1200	1200	1200	PTC32EHTE1AA000
4000	600	600	600	1200	1200	1200	PTC40EHTE1AA000
5000	600	600	600	1200	1200	1200	PTC50EHTE1AA000
6300	600	600	600	1200	1200	1200	PTC63EHTE1AA000

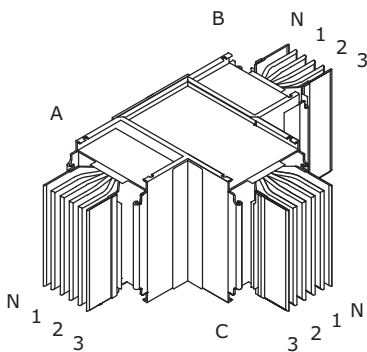
Coding

HTE1 – type 1, standard dimensions  
HTE2 – type 2, standard dimensions  
HTE5 – type 1, non-standard dimensions  
HTE6 – type 2, non-standard dimensions

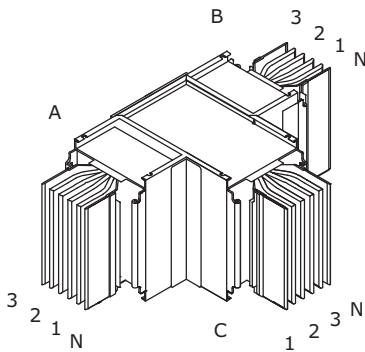
Designs

3P+N+PE (enclosure)	PTC08EHTE1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GHTE1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IHTE1AA000

Type 1

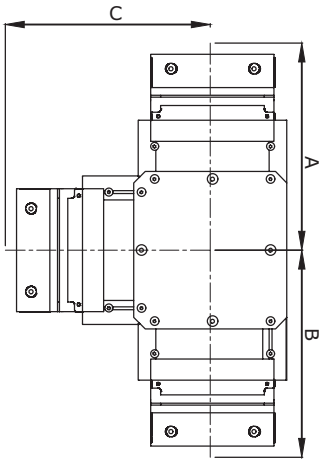


Type 2





Vertical Tee



- Purpose:**
- run bend in vertical plane.
- Characteristics:**
- the dimensions are selected from a set range;
  - lengths are specified to an axis of a monoblock.

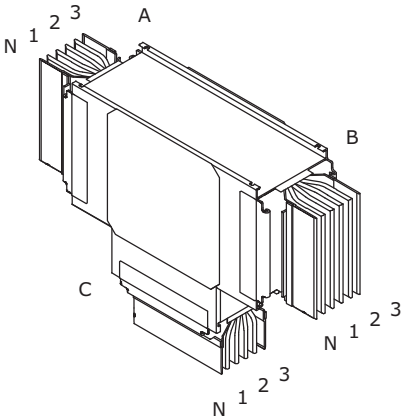
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	230	230	230	1200	1200	1200	PTC08 <b>EVTE1</b> AA000
1000	230	230	230	1200	1200	1200	PTC10 <b>EVTE1</b> AA000
1250	240	240	240	1200	1200	1200	PTC13 <b>EVTE1</b> AA000
1600	250	250	250	1200	1200	1200	PTC16 <b>EVTE1</b> AA000
2000	280	280	280	1200	1200	1200	PTC20 <b>EVTE1</b> AA000
2500	300	300	300	1200	1200	1200	PTC25 <b>EVTE1</b> AA000
3200	320	320	320	1200	1200	1200	PTC32 <b>EVTE1</b> AA000
4000	370	370	370	1200	1200	1200	PTC40 <b>EVTE1</b> AA000
5000	410	410	410	1200	1200	1200	PTC50 <b>EVTE1</b> AA000
6300	450	450	450	1200	1200	1200	PTC63 <b>EVTE1</b> AA000

Coding

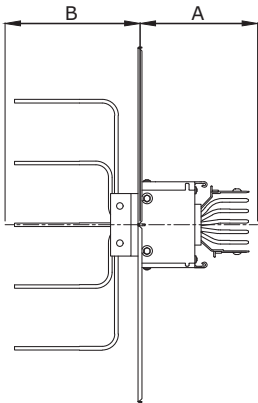
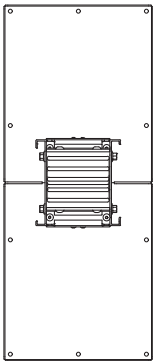
VTE1 means standard dimensions  
VTE5 means non-standard dimensions

Designs

3P+N+PE (enclosure)	PTC08 <b>EVTE1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTC08 <b>GVTE1</b> AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08 <b>IVTE1</b> AA000



Terminal switchboard/transformer



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- contact group is made of tinned aluminum;
  - lengths are specified to an axis of a monoblock.

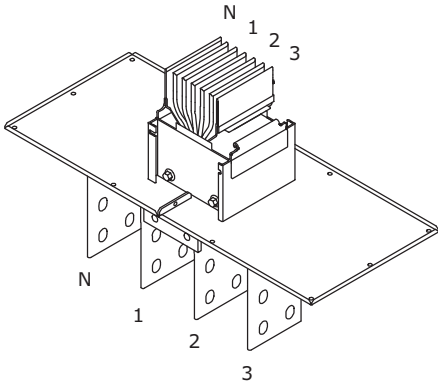
Rated current, A	A standard, mm	B standard, mm	X standard, mm	Y standard, mm	A maximum, mm	B maximum, mm	Code
800	200	200	100	50	1000	400	PTC08ETST1AA000
1000	200	200	100	50	1000	400	PTC10ETST1AA000
1250	200	200	100	50	1000	400	PTC13ETST1AA000
1600	200	200	100	50	1000	400	PTC16ETST1AA000
2000	200	200	100	50	1000	400	PTC20ETST1AA000
2500	200	200	100	50	1000	400	PTC25ETST1AA000
3200	200	200	100	50	1000	400	PTC32ETST1AA000
4000	200	200	100	50	1000	400	PTC40ETST1AA000
5000	200	200	100	50	1000	400	PTC50ETST1AA000
6300	200	200	100	50	1000	400	PTC63ETST1AA000

Coding

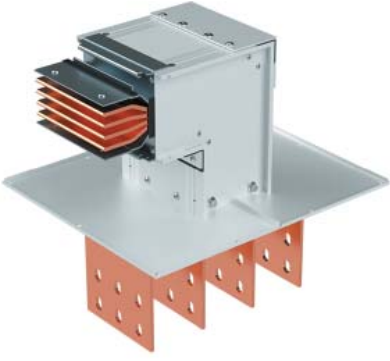
TST1 means standard dimensions  
TST2 means non-standard dimensions

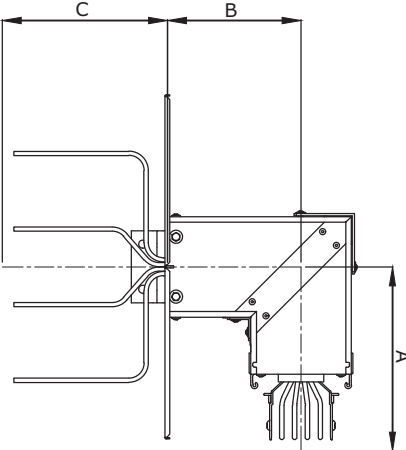
Designs

3P+N+PE (enclosure)	PTC08ETST1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GTST1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08ITST1AA000



Terminal switchboard/transformer with horizontal elbow





**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- contact group is made of tinned aluminum;
- lengths are specified to an axis of a monoblock.

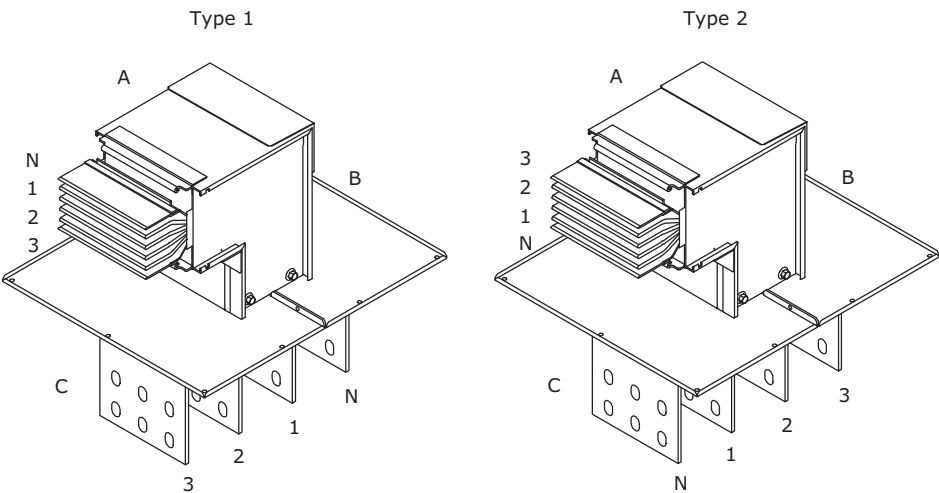
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	Code
800	250	180	200	1200	1000	PTC08EHET1AA000
1000	250	180	200	1200	1000	PTC10EHET1AA000
1250	250	180	200	1200	1000	PTC13EHET1AA000
1600	250	180	200	1200	1000	PTC16EHET1AA000
2000	250	180	200	1200	1000	PTC20EHET1AA000
2500	250	180	200	1200	1000	PTC25EHET1AA000
3200	250	180	200	1200	1000	PTC32EHET1AA000
4000	250	180	200	1200	1000	PTC40EHET1AA000
5000	250	180	200	1200	1000	PTC50EHET1AA000
6300	250	180	200	1200	1000	PTC63EHET1AA000

**Coding**

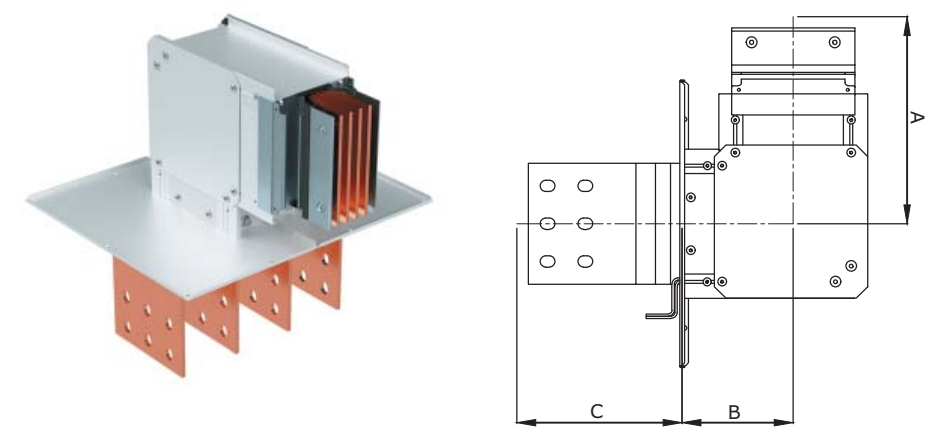
HET1 – type 1  
HET2 – type 2

Designs

3P+N+PE (enclosure)	PTC08EHET1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GHET1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IHET1AA000



Terminal switchboard/transformer with vertical elbow



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- lengths are specified to an axis of a monoblock.

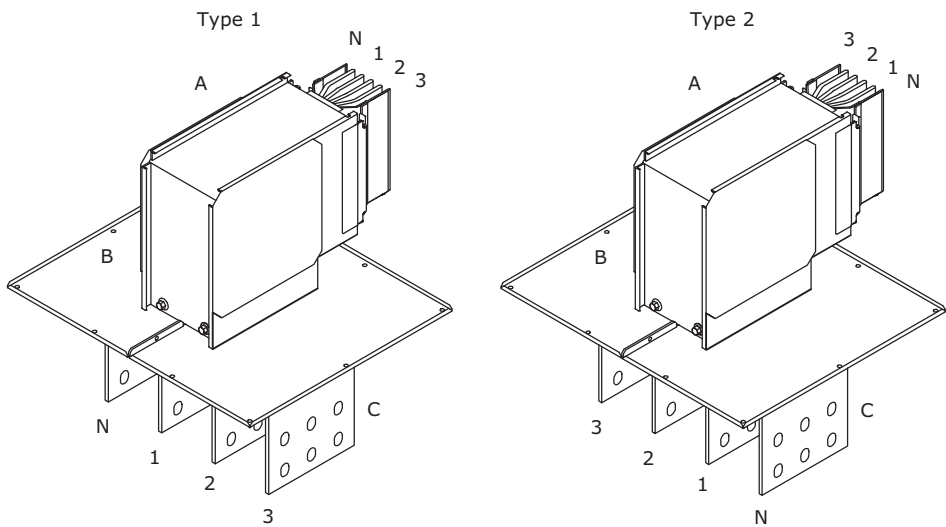
Rated current, A	A standard, mm	B standard, mm	C standard, mm	A maximum, mm	B maximum, mm	Code
800	230	100	200	1200	1000	PTC08EVET1AA000
1000	230	100	200	1200	1000	PTC10EVET1AA000
1250	240	110	200	1200	1000	PTC13EVET1AA000
1600	250	120	200	1200	1000	PTC16EVET1AA000
2000	280	150	200	1200	1000	PTC20EVET1AA000
2500	300	170	200	1200	1000	PTC25EVET1AA000
3200	320	190	200	1200	1000	PTC32EVET1AA000
4000	370	235	200	1200	1000	PTC40EVET1AA000
5000	410	275	200	1200	1000	PTC50EVET1AA000
6300	450	315	200	1200	1000	PTC63EVET1AA000

Coding

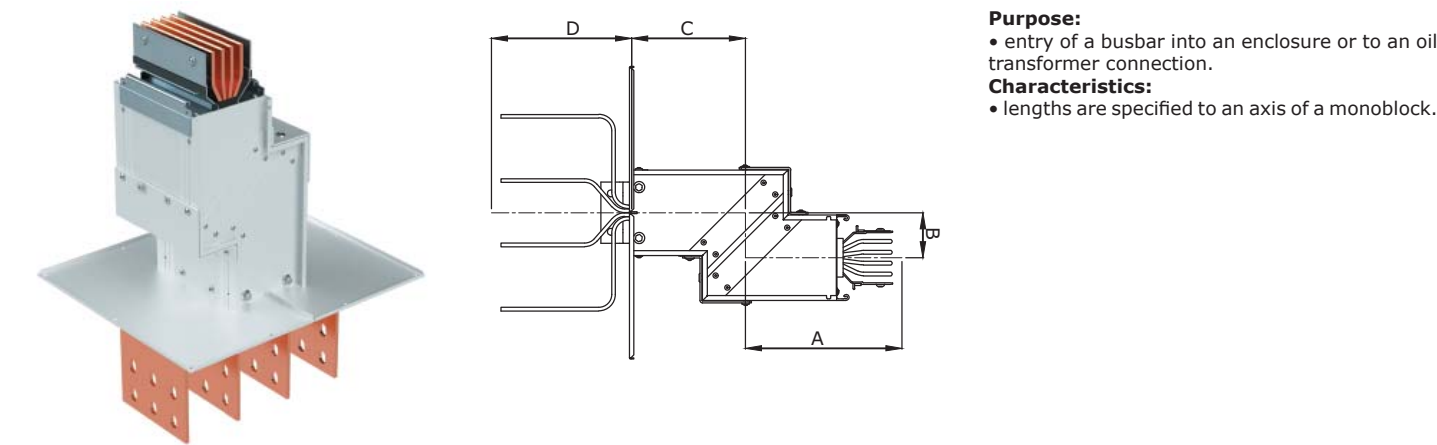
- VET1 – type 1  
VET2 – type 2

Designs

3P+N+PE (enclosure)	PTC08EVET1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GVET1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IVET1AA000



Terminal switchboard/transformer with double horizontal elbow



Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	250	70	180	1200	800	800	PTC08EDHT1AA000
1000	250	70	180	1200	800	800	PTC10EDHT1AA000
1250	250	70	180	1200	800	800	PTC13EDHT1AA000
1600	250	70	180	1200	800	800	PTC16EDHT1AA000
2000	250	70	180	1200	800	800	PTC20EDHT1AA000
2500	250	70	180	1200	800	800	PTC25EDHT1AA000
3200	250	70	180	1200	800	800	PTC32EDHT1AA000
4000	250	70	180	1200	800	800	PTC40EDHT1AA000
5000	250	70	180	1200	800	800	PTC50EDHT1AA000
6300	250	70	180	1200	800	800	PTC63EDHT1AA000

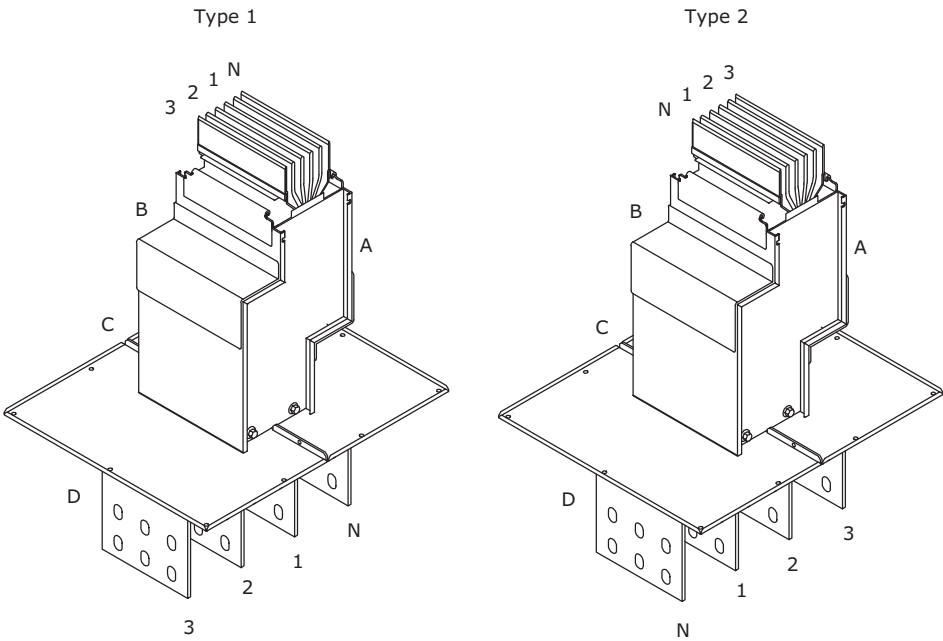
**Coding**

DHT1 – type 1

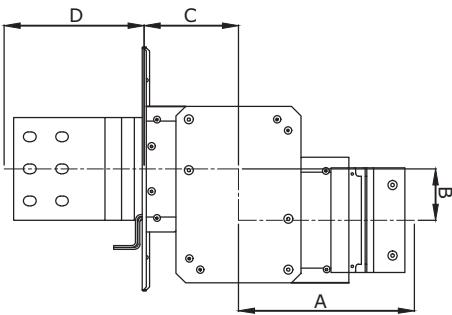
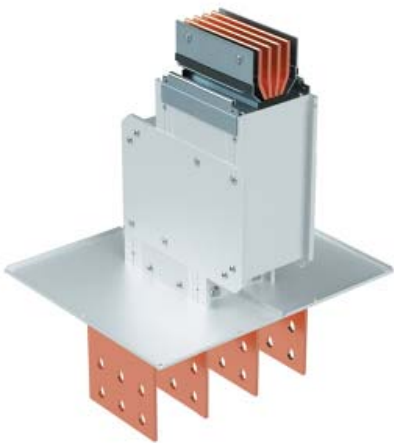
DHT2 – type 2

Designs

3P+N+PE (enclosure)	PTC08EDHT1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GDHT1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IDHT1AA000



Terminal switchboard/transformer with double vertical elbow



- Purpose:**
- entry of a busbar into an enclosure or to an oil transformer connection.
- Characteristics:**
- lengths are specified to an axis of a monoblock.

Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	230	80	100	1200	1200	900	PTC08EDVT1AA000
1000	230	80	100	1200	1200	900	PTC10EDVT1AA000
1250	240	80	110	1200	1200	900	PTC13EDVT1AA000
1600	250	80	120	1200	1200	900	PTC16EDVT1AA000
2000	280	80	150	1200	1200	900	PTC20EDVT1AA000
2500	300	80	170	1200	1200	900	PTC25EDVT1AA000
3200	320	80	190	1200	1200	900	PTC32EDVT1AA000
4000	370	80	235	1200	1200	900	PTC40EDVT1AA000
5000	410	80	275	1200	1200	900	PTC50EDVT1AA000
6300	450	80	315	1200	1200	900	PTC63EDVT1AA000

Coding

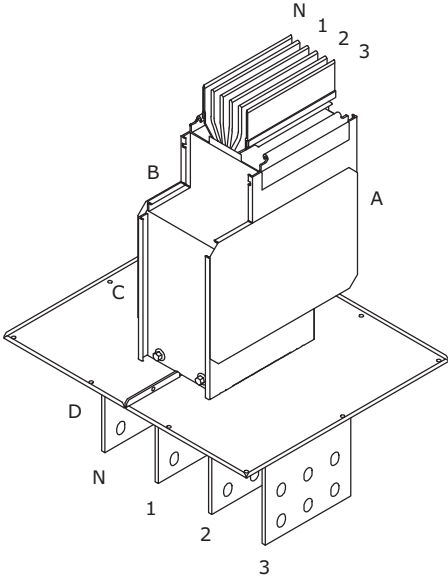
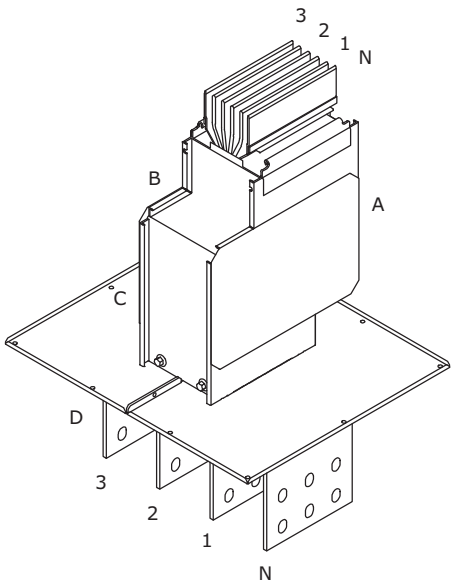
- DVT1 – type 1  
DVT2 – type 2

Designs

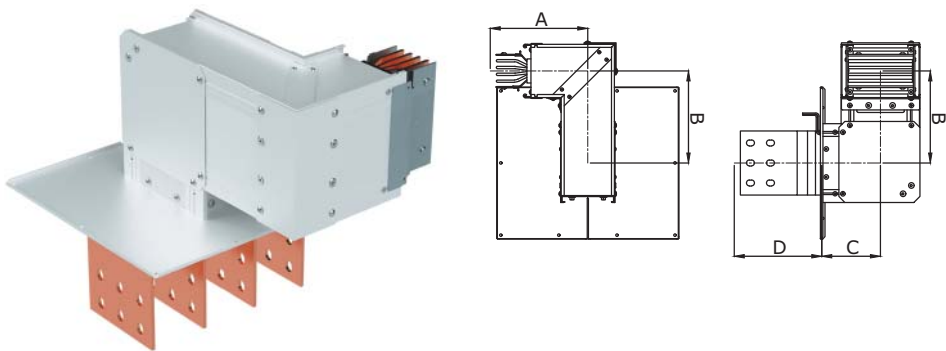
3P+N+PE (enclosure)	PTC08EDVT1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GDVT1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IDVT1AA000

Type 1

Type 2



Terminal switchboard/transformer with vertical and horizontal elbows



**Purpose:**

- entry of a busbar into an enclosure or to an oil transformer connection.

**Characteristics:**

- lengths are specified to an axis of a monoblock.

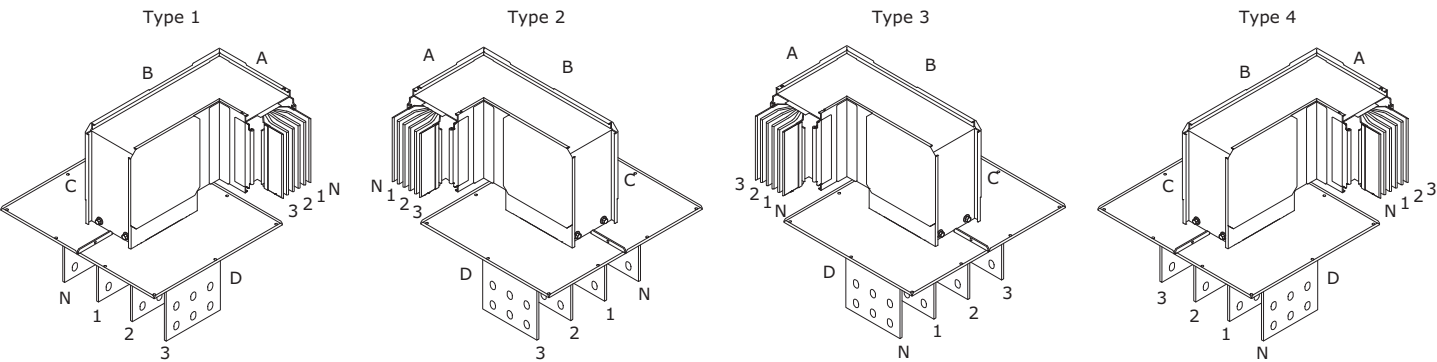
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	250	180	100	1000	1200	900	PTC08EHVT1AA000
1000	250	180	100	1000	1200	900	PTC10EHVT1AA000
1250	250	190	110	1000	1200	900	PTC13EHVT1AA000
1600	250	200	120	1000	1200	900	PTC16EHVT1AA000
2000	250	230	150	1000	1200	900	PTC20EHVT1AA000
2500	250	250	170	1000	1200	900	PTC25EHVT1AA000
3200	250	270	190	1000	1200	900	PTC32EHVT1AA000
4000	250	315	235	1000	1200	900	PTC40EHVT1AA000
5000	250	355	275	1000	1200	900	PTC50EHVT1AA000
6300	250	395	315	1000	1200	900	PTC63EHVT1AA000

Coding

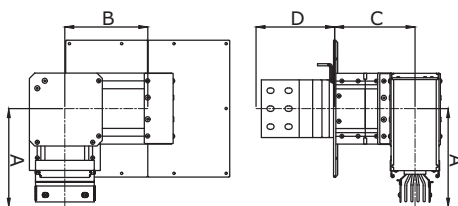
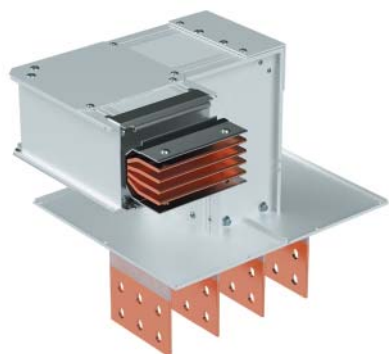
- HVT1 – type 1
- HVT2 – type 2
- HVT3 – type 3
- HVT4 – type 4

Designs

3P+N+PE (enclosure)	PTC08EHVT1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GHVT1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IHVT1AA000



## Terminal switchboard/transformer with horizontal and vertical angles



### Purpose:

- entry of a busbar into an enclosure or to an oil transformer connection.

### Characteristics:

- lengths are specified to an axis of a monoblock.

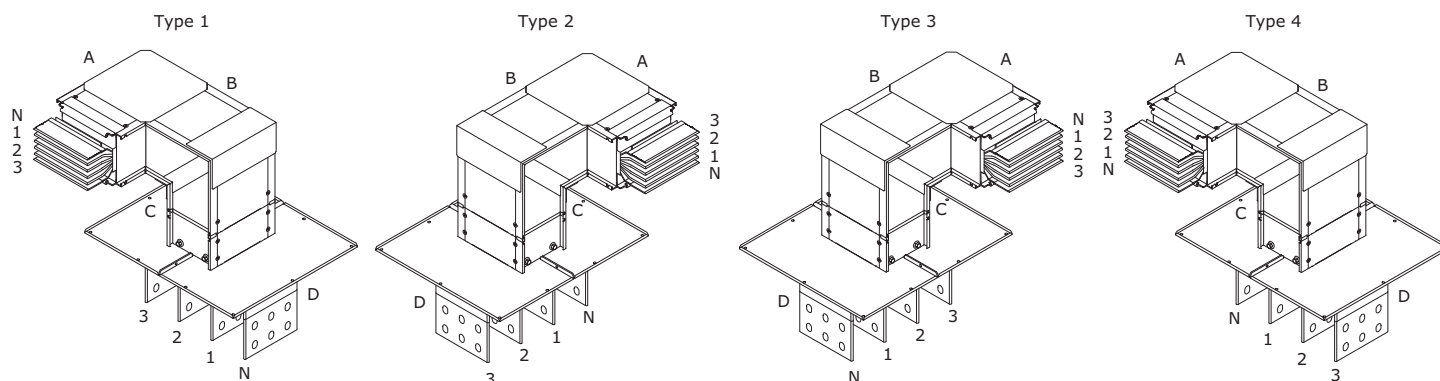
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	A maximum, mm	B maximum, mm	C maximum, mm	Code
800	230	180	180	1200	1200	800	PTC08EVHT1AA000
1000	230	180	180	1200	1200	800	PTC10EVHT1AA000
1250	240	190	180	1200	1200	800	PTC13EVHT1AA000
1600	250	200	180	1200	1200	800	PTC16EVHT1AA000
2000	280	230	180	1200	1200	800	PTC20EVHT1AA000
2500	300	250	180	1200	1200	800	PTC25EVHT1AA000
3200	320	270	180	1200	1200	800	PTC32EVHT1AA000
4000	370	315	180	1200	1200	800	PTC40EVHT1AA000
5000	410	355	180	1200	1200	800	PTC50EVHT1AA000
6300	450	395	180	1200	1200	800	PTC63EVHT1AA000

### Coding

VHT1 – type 1  
VHT2 – type 2  
VHT3 – type 3  
VHT4 – type 4

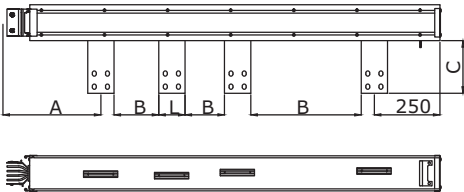
### Designs

3P+N+PE (enclosure)	PTC08EVHT1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GVHT1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IVHT1AA000





Terminal parallel phases



**Purpose:**

- connection of a busbar to cast resin transformer.

**Characteristics:**

- phase spacing is made for specific connection dimensions of transformer;
- phase sequence is selected for specific transformer;
- 4000–6300 A ratings have two parallel connecting contacts.

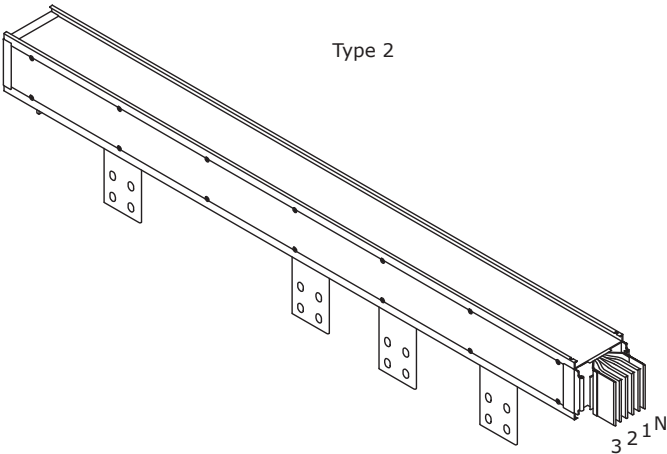
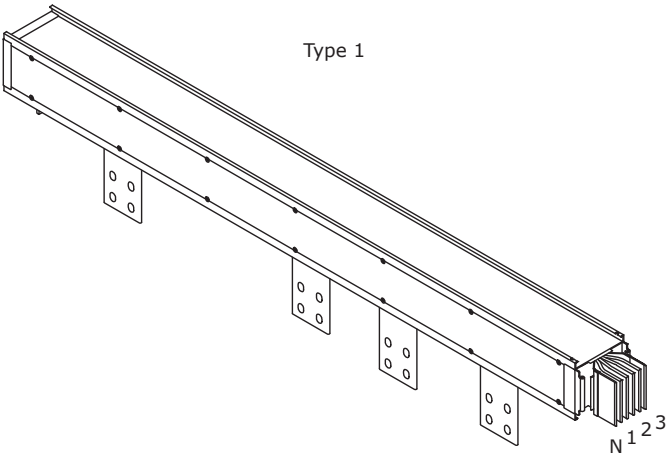
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	C maximum, mm	Code
800	450	40	150	60	1200	300	PTC08E <b>TPP1</b> AA000
1000	450	40	150	60	1200	300	PTC10E <b>TPP1</b> AA000
1250	450	40	150	80	1200	300	PTC13E <b>TPP1</b> AA000
1600	450	40	150	100	1200	300	PTC16E <b>TPP1</b> AA000
2000	450	40	150	160	1200	300	PTC20E <b>TPP1</b> AA000
2500	450	40	150	200	1200	300	PTC25E <b>TPP1</b> AA000
3200	450	40	150	240	1200	300	PTC32E <b>TPP1</b> AA000
4000	450	40	150	160	1200	300	PTC40E <b>TPP1</b> AA000
5000	450	40	150	200	1200	300	PTC50E <b>TPP1</b> AA000
6300	450	40	150	240	1200	300	PTC63E <b>TPP1</b> AA000

Coding

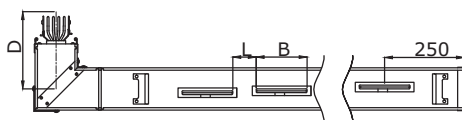
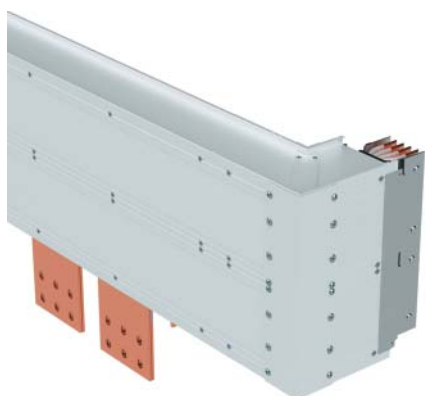
TPP1 – type 1  
TPP2 – type 2

Designs

3P+N+PE (enclosure)	PTC08E <b>TPP1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTC08 <b>G</b> TPP1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08 <b>I</b> TPP1AA000



## Terminal parallel phases with horizontal elbow



### Purpose:

- connection of a busbar to cast resin transformer.

### Characteristics:

- phase spacing is made for specific connection dimensions of transformer;
- phase sequence is selected for specific transformer;
- 4000–6300 A ratings have two parallel connecting contacts.

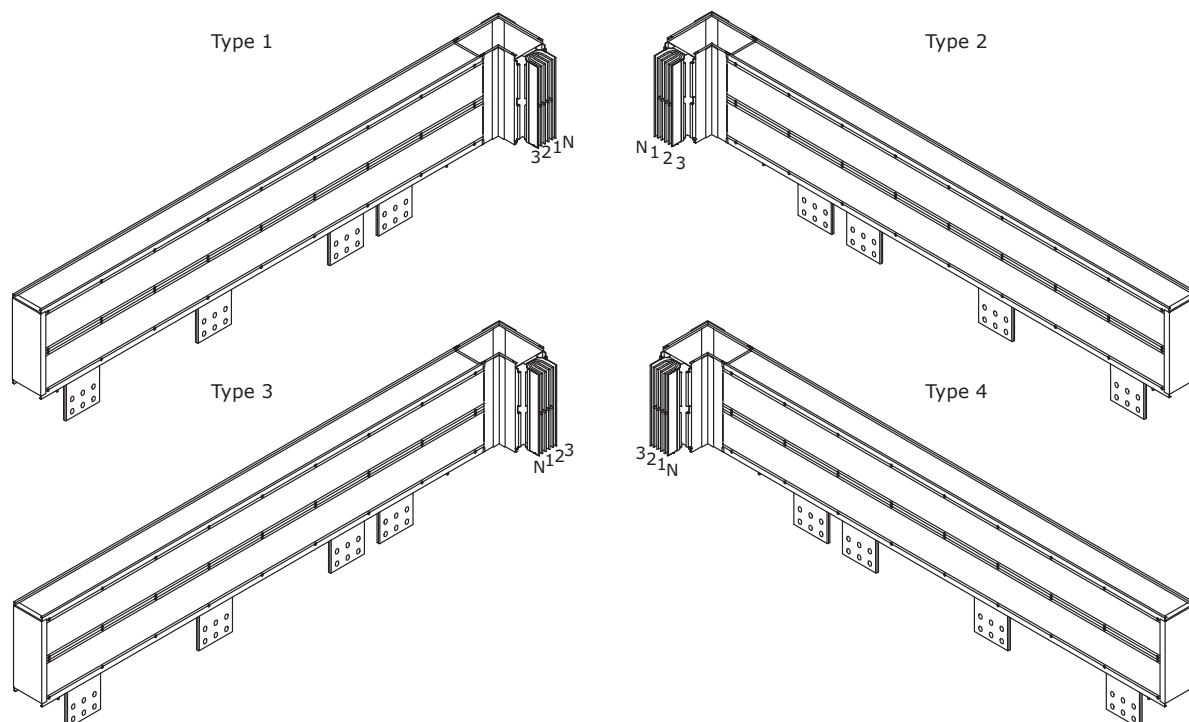
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	D standard, mm	D maximum, mm	Code
800	450	40	150	60	1200	300	1200	PTC08EHTP1AA000
1000	450	40	150	60	1200	300	1200	PTC10EHTP1AA000
1250	450	40	150	80	1200	300	1200	PTC13EHTP1AA000
1600	450	40	150	100	1200	300	1200	PTC16EHTP1AA000
2000	450	40	150	160	1200	300	1200	PTC20EHTP1AA000
2500	450	40	150	200	1200	300	1200	PTC25EHTP1AA000
3200	450	40	150	240	1200	300	1200	PTC32EHTP1AA000
4000	450	40	150	160	1200	300	1200	PTC40EHTP1AA000
5000	450	40	150	200	1200	300	1200	PTC50EHTP1AA000
6300	450	40	150	240	1200	300	1200	PTC63EHTP1AA000

### Coding

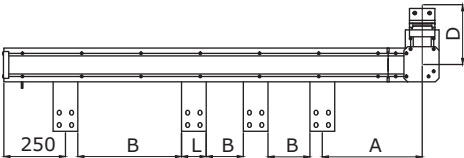
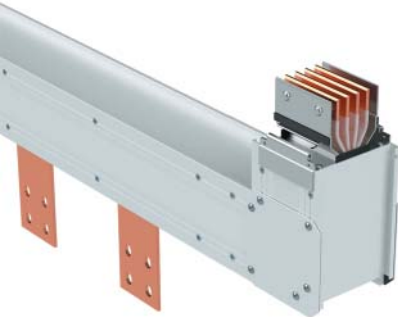
HTP1 – type 1  
HTP2 – type 2  
HTP3 – type 3  
HTP4 – type 4

### Designs

3P+N+PE (enclosure)	PTC08EHTP1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GHTP1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IHTP1AA000



Terminal parallel phases with vertical elbow



**Purpose:**

- connection of a busbar to cast resin transformer.

**Characteristics:**

- phase spacing is made for specific connection dimensions of transformer;
- phase sequence is selected for specific transformer;
- 4000–6300 A ratings have two parallel connecting contacts.

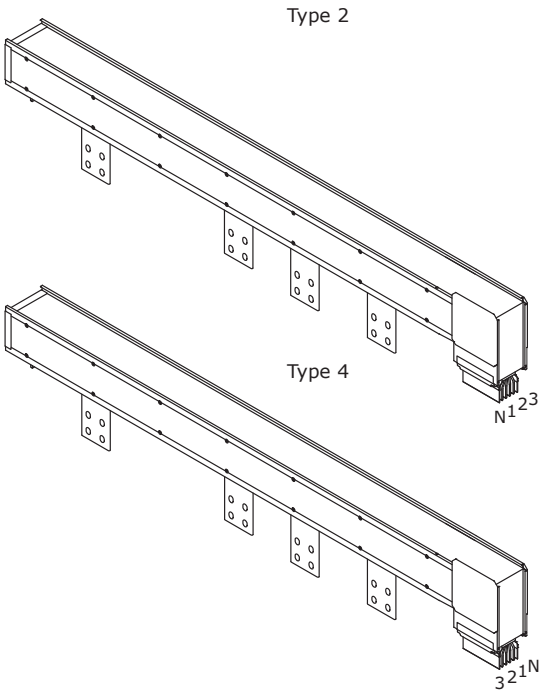
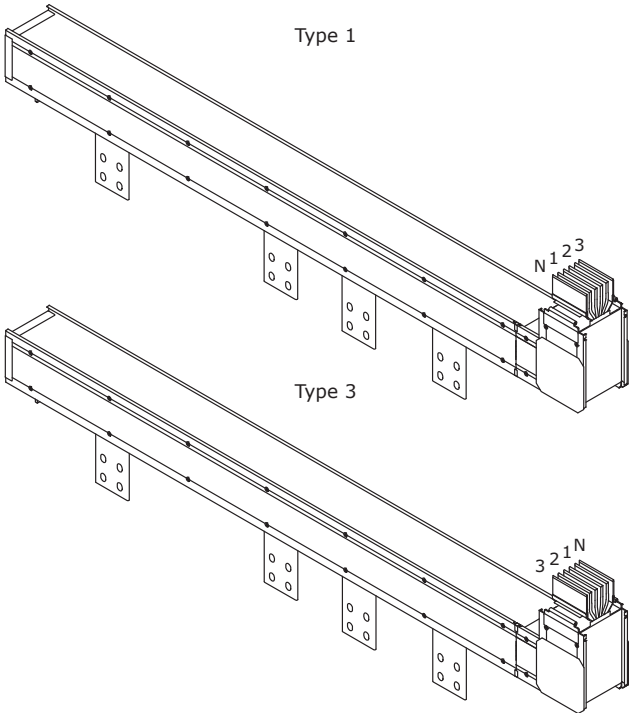
Rated current, A	A minimum, mm	B minimum, mm	C minimum, mm	L standard, mm	A maximum, mm	D standard, mm	D maximum, mm	Code
800	450	40	150	60	1200	230	1200	PTC08EVTP1AA000
1000	450	40	150	60	1200	230	1200	PTC10EVTP1AA000
1250	450	40	150	80	1200	240	1200	PTC13EVTP1AA000
1600	450	40	150	100	1200	250	1200	PTC16EVTP1AA000
2000	450	40	150	160	1200	280	1200	PTC20EVTP1AA000
2500	450	40	150	200	1200	300	1200	PTC25EVTP1AA000
3200	450	40	150	240	1200	320	1200	PTC32EVTP1AA000
4000	450	40	150	160	1200	370	1200	PTC40EVTP1AA000
5000	450	40	150	200	1200	410	1200	PTC50EVTP1AA000
6300	450	40	150	240	1200	450	1200	PTC63EVTP1AA000

**Coding**

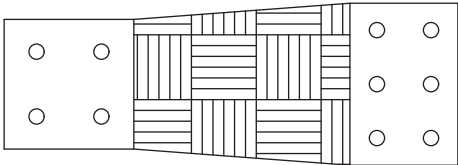
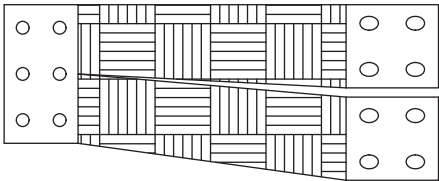
VTP1 – type 1  
VTP2 – type 2  
VTP3 – type 3  
VTP4 – type 4

Designs

3P+N+PE (enclosure)	PTC08EVTP1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GVTP1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IVTP1AA000



Flexible joint



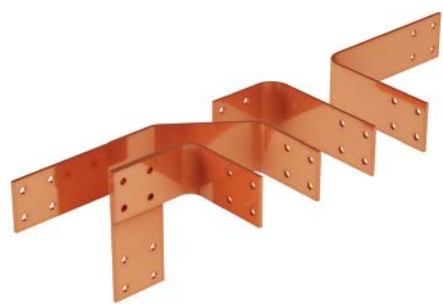
- Purpose:**
- connection of a busbar to transformer.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
800	PTC08EFLXJAA000
1000	PTC10EFLXJAA000
1250	PTC13EFLXJAA000
1600	PTC16EFLXJAA000
2000	PTC20EFLXJAA000
2500	PTC25EFLXJAA000
3200	PTC32EFLXJAA000
4000	PTC40EFLXJAA000
5000	PTC50EFLXJAA000
6300	PTC63EFLXJAA000

Designs

3P+N+PE (enclosure)	PTC08EFLXJAA000
3P+N+FE (bus)+PE (enclosure)	PTC08GFLXJAA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IFLXJAA000

Cast resin transformer connection



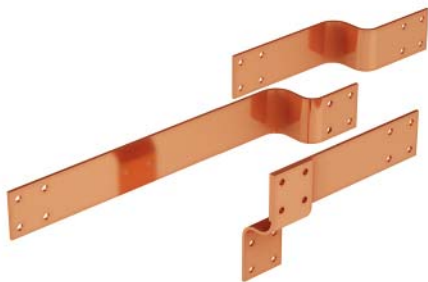
- Purpose:**
- connection of a busbar to cast resin transformer.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
800	PTC08ETRRCAA000
1000	PTC10ETRRCAA000
1250	PTC13ETRRCAA000
1600	PTC16ETRRCAA000
2000	PTC20ETRRCAA000
2500	PTC25ETRRCAA000
3200	PTC32ETRRCAA000
4000	PTC40ETRRCAA000
5000	PTC50ETRRCAA000
6300	PTC63ETRRCAA000

Designs

3P+N+PE (enclosure)	PTC08ETRRCAA000
3P+N+FE (bus)+PE (enclosure)	PTC08GTRRCAA000

## Oil transformer connection



### Purpose:

- connection of a busbar to oil transformer.

### Characteristics:

- made for specific dimensions of transformer contact group;
- kit may include from 4 to 16 buses.

Rated current, A	Code
800	PTC08ETROCAA000
1000	PTC10ETROCAA000
1250	PTC13ETROCAA000
1600	PTC16ETROCAA000
2000	PTC20ETROCAA000
2500	PTC25ETROCAA000
3200	PTC32ETROCAA000
4000	PTC40ETROCAA000
5000	PTC50ETROCAA000
6300	PTC63ETROCAA000

### Designs

3P+N+PE (enclosure)	PTC08ETROCAA000
3P+N+FE (bus)+PE (enclosure)	PTC08GTROCAA000

Extension bars "I"



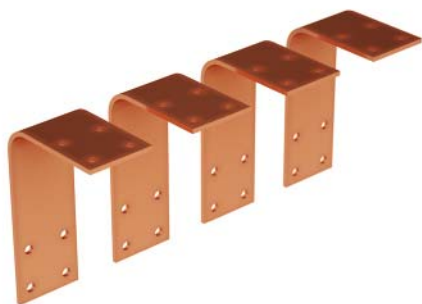
- Purpose:**
- outlet of transformer contact group in a vertical plane.
- Characteristics:**
- made for specific dimensions of transformer contact group;
  - kit may include from 4 to 16 buses.

Rated current, A	Code
800	PTC08EEXTIAA000
1000	PTC10EEXTIAA000
1250	PTC13EEXTIAA000
1600	PTC16EEXTIAA000
2000	PTC20EEXTIAA000
2500	PTC25EEXTIAA000
3200	PTC32EEXTIAA000
4000	PTC40EEXTIAA000
5000	PTC50EEXTIAA000
6300	PTC63EEXTIAA000

Designs

3P+N+PE (enclosure)	PTC08EEXTIAA000
3P+N+FE (bus)+PE (enclosure)	PTC08GEXTIAA000

## Extension bars "L"



### Purpose:

- outlet of transformer contact group in a horizontal plane.

### Characteristics:

- made for specific dimensions of transformer contact group;
- kit may include from 4 to 16 buses.

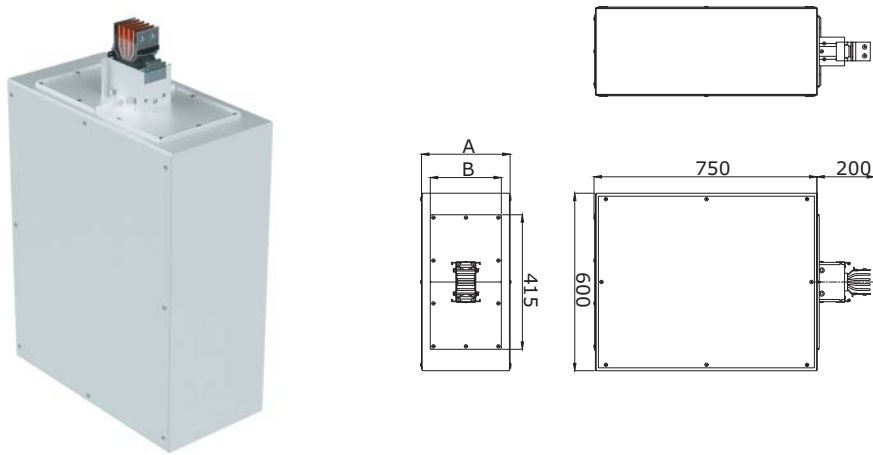
Rated current, A	Code
800	PTC08EEXTLAA000
1000	PTC10EEXTLAA000
1250	PTC13EEXTLAA000
1600	PTC16EEXTLAA000
2000	PTC20EEXTLAA000
2500	PTC25EEXTLAA000
3200	PTC32EEXTLAA000
4000	PTC40EEXTLAA000
5000	PTC50EEXTLAA000
6300	PTC63EEXTLAA000

### Designs

3P+N+PE (enclosure)	PTC08EEXTLAA000
3P+N+FE (bus)+PE (enclosure)	PTC08GEXTLAA000



Feeder



- Purpose:**
- connection of a busbar to a cable line.
- Characteristics:**
- removable side and bottom wall.

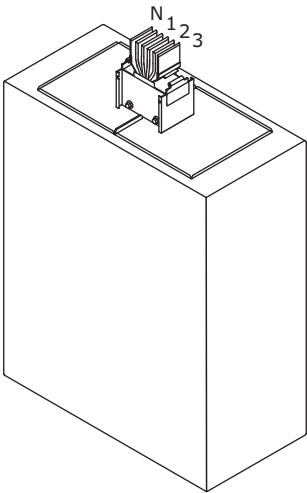
Rated current, A	A standard, mm	B standard, mm	C standard, mm	D standard, mm	Code
800	300	200	415	200	PTC08EFED1AA000
1000	300	200	415	200	PTC10EFED1AA000
1250	300	200	415	200	PTC13EFED1AA000
1600	300	200	415	200	PTC16EFED1AA000
2000	450	340	415	200	PTC20EFED1AA000
2500	450	340	415	200	PTC25EFED1AA000
3200	450	340	415	200	PTC32EFED1AA000
4000	700	585	415	200	PTC40EFED1AA000
5000	700	585	415	200	PTC50EFED1AA000
6300	700	585	415	200	PTC63EFED1AA000

**Coding**

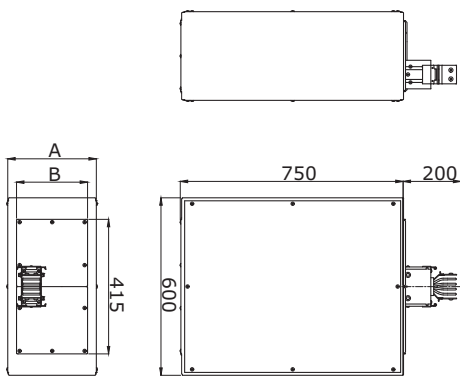
FED1 means standard dimensions  
FED2 means non-standard dimensions

Designs

3P+N+PE (enclosure)	PTC08EFED1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GFED1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IFED1A000



Feeder for vertical sections



- Purpose:**
- connection of a busbar with vertical configuration to a cable line.
- Characteristics:**
- removable side and bottom wall.

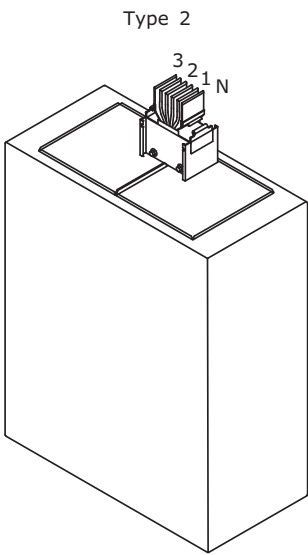
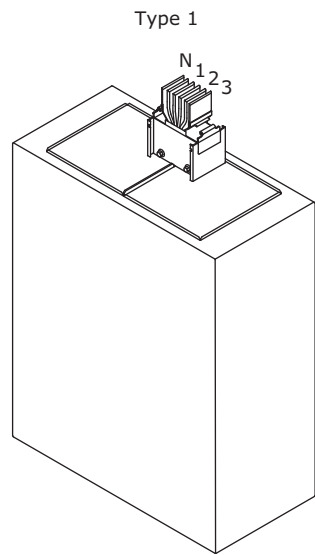
Rated current, A	A standard, mm	B standard, mm	C standard, mm	D standard, mm	E standard, mm	Code
800	300	200	415	200	100	PTC08EFVR1AA000
1000	300	200	415	200	100	PTC10EFVR1AA000
1250	300	200	415	200	100	PTC13EFVR1AA000
1600	300	200	415	200	100	PTC16EFVR1AA000
2000	450	340	415	200	100	PTC20EFVR1AA000
2500	450	340	415	200	100	PTC25EFVR1AA000
3200	450	340	415	200	100	PTC32EFVR1AA000
4000	700	585	415	200	100	PTC40EFVR1AA000
5000	700	585	415	200	100	PTC50EFVR1AA000
6300	700	585	415	200	100	PTC63EFVR1AA000

Coding

- FVR1 – type 1, standard dimensions  
FVR2 – type 2, standard dimensions  
FVR3 – type 1, non-standard dimensions  
FVR4 – type 2, non-standard dimensions

Designs

3P+N+PE (enclosure)	PTC08EFVR1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GFVR1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08IFVR1A000



## Straight element with phases transposition



### Purpose:

- phase sequence change.

Rated current, A	Code
800	PTC08 <b>ESPT1</b> AA000
1000	PTC10 <b>ESPT1</b> AA000
1250	PTC13 <b>ESPT1</b> AA000
1600	PTC16 <b>ESPT1</b> AA000
2000	PTC20 <b>ESPT1</b> AA000
2500	PTC25 <b>ESPT1</b> AA000
3200	PTC32 <b>ESPT1</b> AA000
4000	PTC40 <b>ESPT1</b> AA000
5000	PTC50 <b>ESPT1</b> AA000
6300	PTC63 <b>ESPT1</b> AA000

### Coding

SPT1 – type 1, standard dimensions  
 SPT2 – type 2, standard dimensions  
 SPT3 – type 3, non-standard dimensions  
 SPTS – special

### Designs

3P+N+PE (enclosure)	PTC08 <b>ESPT1</b> AA000
3P+N+FE (bus)+PE (enclosure)	PTC08 <b>GSPT1</b> AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTC08 <b>ISPT1</b> A000

## Reducing section



### Purpose:

- transfer from one busbar rating to another.

### Characteristics:

- lengths are specified between axes of monoblocks.

Rated current, A	Code
800	PTC08ERRE1AA000
1000	PTC10ERRE1AA000
1250	PTC13ERRE1AA000
1600	PTC16ERRE1AA000
2000	PTC20ERRE1AA000
2500	PTC25ERRE1AA000
3200	PTC32ERRE1AA000
4000	PTC40ERRE1AA000
5000	PTC50ERRE1AA000
6300	PTC63ERRE1AA000

### Coding

RRE1 – type 1

RRE2 – type 2

### Designs

3P+N+PE (enclosure)	PTC08ERRE1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GRRE1AA000

## Protection box



### Purpose:

- protection of busbar connection point to switchboard/oil transformer.

Rated current, A	Code
800	PTC08EPRB1AA000
1000	PTC10EPRB1AA000
1250	PTC13EPRB1AA000
1600	PTC16EPRB1AA000
2000	PTC20EPRB1AA000
2500	PTC25EPRB1AA000
3200	PTC32EPRB1AA000
4000	PTC40EPRB1AA000
5000	PTC50EPRB1AA000
6300	PTC63EPRB1AA000

### Coding

PRB1 – type 1  
PRB2 – type 2

### Designs

3P+N+PE (enclosure)	PTC08EPRB1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GPRB1AA000

## Section isolator



### Purpose:

- designed for switching of an electric circuit that has a clearance when switched off for provision of safety.

### Characteristics:

- lengths are specified between axes of monoblocks.

Rated current, A	Code
800	PTC08ERRE1AA000
1000	PTC10ERRE1AA000
1250	PTC13ERRE1AA000
1600	PTC16ERRE1AA000
2000	PTC20ERRE1AA000
2500	PTC25ERRE1AA000
3200	PTC32ERRE1AA000
4000	PTC40ERRE1AA000
5000	PTC50ERRE1AA000
6300	PTC63ERRE1AA000

### Coding

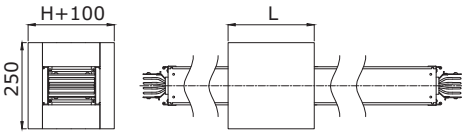
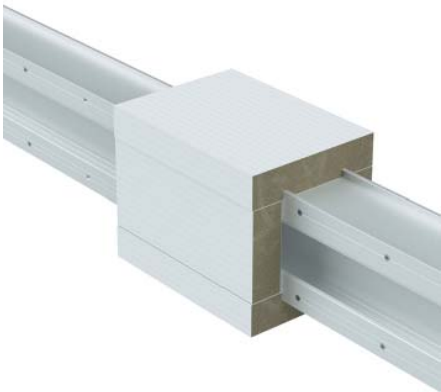
SIS1 – type 1

SIS2 – type 2

### Designs

3P+N+PE (enclosure)	PTC08ESIS1AA000
3P+N+FE (bus)+PE (enclosure)	PTC08GSIS1AA000

Fire barrier



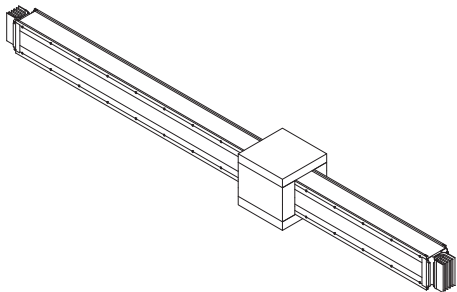
**Purpose:**

- busbar barrier through partition walls and walls with specified fire resistance.

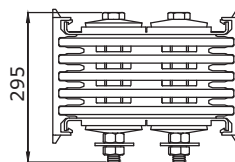
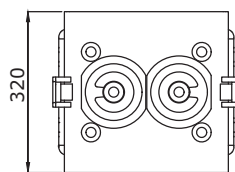
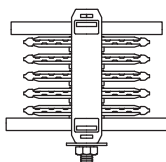
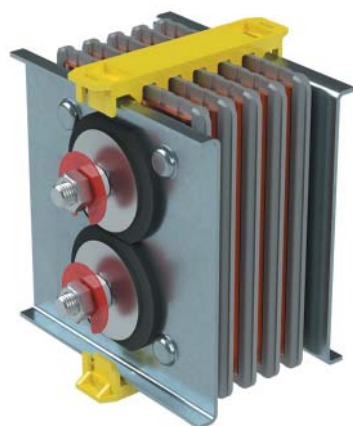
**Characteristics:**

- assembled from the materials of "Vulcan" fire-resistant penetrations group according to the instructions.

Rated current, A	120 minutes (depth of 500 mm)			180 minutes (depth of 1000 mm)		
	DP1201	DT1201	DS1201	DP1201	DT1201	DS1201
800	1 pce	1 m	2 kg	2 pcs	2 m	3 kg
1000	1 pce	1 m	2 kg	2 pcs	2 m	3 kg
1250	1 pce	2 m	2 kg	2 pcs	3 m	3 kg
1600	1 pce	2 m	2 kg	2 pcs	4 m	3 kg
2000	1 pce	3 m	3 kg	2 pcs	5 m	4 kg
2500	1 pce	4 m	3 kg	2 pcs	7 m	4 kg
3200	1 pce	4 m	3 kg	2 pcs	8 m	4 kg
4000	2 pcs	5 m	3 kg	3 pcs	10 m	5 kg
5000	2 pcs	7 m	3 kg	3 pcs	14 m	5 kg
6300	2 pcs	8 m	3 kg	3 pcs	16 m	5 kg



## Monoblock



### Purpose:

- interconnection of busbar sections;
- compensation for thermal expansion of buses.

### Characteristics:

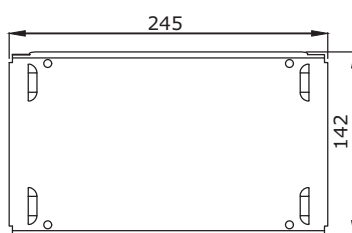
- additional grooves for heat extraction in insulating dividers;
- nut with a detachable head for ease of installation.

Rated current, A	Code
800	PTN91EMON1AA000
1000	PTN91EMON1AA000
1250	PTN92EMON1AA000
1600	PTN93EMON1AA000
2000	PTN94EMON1AA000
2500	PTN95EMON1AA000
3200	PTN96EMON1AA000
4000	PTN97EMON1AA000
5000	PTN98EMON1AA000
6300	PTN99EMON1AA000

## Designs

3P+N+PE (enclosure)	PTN91EMON1AA000
3P+N+FE (bus) + PE (enclosure)	PTN91GMON1AA000
3P+N+FE/2 (bus)+PE (enclosure)	PTN91IMON1AA000
3P+FE (bus) + PE (enclosure)	PTN91DMON1AA000
3P+2N+PE (enclosure)	PTN91HMON1AA000

## Joint cover



### Purpose:

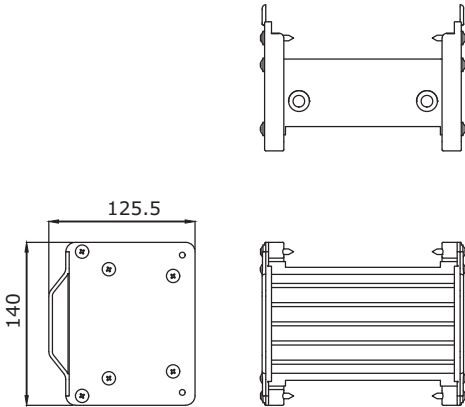
- interconnection of busbar sections.



Rated current, A	3P+N+PE (enclosure)	3P+N+FE (bus)+PE (enclosure)	3P+N+FE/2 (bus)+PE (enclosure)
800–6300	PTN90TJCO1AA000	PTN90UJCO1AA000	PTN90UJCO1AA000



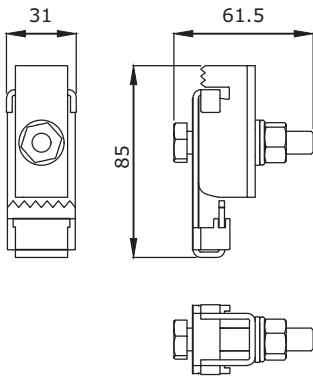
End cover



**Purpose:**  
• cover for the ending of a busbar run.

Rated current, A	Code
800	PTN91TECO1AA000
1000	PTN91TECO1AA000
1250	PTN92TECO1AA000
1600	PTN93TECO1AA000
2000	PTN94TECO1AA000
2500	PTN95TECO1AA000
3200	PTN96TECO1AA000
4000	PTN97TECO1AA000
5000	PTN98TECO1AA000
6300	PTN99TECO1AA000

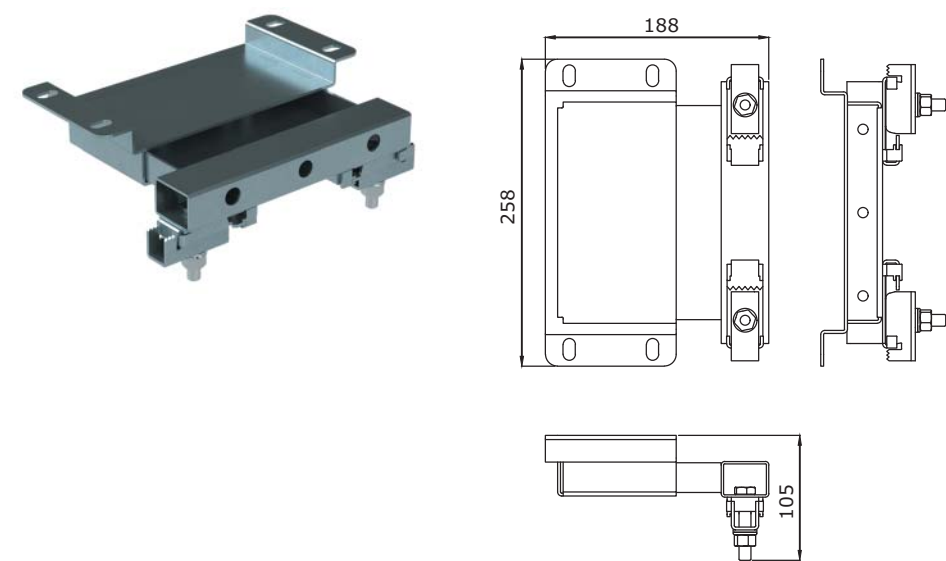
Busbar fixing brackets



**Purpose:**  
• attachment of busbar runs.

Rated current, A	Universal fixing bracket
3P+N+PE (enclosure)	PTN90ZFIUSAA000
3P+N+FE (bus)+PE (enclosure)	PTN90ZFIUSAA000

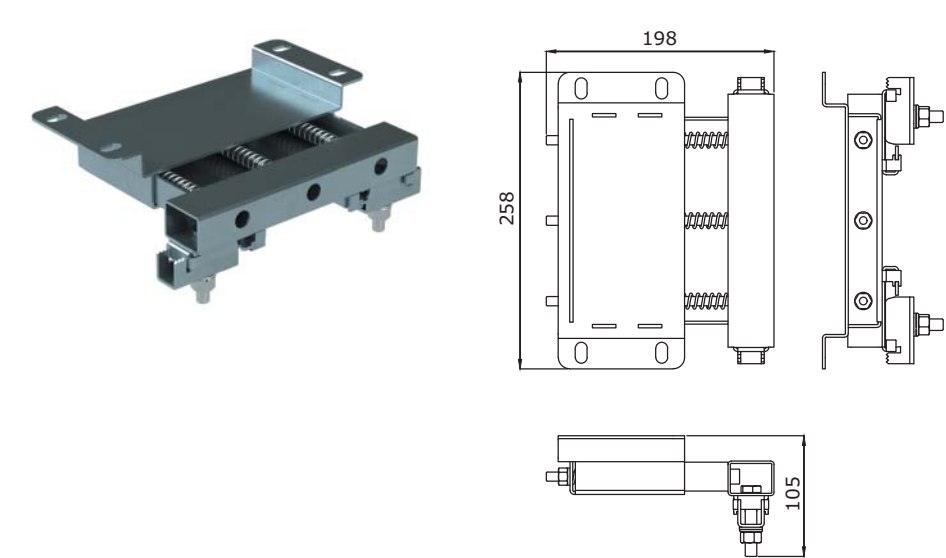
Busbar fixing bracket alignment for vertical runs



**Purpose:**  
• busbar attachment at vertical portions.

Design	Fastener for vertical runs
3P+N+PE (enclosure)	PTN90ZFVA1AA000
3P+N+FE (bus)+PE (enclosure)	PTN90ZFVA1AA000

Busbar fixing bracket with springs for vertical runs



**Purpose:**  
• busbar attachment at vertical portions.

Design	Fastener for vertical runs
3P+N+PE (enclosure)	PTN90ZFVS1AA000
3P+N+FE (bus)+PE (enclosure)	PTN90ZFVS1AA000

## Empty tap-off box



### Purpose:

- connection of consumers to plug-in points of a busbar.

### Characteristics:

- the box is completed with a mounting plate.

Rated current, A	A, mm	B, mm	C, mm	Code
32	400	280	170	PTN90ETCE1AA000
63-160	500	320	210	PTN90ETCE2AA000
250	600	400	250	PTN90ETCE3AA000
315-630	700	500	300	PTN90ETCE4AA000

### Designs

3P+N+PE (along the busbar enclosure)	PTN90 <b>E</b> TCE2AA000
3P+NP+PE (along the busbar enclosure)	PTN90 <b>O</b> TCE2AA000
3P+N+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>G</b> TCE2AA000
3P+NP+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>V</b> TCE2AA000

## Tap-off box prefitted for MCB



### Purpose:

- connection of consumers to plug-in points of a busbar.

### Characteristics:

- prepared for installation of protective devices on a DIN-rail.

Rated current, A	Number of modules	A, mm	B, mm	C, mm	Code
63-160	4	400	320	210	PTN90ETCM1AA000
63-160	8	500	320	210	PTN90ETCM2AA000
250	12	600	400	250	PTN90ETCM3AA000

### Designs

3P+N+PE (along the busbar enclosure)	PTN90 <b>E</b> TCM1AA000
3P+NP+PE (along the busbar enclosure)	PTN90 <b>O</b> TCM1AA000
3P+N+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>G</b> TCM1AA000
3P+NP+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>V</b> TCM1AA000

## Tap-off box for installation of fuse links


**Purpose:**

- connection of consumers to plug-in points of a busbar.

**Characteristics:**

- prepared for installation of fuse links of series NH;
- fuse links are not included into the scope of supply.

Rated current, A	A, mm	B, mm	C, mm	Standard size of fuse link	Code
32	500	320	210	NH00	PTN90ETCF1AA000
63	500	320	210	NH00	PTN90ETCF2AA000
125	600	400	250	NH00	PTN90ETCF3AA000
160	600	400	250	NH00	PTN90ETCF4AA000
250	700	500	300	NH1	PTN90ETCF5AA000

**Designs**

3P+N+PE (along the busbar enclosure)	PTN90 <b>E</b> TCF2AA000
3P+NP+PE (along the busbar enclosure)	PTN90 <b>O</b> TCF2AA000
3P+N+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>G</b> TCF2AA000
3P+NP+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>V</b> TCF2AA000

## Tap-off box with an isolator and fuse link holder


**Purpose:**

- connection of consumers to plug-in points of a busbar.

**Characteristics:**

- there is an isolator located in the box with the possibility to perform control using an external handle, and a holder for installation of fuse links;
- fuse links are not included into the scope of supply.

Rated current, A	A, mm	B, mm	C, mm	Standard size of fuse link	Isolator	Code
32	400	280	170	NH00	IHF 63	PTN90ETCD1AA000
63	500	320	210	NH00	IHF 80	PTN90ETCD2AA000
125	500	320	210	NH00	INF 160	PTN90ETCD3AA000
160	500	320	210	NH00	INF 200	PTN90ETCD4AA000
250	600	400	250	NH1	INF 315	PTN90ETCD5AA000
315	600	400	250	NH1	INF 400	PTN90ETCD6AA000
400	700	500	300	NH3	INF 630	PTN90ETCD7AA000
630	700	500	300	NH3	INF 800	PTN90ETCD8AA000

**Designs**

3P+N+PE (along the busbar enclosure)	PTN90 <b>E</b> TCD2AA000
3P+NP+PE (along the busbar enclosure)	PTN90 <b>O</b> TCD2AA000
3P+N+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>G</b> TCD2AA000
3P+NP+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>V</b> TCD2AA000

## Tap-off box for installation of circuit breakers

**Purpose:**

- connection of consumers to plug-in points of a busbar.

**Characteristics:**

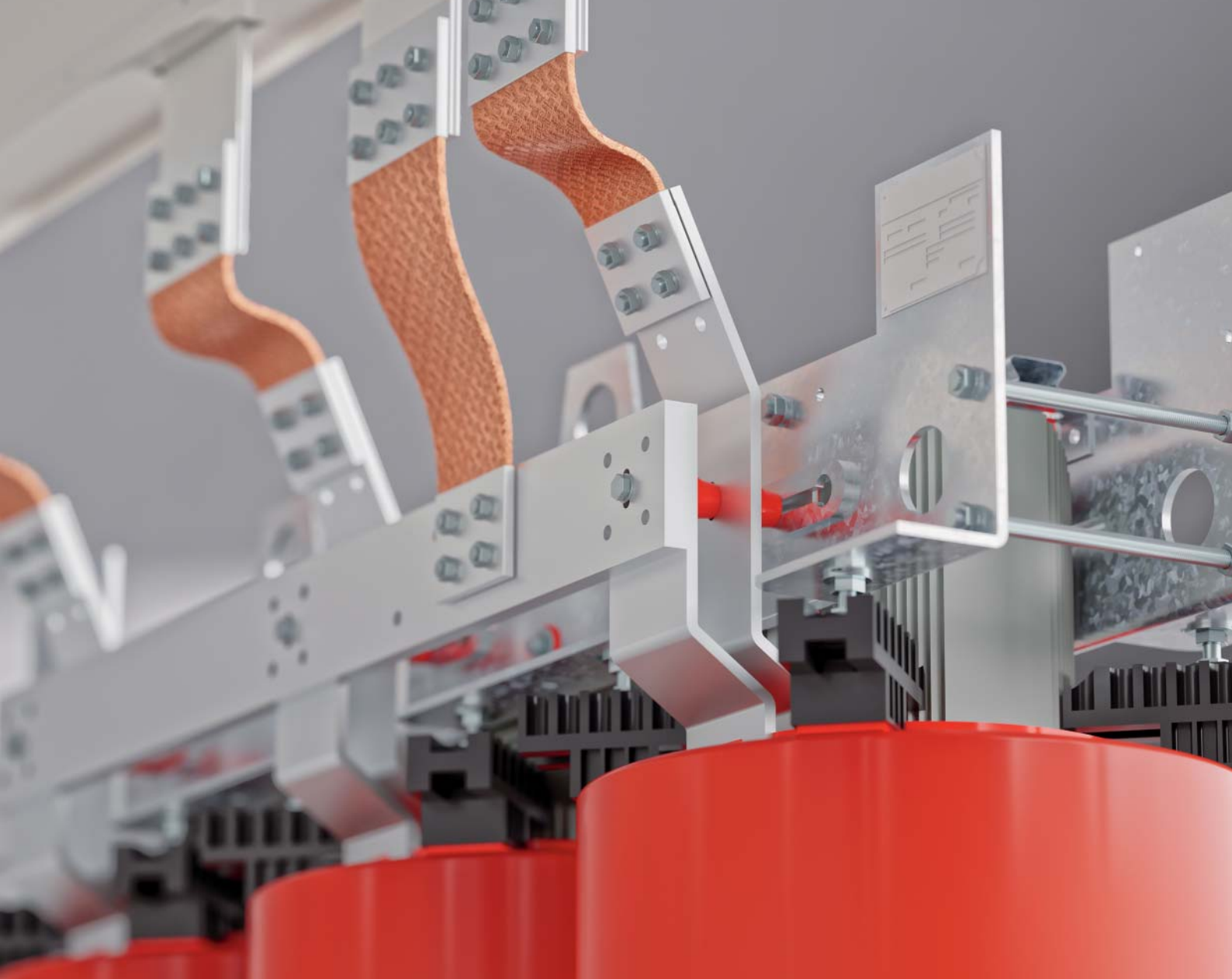
- the box is prepared for a specific MCCB model;
- circuit breakers are not included into the scope of supply.

MCCB	Code	MCCB	Code	MCCB	Code	MCCB	Code
TMax T1	PTN90ETCT1AA000	DPX 125	PTN90ETCP1AA000	NSX 100	PTN90ETCY1AA000	3VA10	PTN90ETCA1AA000
TMax XT1	PTN90ETCX1AA000	DPX 160	PTN90ETCP2AA000	NSX 160	PTN90ETCY2AA000	3VA11	PTN90ETCA2AA000
TMax T2	PTN90ETCT2AA000	DPX 250	PTN90ETCP3AA000	NSX 250	PTN90ETCY3AA000	3VA21	PTN90ETCA4AA000
TMax XT2	PTN90ETCX2AA000	DPX 250ER	PTN90ETCP4AA000	NSX 400	PTN90ETCY4AA000	3VA22	PTN90ETCA5AA000
TMax T3	PTN90ETCT3AA000	DPX 630	PTN90ETCP5AA000	NSX 630	PTN90ETCY5AA000	3VA23	PTN90ETCA6AA000
TMax XT3	PTN90ETCX3AA000					3VA24	PTN90ETCA7AA000
TMax T4	PTN90ETCT4AA000					3VT1	PTN90ETCV1AA000
TMax XT4	PTN90ETCX4AA000					3VT2	PTN90ETCV2AA000
TMax T5	PTN90ETCT5AA000					3VT3	PTN90ETCV3AA000
TMax T6	PTN90ETCT6AA000						

**Designs**

3P+N+PE (along the busbar enclosure)	PTN90 <b>E</b> TCT1AA000
3P+NP+PE (along the busbar enclosure)	PTN90 <b>O</b> TCT1AA000
3P+N+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>G</b> TCT1AA000
3P+NP+FE (bus)+PE (along the busbar enclosure)	PTN90 <b>V</b> TCT1AA000





## Cast Resin Transformers

Standard design transformers .....	155
Low losses transformers .....	175

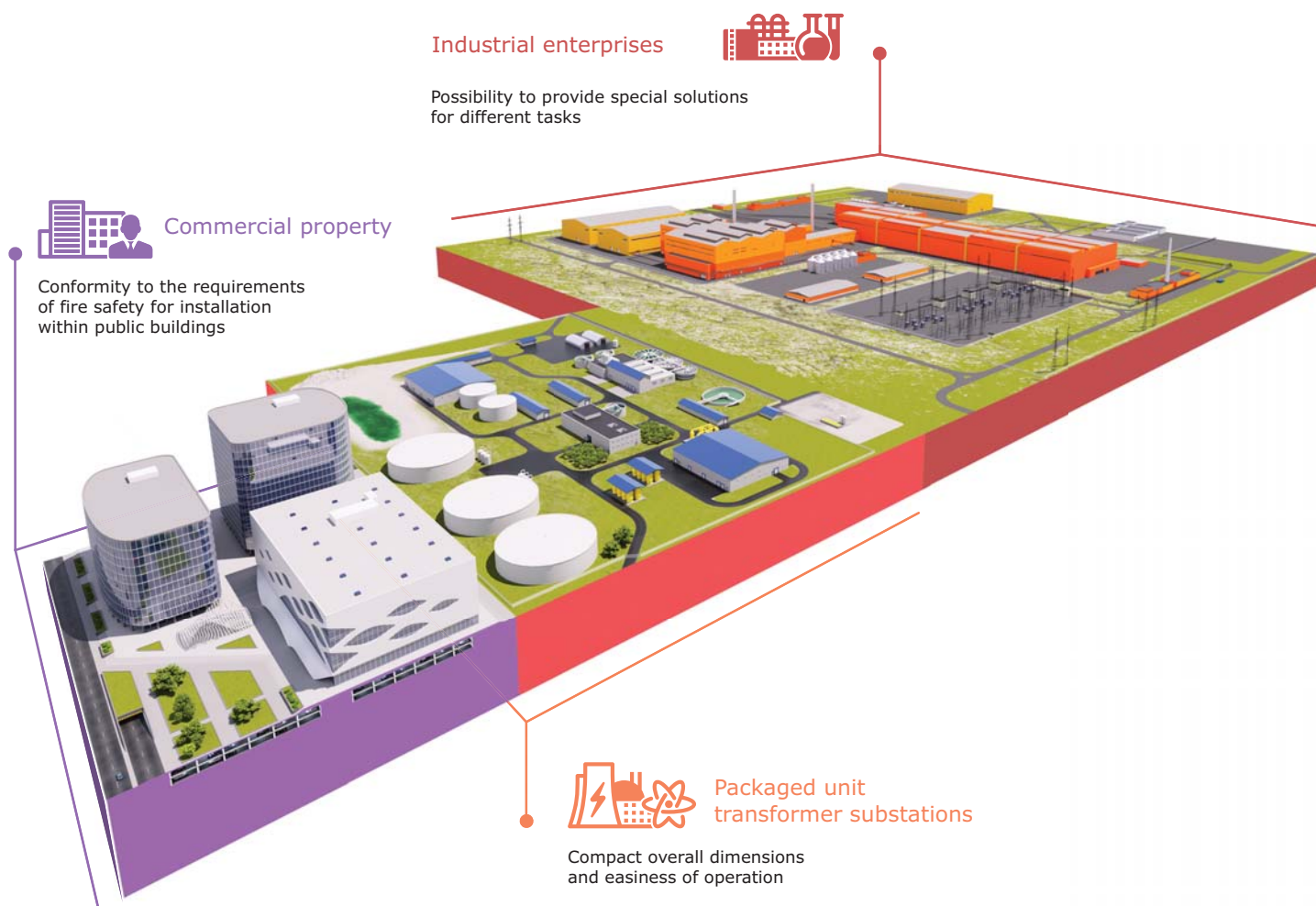
## Cast Resin Transformers

### Description

Cast resin transformer is a modern and highly reliable high quality product. Equipped with natural air cooling the transformer is the optimum solution for facilities with strict requirements for fire safety and environmental protection.

### Application

Transformers with cast resin are used in areas wherein a high level of safety is required in relation to personnel, equipment and environment. Due to the lack of materials containing cumulative material, DKC transformers can be installed indoors and do not require independent transformer substations. This allows the distribution of transformers near the load center, which leads to a significant reduction in electrical losses by means of optimization of low-voltage circuits in the power layout.



### Assortment

At the present day, DKC product range includes two groups of cast resin transformers: of standard design and low losses "ECO" with rated power of 100–8000 kVA (on request) and with voltage class of up to 35 kV.

Optionally transformers may be made:

- with copper winding;
- with application polymer insulation allowing for operation at low temperatures (up to –65 °C).



## Specification

All presented transformers have the general complete set:

- transport wheels;
- lifting lugs (4 pcs);
- NLTC for adjustment of  $2.0 \times 2.5\%$  (+/-) of rated current;
- nameplate with rated electrical data;
- stainless steel plate for earthing;
- terminal box;
- PT 100 temperature sensor;
- program unit for transformer temperature control with a function of switching off, installation of forced ventilation and alarm.

## Accessories

Installation of accessories for additional protection of transformer against overheating, precipitation, condensate, foreign particles, as well as vibrations:

- hook for movement;
- forced ventilation;
- protection box IP23-IP31;
- antivibration supports.

## Distinctive features

### Quality

Cast resin transformers are manufactured at the DKC plant in Italy in accordance with the highest European quality standards.

### Safety

Application of cast resin in power transformer makes it possible to ensure high level of fire safety. Toxicity of fumes during burning (F1).

### Servicing ease

Due to the absence of oil as a dielectric in dry transformers, there is no need to clean and replace the oil (as in oil transformer). Consequently, maintenance is not required during the service life, as well as the elimination of contamination due to transformer oil leaks.

### Small dimensions and weights

Application of cast resin winding in transformers makes it possible to obtain transformers in the same dimensions for use in circuits with higher voltage level.

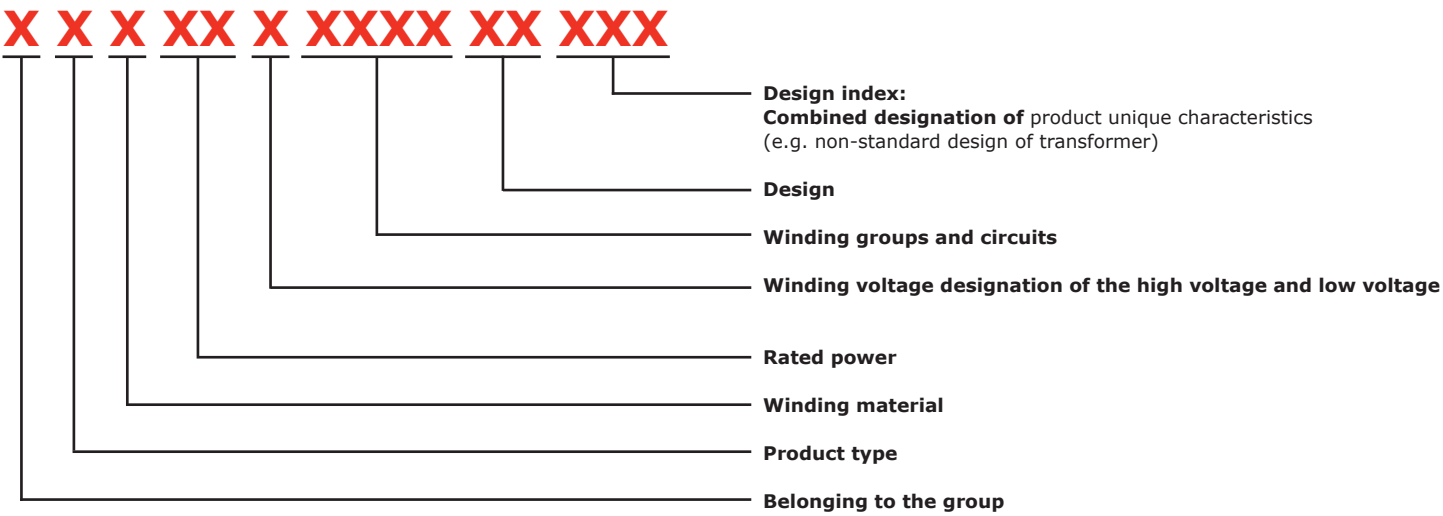
### Ease of operation

Transformer windings are insulated by means of cast resin ensuring stable operation of the device with high coefficient of magnetic induction. It gives the possibility to install transformer near low-voltage equipment indoors. Reduction of magnetic load, as well as application of stacking system Step-Lap with double laser cut for steel core served for noise level reduction and no load losses.

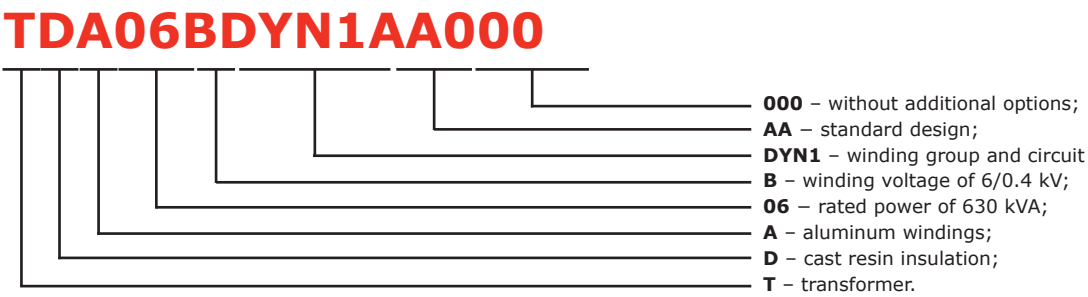
### Weather resistance

Taking into account the fact that the Russian Federation is located in several climatic areas DKC transformers are designed for работы with low temperature value of up to  $-65\text{ }^{\circ}\text{C}$ . For improvement of mechanical strength high voltage winding is reinforced with grid made of fiberglass on both sides. And owing to protective box dust and moisture protection degree of transformer is IP23-IP31 ensuring stable operation of equipment in areas with high humidity (E2).

Coding system



Example use



Code	Name
TDA06BDYN1AA000	Cast resin transformer, Al, 630 kVA, 6/0.4, D/Yn-11IP00

**Annex 1. Belonging to the group**

T	transformer
---	-------------

**Annex 2. Product type**

D	cast resin transformer
R	reactor

**Annex 3. Winding material**

A	aluminum
C	copper
N	accessory

**Annex 4. Rated power**

01	100
02	160
03	250
04	400
05	500
06	630
08	800
10	1000
13	1250
16	1600
20	2000
25	2500
32	3150

**Annex 5. Winding voltage**

A	10/0.4
B	6/0.4
C	10/0.69
D	6/0.69
E	20/0.4
F	20/0.69
G	35/10
H	35/6
I	35/0.4

## Annex 6. Winding groups and circuits

DYN1	D/Yn-11
DD00	D/D-0
YYN0	Y/Yn-0
YNY0	Yn/Y-0
YD11	Y/D-11
YND1	Yn/D-11
YZN1	Y/Zn-11

## Annex 7. Design

AA	standard design without additional options
AB	with addition of protection box IP31
AC	with operation allowance at low temperatures (up to -65 °C)
AD	with operation allowance over 1000 m above the sea level
AE	with decreased losses
AF	with forced ventilation
AG	with antivibration supports
AH	with class H insulation
AI	seismic design
AJ	with operation allowance at low temperatures (up to -65 °C) and operation allowance over 1000 m above the sea level
AK	with operation allowance at low temperatures (up to -65 °C) and decreased losses
AL	with operation allowance at low temperatures (up to -65 °C) and forced ventilation
AM	with operation allowance at low temperatures (up to -65 °C) and antivibration supports
AN	with operation allowance at low temperatures (up to -65 °C) and seismic design
AO	with operation allowance over 1000 m above the sea level and decreased losses
AP	with operation allowance over 1000 m above the sea level and forced ventilation
AQ	with operation allowance over 1000 m above the sea level and antivibration supports
AR	with operation allowance over 1000 m above the sea level and class H insulation
AS	with operation allowance over 1000 m above the sea level and seismic design
AT	with decreased ventilation and forced ventilation
AU	with decreased losses and antivibration supports
AV	with decreased losses and class H insulation
AW	with decreased ventilation and seismic design
AX	with forced ventilation and antivibration supports
AY	with forced ventilation and class H insulation
AZ	with forced ventilation and seismic design
CB	with antivibration supports and class H insulation
CC	with antivibration supports and seismic design
CD	with class H insulation and seismic design
CE	with operation allowance at low temperatures (up to -65 °C), operation allowance over 1000 m above the sea level and decreased losses
CF	with operation allowance at low temperatures (up to -65 °C), forced ventilation and decreased losses
CG	with operation allowance at low temperatures (up to -65 °C), antivibration supports and decreased losses
CH	with operation allowance at low temperatures (up to -65 °C), seismic design and decreased losses
CI	with operation allowance over 1000 m above the sea level, forced ventilation and decreased losses
CJ	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
CK	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
CL	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
CM	with decreased ventilation, antivibration supports and forced ventilation
CN	with decreased losses, antivibration supports and class H insulation
CO	with decreased ventilation, antivibration supports and seismic design
CP	with forced ventilation, class H insulation and antivibration supports
CQ	with forced ventilation, class H insulation and seismic design
CR	with antivibration supports, class H insulation and seismic design
CS	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses and operation allowance over 1000 m above the sea level
CT	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses and antivibration supports
CU	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses and seismic design
CV	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports and operation allowance over 1000 m above the sea level
CW	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports and seismic design

## Continuation of Annex 7. Design

CX	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports, operation allowance over 1000 m above the sea level and class H insulation
CY	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports, seismic design and class H insulation
CZ	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports, operation allowance over 1000 m above the sea level, class H insulation and seismic design
BB	with addition of protection box IP31 and operation allowance at low temperatures (up to -65 °C)
BD	with addition of protection box IP31 and operation allowance over 1000 m above the sea level
BE	with addition of protection box IP31 and decreased losses
BF	with addition of protection box IP31 and forced ventilation
BG	with addition of protection box IP31 and antivibration supports
BH	with addition of protection box IP31 and class H insulation
BI	with addition of protection box IP31 and seismic design
BJ	with addition of protection box IP31 and operation allowance at low temperatures (up to -65 °C) and operation allowance over 1000 m above the sea level
BK	with addition of protection box IP31, operation allowance at low temperatures (up to -65 °C) and decreased losses
BL	with addition of protection box IP31, operation allowance at low temperatures (up to -65 °C) and forced ventilation
BM	with addition of protection box IP31, operation allowance at low temperatures (up to -65 °C) and antivibration supports
BN	with addition of protection box IP31, operation allowance at low temperatures (up to -65 °C) and seismic design
BO	with operation allowance over 1000 m above the sea level, addition of protection box IP31 and decreased losses
BP	with operation allowance over 1000 m above the sea level, addition of protection box IP31 and forced ventilation
BQ	with operation allowance over 1000 m above the sea level, addition of protection box IP31 and antivibration supports
BR	with operation allowance over 1000 m above the sea level, addition of protection box IP31 and class H insulation
BS	with operation allowance over 1000 m above the sea level, addition of protection box IP31 and seismic design
BT	ECO, forced ventilation, IP31
BU	ECO, antivibration supports, IP31
BV	ECO, class H, IP31
BW	ECO, seismic design, IP31
BX	with forced ventilation, addition of protection box IP31 and antivibration supports
BY	with forced ventilation, addition of protection box IP31 and class H insulation
BZ	with forced ventilation, addition of protection box IP31 and seismic design
DD	with antivibration supports, addition of protection box IP31 and class H insulation
DE	With antivibration supports, addition of protection box IP31 and seismic design
DF	seismic design with addition of protection box IP31 and class H insulation
DG	with operation allowance at low temperatures (up to -65 °C), decreased losses, addition of protection box IP31 and with operation allowance over 1000 m above the sea level
DH	with operation allowance at low temperatures (up to -65 °C), decreased losses, addition of protection box IP31 and decreased losses
DI	with operation allowance at low temperatures (up to -65 °C), decreased losses, addition of protection box IP31 and antivibration supports
DJ	with operation allowance at low temperatures (up to -65 °C), decreased losses, addition of protection box IP31 and seismic design
DK	with operation allowance over 1000 m above the sea level, forced ventilation, addition of protection box IP31 and decreased losses
DL	with operation allowance over 1000 m above the sea level, forced ventilation, addition of protection box IP31 and antivibration supports
DM	with operation allowance over 1000 m above the sea level, forced ventilation, addition of protection box IP31 and class H insulation
DN	with operation allowance over 1000 m above the sea level, forced ventilation, addition of protection box IP31 and seismic design
DO	with decreased losses, antivibration supports and addition of protection box IP31 and forced ventilation
DP	with decreased losses, antivibration supports and addition of protection box IP31 and class H insulation
DQ	with decreased losses, antivibration supports and addition of protection box IP31 and seismic design
DR	with forced ventilation, class H insulation, addition of protection box IP31 and antivibration supports
DS	with forced ventilation, class H insulation, addition of protection box IP31 and seismic design
DT	Seismic design with class H insulation, addition of protection box IP31 and antivibration supports
DU	with operation allowance at low temperatures (up to -65 °C), decreased losses, forced ventilation, addition of protection box IP31 and with operation allowance over 1000 m above the sea level
DV	with operation allowance at low temperatures (up to -65 °C), decreased losses, forced ventilation, addition of protection box IP31 and antivibration supports
DW	with operation allowance at low temperatures (up to -65 °C), decreased losses, forced ventilation, addition of protection box IP31 and seismic design
DX	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports, addition of protection box IP31 and with operation allowance over 1000 m above the sea level
DY	with operation allowance at low temperatures (up to -65 °C), forced ventilation, decreased losses, antivibration supports, addition of protection box IP31 and seismic design
DZ	with operation allowance at low temperatures (up to -65 °C), operation allowance over 1000 m above the sea level, decreased losses, forced ventilation, decreased losses, antivibration supports, class H insulation and addition of protection box IP31
EE	with operation allowance at low temperatures (up to -65 °C), seismic design, decreased losses, forced ventilation, decreased losses, antivibration supports, class H insulation and addition of protection box IP31
EF	with operation allowance at low temperatures (up to -65 °C), operation allowance over 1000 m above the sea level, decreased losses, forced ventilation, decreased losses, antivibration supports, class H insulation, addition of protection box IP31 and seismic design

### Continuation of Annex 7. Design

[illegible]

### Continuation of Annex 7. Design

[illegible]

## Ending of Annex 7. Design

HO	with antivibration supports, seismic resistance, with forced ventilation, with addition of protection box IP31
HP	with antivibration supports, with operation allowance at low temperatures (up to -65 °C), with forced ventilation, addition of protection box IP31
HQ	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, with addition of protection box IP31
HR	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at low temperatures (up to -65 °C), with addition of protection box IP31
HS	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at low temperatures (up to -65 °C), with class H insulation, with addition of protection box IP31
HT	with antivibration supports, seismic resistance, with forced ventilation, with addition of protection box IP31, side outlets
HU	with antivibration supports, with operation allowance at low temperatures (up to -65 °C), with forced ventilation, addition of protection box IP31 and side outlets
HV	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, with addition of protection box IP31, side outlets
HW	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at low temperatures (up to -65 °C), with addition of protection box IP31, side outlets
HX	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at low temperatures (up to -65 °C), with class H insulation, with addition of protection box IP31, side outlets





# **HERCULES**

## **Standard design transformers**

<b>Technical data .....</b>	<b>156</b>
<b>Transformers with aluminum windings 100–500 kVA .....</b>	<b>159</b>
<b>Transformers with copper windings 100–500 kVA .....</b>	<b>162</b>
<b>Transformers with polymer insulation of windings 100–500 kVA .....</b>	<b>165</b>
<b>Transformers with aluminum windings 630–3150 kVA .....</b>	<b>167</b>
<b>Transformers with copper windings 630–3150 kVA .....</b>	<b>170</b>
<b>Transformers with polymer insulation of windings 630–3150 kVA .....</b>	<b>173</b>

## Technical data

### Technical data on standard design transformers with aluminum windings 100–3150 kVA

Power, kVA	Short-circuit voltage, %	No load loss, W	Load loss at 75 °C, W	No load current, %	$\Delta V$ % (75°C)		$\eta$ efficiency at 75 °C					
					100% load, $\cos\phi$		$\cos\phi$ 0.9			$\cos\phi$ 1.00		
					0.9	1	50 %	75 %	100 %	50 %	75 %	100 %
100	6	420	2350	1.20	4.64	2.52	97.81	97.48	97.01	98.02	97.73	97.30
160	6	570	3100	0.90	4.35	2.11	98.17	97.90	97.51	98.35	98.11	97.76
200	6	700	4000	0.90	4.39	2.17	98.15	97.86	97.46	98.33	98.07	97.70
250	6	750	4350	0.90	4.20	1.91	98.39	98.14	97.78	98.55	98.32	98.00
315	6	900	4400	0.90	3.94	1.57	98.61	98.44	98.16	98.75	98.59	98.35
400	6	1100	4850	0.70	3.80	1.39	98.73	98.60	98.37	98.86	98.74	98.53
500	6	1300	6000	0.70	3.79	1.38	98.77	98.63	98.40	98.89	98.77	98.56
630	6	1650	6900	0.70	3.70	1.27	98.82	98.72	98.51	98.94	98.84	98.66
800	6	1900	8500	0.60	3.68	1.24	98.89	98.78	98.58	99.00	98.90	98.72
1000	6	2300	10100	0.60	3.63	1.19	98.94	98.83	98.64	99.04	98.95	98.78
1250	6	2700	11600	0.60	3.57	1.11	99.01	98.92	98.74	99.11	99.03	98.87
1600	6	2900	14000	0.60	3.52	1.05	99.12	99.01	98.84	99.21	99.11	98.95
2000	6	4000	17000	0.60	3.50	1.03	99.01	99.01	98.85	99.18	99.10	98.96
2500	6	4500	19000	0.60	3.43	0.94	99.18	99.11	98.97	99.27	99.20	99.07
3150	6	5600	22000	0.60	3.38	0.88	99.22	99.16	99.04	99.30	99.24	99.13
Protection degree (without a box)		IP00										
Protection degree (with a box)		IP21 - 31										
Warranty period		3 years										
Service life before replacement		30 years										

### Dimensions and weights of standard design transformers IP00 with aluminum windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Wheels			Weight, kg
				diameter, mm	width, mm	distance, mm	
100	995	1185	710	125	40	520	530
160	1100	1145	730	125	40	520	670
200	1145	1360	735	125	40	520	850
250	1085	1389	734	125	40	670	920
315	1133	1529	818	125	40	670	1130
400	1190	1539	862	125	40	670	1285
500	1265	1589	836	125	40	670	1480
630	1355	1601	855	125	40	670	1700
800	1355	1853	855	125	40	670	1990
1000	1481	1825	966	160	50	820	2240
1250	1484	1995	973	160	50	820	2650
1600	1526	2095	978	160	50	820	2959
2000	1625	2216	1270	200	70	1070	3650
2500	1790	2276	1270	200	70	1070	4400
3150	1904	2336	1270	200	70	1070	5007

## Dimensions and weights of standard design transformers IP31 with aluminum windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Weight, kg
100	1852	1597	1332	200
160	1852	1597	1332	200
200	1852	1597	1332	200
250	1852	1899	1532	250
315	1852	1899	1532	250
400	1852	1899	1532	250
500	2232	2200	1532	300
630	2232	2200	1532	300
800	2232	2200	1532	300
1000	2232	2435	1532	350
1250	2232	2435	1532	350
1600	2232	2885	1532	400
2000	2232	2885	1532	400
2500	2632	2885	1632	450
3150	2632	2885	1632	450

## Technical data on standard design transformers with copper windings 100–3150 kVA

Power, kVA	Short-circuit voltage, %	No load loss, W	Load loss at 75 °C, W	No load current, %	$\Delta V$ % (75°C)		$\eta$ efficiency at 75 °C					
					100% load, $\cos\phi$		$\cos\phi$ 0.9			$\cos\phi$ 1.00		
					0.9	1	50 %	75 %	100 %	50 %	75 %	100 %
100	6	420	2350	1.20	4.64	2.52	97.81	97.48	97.01	98.02	97.73	97.30
160	6	570	3100	0.90	4.35	2.11	98.17	97.90	97.51	98.35	98.11	97.76
200	6	700	4000	0.90	4.39	2.17	98.15	97.86	97.46	98.33	98.07	97.70
250	6	750	4350	0.90	4.20	1.91	98.39	98.14	97.78	98.55	98.32	98.00
315	6	900	4400	0.90	3.94	1.57	98.61	98.44	98.16	98.75	98.59	98.35
400	6	1100	4850	0.70	3.80	1.39	98.73	98.60	98.37	98.86	98.74	98.53
500	6	1300	6000	0.70	3.79	1.38	98.77	98.63	98.40	98.89	98.77	98.56
630	6	1650	6900	0.70	3.70	1.27	98.82	98.72	98.51	98.94	98.84	98.66
800	6	1900	8500	0.60	3.68	1.24	98.89	98.78	98.58	99.00	98.90	98.72
1000	6	2300	10100	0.60	3.63	1.19	98.94	98.83	98.64	99.04	98.95	98.78
1250	6	2700	11600	0.60	3.57	1.11	99.01	98.92	98.74	99.11	99.03	98.87
1600	6	2900	14000	0.60	3.52	1.05	99.12	99.01	98.84	99.21	99.11	98.95
2000	6	4000	17000	0.60	3.50	1.03	99.01	99.01	98.85	99.18	99.10	98.96
2500	6	4500	19000	0.60	3.43	0.94	99.18	99.11	98.97	99.27	99.20	99.07
3150	6	5600	22000	0.60	3.38	0.88	99.22	99.16	99.04	99.30	99.24	99.13
Protection degree (without a box)		IP00										
Protection degree (with a box)		IP21 - 31										
Warranty period		3 years										
Service life before replacement		30 years										

## Dimensions and weights of standard design transformers IP00 with copper windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Wheels			Weight, kg
				diameter, mm	width, mm	distance, mm	
100	995	1185	710	125	40	520	530
160	1100	1145	730	125	40	520	670
200	1145	1360	735	125	40	520	850
250	1085	1389	734	125	40	670	920
315	1133	1529	818	125	40	670	1130
400	1190	1539	862	125	40	670	1285
500	1265	1589	836	125	40	670	1480
630	1355	1601	855	125	40	670	1700
800	1355	1853	855	125	40	670	1990
1000	1481	1825	966	160	50	820	2240
1250	1484	1995	973	160	50	820	2650
1600	1526	2095	978	160	50	820	2959
2000	1625	2216	1270	200	70	1070	3650
2500	1790	2276	1270	200	70	1070	4400
3150	1904	2336	1270	200	70	1070	5007

## Standard design transformers 100–500 kVA

### Standard design transformers with aluminum windings 100–500 kVA


**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- power is 100–500 kVA;
- protection degree IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDA01BDYN1AA000
	10	6	420	2350	1.2	TDA01ADYN1AA000
160	6	6	570	3100	0.9	TDA02BDYN1AA000
	10	6	570	3100	0.9	TDA02ADYN1AA000
250	6	6	750	4350	0.9	TDA03BDYN1AA000
	10	6	750	4350	0.9	TDA03ADYN1AA000
400	6	6	1100	4850	0.7	TDA04BDYN1AA000
	10	6	1100	4850	0.7	TDA04ADYN1AA000
500	6	6	1300	6000	0.7	TDA05BDYN1AA000
	10	6	1300	6000	0.7	TDA05ADYN1AA000

### Coding of designs

AD	with operation allowance over 1000 m above the sea level
AF	with forced ventilation
AG	with antivibration supports
AH	with class H insulation
AI	seismic design
AP	with operation allowance over 1000 m above the sea level and forced ventilation
AQ	with operation allowance over 1000 m above the sea level and antivibration supports
AR	with operation allowance over 1000 m above the sea level and class H insulation
AS	with operation allowance over 1000 m above the sea level and seismic design
AX	with forced ventilation and antivibration supports
AY	with forced ventilation and class H insulation
AZ	with forced ventilation and seismic design
CB	with antivibration supports and class H insulation
CC	with antivibration supports and seismic design
CD	with class H insulation and seismic design
CJ	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
CK	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
CL	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
CP	with forced ventilation, class H insulation and antivibration supports
CQ	with forced ventilation, class H insulation and seismic design
CR	with antivibration supports, class H insulation and seismic design
HJ	with antivibration supports, seismic resistance, with forced ventilation
HL	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation

## Standard design transformers with aluminum windings 100-500 kVA wit protective box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 100-500 kVA;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDA01BDYN1AB000
	10	1852	1597	1332	200	TDA01ADYN1AB000
160	6	1852	1597	1332	200	TDA02BDYN1AB000
	10	1852	1597	1332	200	TDA02ADYN1AB000
250	6	1852	1899	1532	250	TDA03BDYN1AB000
	10	1852	1899	1532	250	TDA03ADYN1AB000
400	6	1852	1899	1532	250	TDA04BDYN1AB000
	10	1852	1899	1532	250	TDA04ADYN1AB000
500	6	2232	2200	1532	300	TDA05BDYN1AB000
	10	2232	2200	1532	300	TDA05ADYN1AB000

## Coding of designs

BD	with operation allowance over 1000 m above the sea level
BF	with forced ventilation
BG	with antivibration supports
BH	with class H insulation
BI	seismic design
BP	with operation allowance over 1000 m above the sea level and forced ventilation
BQ	with operation allowance over 1000 m above the sea level and antivibration supports
BR	with operation allowance over 1000 m above the sea level and class H insulation
BS	with operation allowance over 1000 m above the sea level and seismic design
BX	with forced ventilation and antivibration supports
BY	with forced ventilation and class H insulation
BZ	with forced ventilation and seismic design
DD	with antivibration supports and class H insulation
DE	with antivibration supports and seismic design
DF	with class H insulation and seismic design
DL	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
DM	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
DN	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
DR	with forced ventilation, class H insulation and antivibration supports
DS	with forced ventilation, class H insulation and seismic design
DT	with antivibration supports, class H insulation and seismic design
EG	side outlets
EN	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
EO	with operation allowance over 1000 m above the sea level, with antivibration supports, side outlets
EP	with operation allowance over 1000 m above the sea level, with class H insulation, side outlets
EQ	with operation allowance over 1000 m above the sea level, seismic design, side outlets
EV	with forced ventilation, with antivibration supports, side outlets
EW	with forced ventilation, with class H insulation, side outlets
EX	with forced ventilation, seismic design, side outlets
EY	with antivibration supports, with class H insulation, side outlets
EZ	with antivibration supports, seismic design, side outlets
FA	with class H insulation, seismic design, side outlets
FG	with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation, side outlets
FH	with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation, side outlets
FI	with operation allowance over 1000 m above the sea level, seismic design, with forced ventilation, side outlets
FM	with forced ventilation, with antivibration supports, with class H insulation, side outlets
FN	with forced ventilation, seismic design, with class H insulation, side outlets
FO	with antivibration supports, with class H insulation, seismic resistance, side outlets
FY	with operation allowance over 1000 m above the sea level, side outlets
GA	with forced ventilation, side outlets
GB	with antivibration supports, side outlets
GC	with class H insulation, side outlets
GD	seismic design, side outlets
GP	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GQ	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
HO	with antivibration supports, seismic resistance, with forced ventilation
HQ	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation
HV	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets

## Standard design transformers with copper windings 100–500 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 100–500 kVA;
- protection degree IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDC01BDYN1AA000
	10	6	420	2350	1.2	TDC01ADYN1AA000
160	6	6	570	3100	0.9	TDC02BDYN1AA000
	10	6	570	3100	0.9	TDC02ADYN1AA000
250	6	6	750	4350	0.9	TDC03BDYN1AA000
	10	6	750	4350	0.9	TDC03ADYN1AA000
400	6	6	1100	4850	0.7	TDC04BDYN1AA000
	10	6	1100	4850	0.7	TDC04ADYN1AA000
500	6	6	1300	6000	0.7	TDC05BDYN1AA000
	10	6	1300	6000	0.7	TDC05ADYN1AA000

## Coding of designs

AD	with operation allowance over 1000 m above the sea level
AF	with forced ventilation
AG	with antivibration supports
AH	with class H insulation
AI	seismic design
AP	with operation allowance over 1000 m above the sea level and forced ventilation
AQ	with operation allowance over 1000 m above the sea level and antivibration supports
AR	with operation allowance over 1000 m above the sea level and class H insulation
AS	with operation allowance over 1000 m above the sea level and seismic design
AX	with forced ventilation and antivibration supports
AY	with forced ventilation and class H insulation
AZ	with forced ventilation and seismic design
CB	with antivibration supports and class H insulation
CC	with antivibration supports and seismic design
CD	with class H insulation and seismic design
CJ	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
CK	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
CL	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
CP	with forced ventilation, class H insulation and antivibration supports
CQ	with forced ventilation, class H insulation and seismic design
CR	with antivibration supports, class H insulation and seismic design
HJ	with antivibration supports, seismic resistance, with forced ventilation
HL	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation



## Standard design transformers with copper windings 100–500 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- power is 100–500 kVA;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDC01BDYN1AB000
	10	1852	1597	1332	200	TDC01ADYN1AB000
160	6	1852	1597	1332	200	TDC02BDYN1AB000
	10	1852	1597	1332	200	TDC02ADYN1AB000
250	6	1852	1899	1532	250	TDC03BDYN1AB000
	10	1852	1899	1532	250	TDC03ADYN1AB000
400	6	1852	1899	1532	250	TDC04BDYN1AB000
	10	1852	1899	1532	250	TDC04ADYN1AB000
500	6	2232	2200	1532	300	TDC05BDYN1AB000
	10	2232	2200	1532	300	TDC05ADYN1AB000

## Coding of designs

BD	with operation allowance over 1000 m above the sea level
BF	with forced ventilation
BG	with antivibration supports
BH	with class H insulation
BI	seismic design
BP	with operation allowance over 1000 m above the sea level and forced ventilation
BQ	with operation allowance over 1000 m above the sea level and antivibration supports
BR	with operation allowance over 1000 m above the sea level and class H insulation
BS	with operation allowance over 1000 m above the sea level and seismic design
BX	with forced ventilation and antivibration supports
BY	with forced ventilation and class H insulation
BZ	with forced ventilation and seismic design
DD	with antivibration supports and class H insulation
DE	with antivibration supports and seismic design
DF	with class H insulation and seismic design
DL	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
DM	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
DN	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
DR	with forced ventilation, class H insulation and antivibration supports
DS	with forced ventilation, class H insulation and seismic design
DT	with antivibration supports, class H insulation and seismic design
BD	with operation allowance over 1000 m above the sea level
BF	with forced ventilation

BG	with antivibration supports
BH	with class H insulation
BI	seismic design
EG	side outlets
EN	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
EO	with operation allowance over 1000 m above the sea level, with antivibration supports, side outlets
EP	with operation allowance over 1000 m above the sea level, with class H insulation, side outlets
EQ	with operation allowance over 1000 m above the sea level, seismic design, side outlets
EV	with forced ventilation, with antivibration supports, side outlets
EW	with forced ventilation, with class H insulation, side outlets
EX	with forced ventilation, seismic design, side outlets
EY	with antivibration supports, with class H insulation, side outlets
EZ	with antivibration supports, seismic design, side outlets
FA	with class H insulation, seismic design, side outlets
FG	with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation, side outlets
FH	with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation, side outlets
FI	with operation allowance over 1000 m above the sea level, seismic design, with forced ventilation, side outlets
FM	with forced ventilation, with antivibration supports, with class H insulation, side outlets
FN	with forced ventilation, seismic design, with class H insulation, side outlets
FO	with antivibration supports, with class H insulation, seismic resistance, side outlets
FY	with operation allowance over 1000 m above the sea level, side outlets
GA	with forced ventilation, side outlets
GB	with antivibration supports, side outlets
GC	with class H insulation, side outlets
GD	seismic design, side outlets
GP	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GQ	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
HO	with antivibration supports, seismic resistance, with forced ventilation
HQ	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation
HV	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets

## Standard design transformers with polymer insulation of windings 100–500 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 100–500 kVA;
- protection degree IP00;
- polymeric "wollastonite" insulation of up to –65 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDA01BDYN1AC000
	10	6	420	2350	1.2	TDA01ADYN1AC000
160	6	6	570	3100	0.9	TDA02BDYN1AC000
	10	6	570	3100	0.9	TDA02ADYN1AC000
250	6	6	750	4350	0.9	TDA03BDYN1AC000
	10	6	750	4350	0.9	TDA03ADYN1AC000
400	6	6	1100	4850	0.7	TDA04BDYN1AC000
	10	6	1100	4850	0.7	TDA04ADYN1AC000
500	6	6	1300	6000	0.7	TDA05BDYN1AC000
	10	6	1300	6000	0.7	TDA05ADYN1AC000

## Coding of designs

AJ	with operation allowance over 1000 m above the sea level
AL	with forced ventilation
AM	with antivibration supports
AN	seismic design
HK	with antivibration supports, with forced ventilation
HM	with antivibration supports, seismic resistance, with forced ventilation
HN	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation

## Standard design transformers with polymer insulation of windings 100–500 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 100–500 kVA;
- polymeric "wollastonite" insulation of up to –65 °C;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDA01BDYN1BB000
	10	1852	1597	1332	200	TDA01ADYN1BB000
160	6	1852	1597	1332	200	TDA02BDYN1BB000
	10	1852	1597	1332	200	TDA02ADYN1BB000
250	6	1852	1899	1532	250	TDA03BDYN1BB000
	10	1852	1899	1532	250	TDA03ADYN1BB000
400	6	1852	1899	1532	250	TDA04BDYN1BB000
	10	1852	1899	1532	250	TDA04ADYN1BB000
500	6	2232	2200	1532	300	TDA05BDYN1BB000
	10	2232	2200	1532	300	TDA05ADYN1BB000

### Coding of designs

BJ	with operation allowance over 1000 m above the sea level
BL	with forced ventilation
BM	with antivibration supports
BN	seismic design
EH	with operation allowance over 1000 m above the sea level, side outlets
EJ	with forced ventilation, side outlets
EK	with antivibration supports, side outlets
EL	seismic design, side outlets
FX	side outlets
GO	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
HP	with antivibration supports, with forced ventilation
HR	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at extremely low temperatures (up to –65 °C)
HS	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, with addition of protection box IP31
HU	with antivibration supports, with forced ventilation, side outlets
HW	with antivibration supports, seismic resistance, with forced ventilation, side outlets
HX	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets

## Standard design transformers 630–3150 kVA

## Standard design transformers with aluminum windings 630–3150 kVA

**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- power is 630–3150 kVA;
- protection degree IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum tape are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDA06BDYN1AA000
	10	6	1650	6900	0.7	TDA06ADYN1AA000
800	6	6	1900	8500	0.6	TDA08BDYN1AA000
	10	6	1900	8500	0.6	TDA08ADYN1AA000
1000	6	6	2300	10100	0.6	TDA10BDYN1AA000
	10	6	2300	10100	0.6	TDA10ADYN1AA000
1250	6	6	2700	11600	0.6	TDA13BDYN1AA000
	10	6	2700	11600	0.6	TDA13ADYN1AA000
1600	6	6	2900	14000	0.6	TDA16BDYN1AA000
	10	6	2900	14000	0.6	TDA16ADYN1AA000
2000	6	6	4000	17000	0.6	TDA20BDYN1AA000
	10	6	4000	17000	0.6	TDA20ADYN1AA000
2500	6	6	4500	19000	0.6	TDA25BDYN1AA000
	10	6	4500	19000	0.6	TDA25ADYN1AA000
3150	6	6	5600	22000	0.6	TDA32BDYN1AA000
	10	6	5600	22000	0.6	TDA32ADYN1AA000

## Coding of designs

AD	with operation allowance over 1000 m above the sea level
AF	with forced ventilation
AG	with antivibration supports
AH	with class H insulation
AI	seismic design
AP	with operation allowance over 1000 m above the sea level and forced ventilation
AQ	with operation allowance over 1000 m above the sea level and antivibration supports
AR	with operation allowance over 1000 m above the sea level and class H insulation
AS	with operation allowance over 1000 m above the sea level and seismic design
AX	with forced ventilation and antivibration supports
AY	with forced ventilation and class H insulation
AZ	with forced ventilation and seismic design
CB	with antivibration supports and class H insulation
CC	with antivibration supports and seismic design
CD	with class H insulation and seismic design
CJ	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
CK	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
CL	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
CP	with forced ventilation, class H insulation and antivibration supports
CQ	with forced ventilation, class H insulation and seismic design
CR	with antivibration supports, class H insulation and seismic design
HJ	with antivibration supports, seismic resistance, with forced ventilation
HL	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation

## Standard design transformers with aluminum windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 630-3150 kVA;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDA01BDYN1AB000
	10	2232	2200	1532	300	TDA01ADYN1AB000
800	6	2232	2200	1532	300	TDA02BDYN1AB000
	10	2232	2200	1532	300	TDA02ADYN1AB000
1000	6	2232	2435	1532	350	TDA03BDYN1AB000
	10	2232	2435	1532	350	TDA03ADYN1AB000
1250	6	2232	2435	1532	350	TDA04BDYN1AB000
	10	2232	2435	1532	350	TDA04ADYN1AB000
1600	6	2232	2885	1532	400	TDA05BDYN1AB000
	10	2232	2885	1532	400	TDA05ADYN1AB000
2000	6	2232	2885	1532	400	TDA20BDYN1AB000
	10	2232	2885	1532	400	TDA20ADYN1AB000
2500	6	2632	2885	1632	450	TDA25BDYN1AB000
	10	2632	2885	1632	450	TDA25ADYN1AB000
3150	6	2632	2885	1632	450	TDA32BDYN1AB000
	10	2632	2885	1632	450	TDA32ADYN1AB000

## Coding of designs

BD	with operation allowance over 1000 m above the sea level
BF	with forced ventilation
BG	with antivibration supports
BH	with class H insulation
BI	seismic design
BP	with operation allowance over 1000 m above the sea level and forced ventilation
BQ	with operation allowance over 1000 m above the sea level and antivibration supports
BR	with operation allowance over 1000 m above the sea level and class H insulation
BS	with operation allowance over 1000 m above the sea level and seismic design
BX	with forced ventilation and antivibration supports
BY	with forced ventilation and class H insulation
BZ	with forced ventilation and seismic design
DD	with antivibration supports and class H insulation
DE	with antivibration supports and seismic design
DF	with class H insulation and seismic design
DL	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
DM	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
DN	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
DR	with forced ventilation, class H insulation and antivibration supports
DS	with forced ventilation, class H insulation and seismic design
DT	with antivibration supports, class H insulation and seismic design
EG	side outlets
EN	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
EO	with operation allowance over 1000 m above the sea level, with antivibration supports, side outlets
EP	with operation allowance over 1000 m above the sea level, with class H insulation, side outlets
EQ	with operation allowance over 1000 m above the sea level, seismic design, side outlets
EV	with forced ventilation, with antivibration supports, side outlets
EW	with forced ventilation, with class H insulation, side outlets
EX	with forced ventilation, seismic design, side outlets
EY	with antivibration supports, with class H insulation, side outlets
EZ	with antivibration supports, seismic design, side outlets
FA	with class H insulation, seismic design, side outlets
FG	with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation, side outlets
FH	with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation, side outlets
FI	with operation allowance over 1000 m above the sea level, seismic design, with forced ventilation, side outlets
FM	with forced ventilation, with antivibration supports, with class H insulation, side outlets
FN	with forced ventilation, seismic design, with class H insulation, side outlets
FO	with antivibration supports, with class H insulation, seismic resistance, side outlets
FY	with operation allowance over 1000 m above the sea level, side outlets
GA	with forced ventilation, side outlets
GB	with antivibration supports, side outlets
GC	with class H insulation, side outlets
GD	seismic design, side outlets
GP	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GQ	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
HO	with antivibration supports, seismic resistance, with forced ventilation
HQ	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation
HV	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets

## Standard design transformers with copper windings 630–3150 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 630–3150 kVA;
- protection degree IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75°C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDC06BDYN1AA000
	10	6	1650	6900	0.7	TDC06ADYN1AA000
800	6	6	1900	8500	0.6	TDC08BDYN1AA000
	10	6	1900	8500	0.6	TDC08ADYN1AA000
1000	6	6	2300	10100	0.6	TDC10BDYN1AA000
	10	6	2300	10100	0.6	TDC10ADYN1AA000
1250	6	6	2700	11600	0.6	TDC13BDYN1AA000
	10	6	2700	11600	0.6	TDC13ADYN1AA000
1600	6	6	2900	14000	0.6	TDC16BDYN1AA000
	10	6	2900	14000	0.6	TDC16ADYN1AA000
2000	6	6	4000	17000	0.6	TDC20BDYN1AA000
	10	6	4000	17000	0.6	TDC20ADYN1AA000
2500	6	6	4500	19000	0.6	TDC25BDYN1AA000
	10	6	4500	19000	0.6	TDC25ADYN1AA000
3150	6	6	5600	22000	0.6	TDC32BDYN1AA000
	10	6	5600	22000	0.6	TDC32ADYN1AA000

## Coding of designs

AD	with operation allowance over 1000 m above the sea level
AF	with forced ventilation
AG	with antivibration supports
AH	with class H insulation
AI	seismic design
AP	with operation allowance over 1000 m above the sea level and forced ventilation
AQ	with operation allowance over 1000 m above the sea level and antivibration supports
AR	with operation allowance over 1000 m above the sea level and class H insulation
AS	with operation allowance over 1000 m above the sea level and seismic design
AX	with forced ventilation and antivibration supports
AY	with forced ventilation and class H insulation
AZ	with forced ventilation and seismic design
CB	with antivibration supports and class H insulation
CC	with antivibration supports and seismic design
CD	with class H insulation and seismic design
CJ	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
CK	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
CL	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design
CP	with forced ventilation, class H insulation and antivibration supports
CQ	with forced ventilation, class H insulation and seismic design
CR	with antivibration supports, class H insulation and seismic design
HJ	with antivibration supports, seismic resistance, with forced ventilation
HL	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation



## Standard design transformers with copper windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- power is 630–3150 kVA;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDC06BDYN1AB000
	10	2232	2200	1532	300	TDC06ADYN1AB000
800	6	2232	2200	1532	300	TDC08BDYN1AB000
	10	2232	2200	1532	300	TDC08ADYN1AB000
1000	6	2232	2435	1532	350	TDC10BDYN1AB000
	10	2232	2435	1532	350	TDC10ADYN1AB000
1250	6	2232	2435	1532	350	TDC13BDYN1AB000
	10	2232	2435	1532	350	TDC13ADYN1AB000
1600	6	2232	2885	1532	400	TDC16BDYN1AB000
	10	2232	2885	1532	400	TDC16ADYN1AB000
2000	6	2232	2885	1532	400	TDC20BDYN1AB000
	10	2232	2885	1532	400	TDC20ADYN1AB000
2500	6	2632	2885	1632	450	TDC25BDYN1AB000
	10	2632	2885	1632	450	TDC25ADYN1AB000
3150	6	2632	2885	1632	450	TDC32BDYN1AB000
	10	2632	2885	1632	450	TDC32ADYN1AB000

## Coding of designs

BD	with operation allowance over 1000 m above the sea level
BF	with forced ventilation
BG	with antivibration supports
BH	with class H insulation
BI	seismic design
BP	with operation allowance over 1000 m above the sea level and forced ventilation
BQ	with operation allowance over 1000 m above the sea level and antivibration supports
BR	with operation allowance over 1000 m above the sea level and class H insulation
BS	with operation allowance over 1000 m above the sea level and seismic design
BX	with forced ventilation and antivibration supports
BY	with forced ventilation and class H insulation
BZ	with forced ventilation and seismic design
DD	with antivibration supports and class H insulation
DE	with antivibration supports and seismic design
DF	with class H insulation and seismic design
DL	with operation allowance over 1000 m above the sea level, forced ventilation and antivibration supports
DM	with operation allowance over 1000 m above the sea level, forced ventilation and class H insulation
DN	with operation allowance over 1000 m above the sea level, forced ventilation and seismic design

DR	with forced ventilation, class H insulation and antivibration supports
DS	with forced ventilation, class H insulation and seismic design
DT	with antivibration supports, class H insulation and seismic design
EG	side outlets
EN	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
EO	with operation allowance over 1000 m above the sea level, with antivibration supports, side outlets
EP	with operation allowance over 1000 m above the sea level, with class H insulation, side outlets
EQ	with operation allowance over 1000 m above the sea level, seismic design, side outlets
EV	with forced ventilation, with antivibration supports, side outlets
EW	with forced ventilation, with class H insulation, side outlets
EX	with forced ventilation, seismic design, side outlets
EY	with antivibration supports, with class H insulation, side outlets
EZ	with antivibration supports, seismic design, side outlets
FA	with class H insulation, seismic design, side outlets
FG	with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation, side outlets
FH	with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation, side outlets
FI	with operation allowance over 1000 m above the sea level, seismic design, with forced ventilation, side outlets
FM	with forced ventilation, with antivibration supports, with class H insulation, side outlets
FN	with forced ventilation, seismic design, with class H insulation, side outlets
FO	with antivibration supports, with class H insulation, seismic resistance, side outlets
FY	with operation allowance over 1000 m above the sea level, side outlets
GA	with forced ventilation, side outlets
GB	with antivibration supports, side outlets
GC	with class H insulation, side outlets
GD	seismic design, side outlets
GP	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GQ	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
HO	with antivibration supports, seismic resistance, with forced ventilation
HQ	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation
HV	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets

## Standard design transformers with polymer insulation of windings 630–3150 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- power is 630–3150 kVA;
- protection degree IP00;
- polymeric "wollastonite" insulation of up to –65 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum tape are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75°C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDA06BDYN1AC000
	10	6	1650	6900	0.7	TDA06ADYN1AC000
800	6	6	1900	8500	0.6	TDA08BDYN1AC000
	10	6	1900	8500	0.6	TDA08ADYN1AC000
1000	6	6	2300	10100	0.6	TDA10BDYN1AC000
	10	6	2300	10100	0.6	TDA10ADYN1AC000
1250	6	6	2700	11600	0.6	TDA13BDYN1AC000
	10	6	2700	11600	0.6	TDA13ADYN1AC000
1600	6	6	2900	14000	0.6	TDA16BDYN1AC000
	10	6	2900	14000	0.6	TDA16ADYN1AC000
2000	6	6	4000	17000	0.6	TDA20BDYN1AC000
	10	6	4000	17000	0.6	TDA20ADYN1AC000
2500	6	6	4500	19000	0.6	TDA25BDYN1AC000
	10	6	4500	19000	0.6	TDA25ADYN1AC000
3150	6	6	5600	22000	0.6	TDA32BDYN1AC000
	10	6	5600	22000	0.6	TDA32ADYN1AC000

## Coding of designs

AJ	with operation allowance over 1000 m above the sea level
AL	with forced ventilation
AM	with antivibration supports
AN	seismic design
HK	with antivibration supports, with forced ventilation
HM	with antivibration supports, seismic resistance, with forced ventilation
HN	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation

## Standard design transformers with polymer insulation of windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- power is 630–3150 kVA;
- polymeric "wollastonite" insulation of up to –65 °C;
- reinforcement of HV windings with grid on both sides;
- protection degree is IP31;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDA06BDYN1BB000
	10	2232	2200	1532	300	TDA06ADYN1BB000
800	6	2232	2200	1532	300	TDA08BDYN1BB000
	10	2232	2200	1532	300	TDA08ADYN1BB000
1000	6	2232	2435	1532	350	TDA10BDYN1BB000
	10	2232	2435	1532	350	TDA10ADYN1BB000
1250	6	2232	2435	1532	350	TDA13BDYN1BB000
	10	2232	2435	1532	350	TDA13ADYN1BB000
1600	6	2232	2885	1532	400	TDA16BDYN1BB000
	10	2232	2885	1532	400	TDA16ADYN1BB000
2000	6	2232	2885	1532	400	TDA20BDYN1BB000
	10	2232	2885	1532	400	TDA20ADYN1BB000
2500	6	2632	2885	1632	450	TDA25BDYN1BB000
	10	2632	2885	1632	450	TDA25ADYN1BB000
3150	6	2632	2885	1632	450	TDA32BDYN1BB000
	10	2632	2885	1632	450	TDA32ADYN1BB000

## Coding of designs

BJ	with operation allowance over 1000 m above the sea level
BL	with forced ventilation
BM	with antivibration supports
BN	seismic design
EH	with operation allowance over 1000 m above the sea level, side outlets
EJ	with forced ventilation, side outlets
EK	with antivibration supports, side outlets
EL	seismic design, side outlets
FX	side outlets
GO	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
HP	with antivibration supports, with forced ventilation
HR	with antivibration supports, seismic resistance, with forced ventilation, with operation allowance at extremely low temperatures (up to –65 °C)
HS	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, with addition of protection box IP31
HU	with antivibration supports, with forced ventilation, side outlets
HW	with antivibration supports, seismic resistance, with forced ventilation, side outlets
HX	with antivibration supports, seismic resistance, with forced ventilation, with class H insulation, side outlets



# **HERCULES**

## **Transformers with decreased losses**

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## Technical data

### Technical data on transformers with decreased losses and aluminum windings 100–3150 kVa

Power, kVA	Short-circuit voltage, %	No load loss, W	Load loss at 75 °C, W	No load current, %	$\Delta V$ % (75°C)		$\eta$ efficiency at 75 °C					
					100% load, $\cos\phi$		$\cos\phi$ 0.9			$\cos\phi$ 1.00		
					0.9	1	50 %	75 %	100 %	50 %	75 %	100 %
100	6	280	1800	0.30	4.25	1.97	98.40	98.12	97.74	98.56	98.31	97.96
160	6	400	2600	0.30	4.11	1.80	98.56	98.30	97.96	98.70	98.47	98.16
200	6	453	2956	0.30	4.00	1.65	98.69	98.46	98.14	98.82	98.61	98.32
250	6	520	3400	0.30	3.91	1.54	98.80	98.58	98.29	98.92	98.72	98.46
315	6	620	3877	0.30	3.81	1.41	98.89	98.70	98.44	99.00	98.83	98.59
400	6	750	4500	0.30	3.73	1.30	98.97	98.80	98.56	99.07	98.92	98.70
500	6	902	5630	0.30	3.73	1.30	98.98	98.81	98.57	99.08	98.93	98.71
630	6	1100	7100	0.30	3.73	1.30	99.00	98.82	98.57	99.10	98.93	98.71
800	6	1300	8000	0.30	3.63	1.18	99.09	98.94	98.72	99.18	99.04	98.85
1000	6	1550	9000	0.30	3.54	1.08	99.16	99.03	98.84	99.25	99.13	98.96
1250	6	1800	11000	0.30	3.53	1.06	99.20	99.06	98.88	99.28	99.16	98.99
1600	6	2200	13000	0.30	3.47	0.99	99.25	99.13	98.96	99.32	99.21	99.06
2000	6	2600	16000	0.30	3.46	0.98	99.27	99.15	98.98	99.34	99.23	99.08
2500	6	3100	19000	0.30	3.43	0.94	99.31	99.19	99.03	99.38	99.27	99.12
3150	6	3800	22000	0.30	3.38	0.88	99.35	99.25	99.10	99.41	99.32	99.19
Protection degree (without a box)		IP00										
Protection degree (with a box)		IP21 - 31										
Warranty period		3 years										
Service life before replacement		30 years										

### Dimensions and weights of transformers IP00 with decreased losses and aluminum windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Wheels			Weight, kg
				diameter, mm	width, mm	distance, mm	
100	995	1185	710	125	40	520	530
160	1100	1145	730	125	40	520	670
200	1145	1360	735	125	40	520	850
250	1085	1389	734	125	40	670	920
315	1133	1529	818	125	40	670	1130
400	1190	1539	862	125	40	670	1285
500	1265	1589	836	125	40	670	1480
630	1355	1601	855	125	40	670	1700
800	1355	1853	855	125	40	670	1990
1000	1481	1825	966	160	50	820	2240
1250	1484	1995	973	160	50	820	2650
1600	1526	2095	978	160	50	820	2959
2000	1625	2216	1270	200	70	1070	3650
2500	1790	2276	1270	200	70	1070	4400
3150	1904	2336	1270	200	70	1070	5007

## Dimensions and weights of transformers IP31 with decreased losses and aluminum windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Weight, kg
100	1852	1597	1332	200
160	1852	1597	1332	200
200	1852	1597	1332	200
250	1852	1899	1532	250
315	1852	1899	1532	250
400	1852	1899	1532	250
500	2232	2200	1532	300
630	2232	2200	1532	300
800	2232	2200	1532	300
1000	2232	2435	1532	350
1250	2232	2435	1532	350
1600	2232	2885	1532	400
2000	2232	2885	1532	400
2500	2632	2885	1632	450
3150	2632	2885	1632	450

## Technical data on transformers with decreased losses and copper windings 100–3150 kVa

Power, kVA	Short-circuit voltage, %	No load loss, W	Load loss at 75 °C, W	No load current, %	$\Delta V$ % (75°C)		$\eta$ efficiency at 75°C					
					100% load, $\cos\phi$		$\cos\phi$ 0.9			$\cos\phi$ 1.00		
					0.9	1	50 %	75 %	100 %	50 %	75 %	100 %
100	6	280	1800	0.30	4.25	1.97	98.40	98.12	97.74	98.56	98.31	97.96
160	6	400	2600	0.30	4.11	1.80	98.56	98.30	97.96	98.70	98.47	98.16
200	6	453	2956	0.30	4.00	1.65	98.69	98.46	98.14	98.82	98.61	98.32
250	6	520	3400	0.30	3.91	1.54	98.80	98.58	98.29	98.92	98.72	98.46
315	6	620	3877	0.30	3.81	1.41	98.89	98.70	98.44	99.00	98.83	98.59
400	6	750	4500	0.30	3.73	1.30	98.97	98.80	98.56	99.07	98.92	98.70
500	6	902	5630	0.30	3.73	1.30	98.98	98.81	98.57	99.08	98.93	98.71
630	6	1100	7100	0.30	3.73	1.30	99.00	98.82	98.57	99.10	98.93	98.71
800	6	1300	8000	0.30	3.63	1.18	99.09	98.94	98.72	99.18	99.04	98.85
1000	6	1550	9000	0.30	3.54	1.08	99.16	99.03	98.84	99.25	99.13	98.96
1250	6	1800	11000	0.30	3.53	1.06	99.20	99.06	98.88	99.28	99.16	98.99
1600	6	2200	13000	0.30	3.47	0.99	99.25	99.13	98.96	99.32	99.21	99.06
2000	6	2600	16000	0.30	3.46	0.98	99.27	99.15	98.98	99.34	99.23	99.08
2500	6	3100	19000	0.30	3.43	0.94	99.31	99.19	99.03	99.38	99.27	99.12
3150	6	3800	22000	0.30	3.38	0.88	99.35	99.25	99.10	99.41	99.32	99.19
Protection degree (without a box)		IP00										
Protection degree (with a box)		IP21 - 31										
Warranty period		3 years										
Service life before replacement		30 years										

## Dimensions and weights of transformers IP00 with decreased losses and copper windings

Power, kVA	Width, mm	Height, mm	Depth, mm	Wheels			Weight, kg
				diameter, mm	width, mm	distance, mm	
100	995	1185	710	125	40	520	530
160	1100	1145	730	125	40	520	670
200	1145	1360	735	125	40	520	850
250	1085	1389	734	125	40	670	920
315	1133	1529	818	125	40	670	1130
400	1190	1539	862	125	40	670	1285
500	1265	1589	836	125	40	670	1480
630	1355	1601	855	125	40	670	1700
800	1355	1853	855	125	40	670	1990
1000	1481	1825	966	160	50	820	2240
1250	1484	1995	973	160	50	820	2650
1600	1526	2095	978	160	50	820	2959
2000	1625	2216	1270	200	70	1070	3650
2500	1790	2276	1270	200	70	1070	4400
3150	1904	2336	1270	200	70	1070	5007



## Transformers with decreased losses 100–500 kVA

## Transformers with decreased losses and aluminum windings 100–500 kVA

**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- decreased losses;
- power is 100–500 kVA;
- protection degree is IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDA01BDYN1AE000
	10	6	420	2350	1.2	TDA01ADYN1AE000
160	6	6	570	3100	0.9	TDA02BDYN1AE000
	10	6	570	3100	0.9	TDA02ADYN1AE000
250	6	6	750	4350	0.9	TDA03BDYN1AE000
	10	6	750	4350	0.9	TDA03ADYN1AE000
400	6	6	1100	4850	0.7	TDA04BDYN1AE000
	10	6	1100	4850	0.7	TDA04ADYN1AE000
500	6	6	1300	6000	0.7	TDA05BDYN1AE000
	10	6	1300	6000	0.7	TDA05ADYN1AE000

## Coding of designs

AO	with operation allowance over 1000 m above the sea level
AT	with forced ventilation
AU	with antivibration supports
AV	with class H insulation
AW	seismic design
CI	with operation allowance over 1000 m above the sea level, with forced ventilation
CM	with forced ventilation, with antivibration supports
CN	with class H insulation, with antivibration supports
CO	seismic design, with antivibration supports

## Transformers with decreased losses and aluminum windings 100-500 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- decreased losses;
- power is 100–500 kVA;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDA01BDYN1BE000
	10	1852	1597	1332	200	TDA01ADYN1BE000
160	6	1852	1597	1332	200	TDA02BDYN1BE000
	10	1852	1597	1332	200	TDA02ADYN1BE000
250	6	1852	1899	1532	250	TDA03BDYN1BE000
	10	1852	1899	1532	250	TDA03ADYN1BE000
400	6	1852	1899	1532	250	TDA04BDYN1BE000
	10	1852	1899	1532	250	TDA04ADYN1BE000
500	6	2232	2200	1532	300	TDA05BDYN1BE000
	10	2232	2200	1532	300	TDA05ADYN1BE000

## Coding of designs

BO	with operation allowance over 1000 m above the sea level
BT	with forced ventilation
BU	with antivibration supports
BV	with class H insulation
BW	seismic design
DK	with operation allowance over 1000 m above the sea level and forced ventilation
DO	with antivibration supports and forced ventilation
DP	with antivibration supports and class H insulation
DQ	with antivibration supports and seismic design
EM	with operation allowance over 1000 m above the sea level, side outlets
ER	with forced ventilation, side outlets
ES	with antivibration supports, side outlets
ET	with class H insulation, side outlets
EU	seismic design, side outlets
FF	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FJ	with forced ventilation, with antivibration supports, side outlets
FK	with class H insulation, with antivibration supports, side outlets
FL	seismic design, with antivibration supports, side outlets
FZ	side outlets
GE	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GF	seismic design, side outlets, with operation allowance over 1000 m above the sea level

GG	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GH	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GI	with forced ventilation, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GJ	with forced ventilation, with class H insulation, side outlets, with operation allowance over 1000 m above the sea level
GK	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GL	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GM	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GR	with antivibration supports, with operation allowance over 1000 m above the sea level
GS	seismic resistance, with operation allowance over 1000 m above the sea level
GT	with class H insulation, with operation allowance over 1000 m above the sea level
GU	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GV	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports
GW	with antivibration supports, with operation allowance over 1000 m above the sea level
GX	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HA	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HB	seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HC	with class H insulation, with operation allowance over 1000 m above the sea level, with forced ventilation
HD	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HE	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation
HG	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

## Transformers with decreased losses and copper windings 100–500 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

### Characteristics:

- decreased losses;
- power is 100–500 kVA;
- protection degree is IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDC01BDYN1AE000
	10	6	420	2350	1.2	TDC01ADYN1AE000
160	6	6	570	3100	0.9	TDC02BDYN1AE000
	10	6	570	3100	0.9	TDC02ADYN1AE000
250	6	6	750	4350	0.9	TDC03BDYN1AE000
	10	6	750	4350	0.9	TDC03ADYN1AE000
400	6	6	1100	4850	0.7	TDC04BDYN1AE000
	10	6	1100	4850	0.7	TDC04ADYN1AE000
500	6	6	1300	6000	0.7	TDC05BDYN1AE000
	10	6	1300	6000	0.7	TDC05ADYN1AE000

## Coding of designs

AO	with operation allowance over 1000 m above the sea level
AT	with forced ventilation
AU	with antivibration supports
AV	with class H insulation
AW	seismic design
CI	with operation allowance over 1000 m above the sea level and forced ventilation
CM	with antivibration supports and forced ventilation
CN	with antivibration supports and class H insulation
CO	with antivibration supports and seismic design

## Transformers with decreased losses and copper windings 100–500 kVA with box IP31

**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

**Characteristics:**

- decreased losses;
- power is 100–500 kVA;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDC01BDYN1BE000
	10	1852	1597	1332	200	TDC01ADYN1BE000
160	6	1852	1597	1332	200	TDC02BDYN1BE000
	10	1852	1597	1332	200	TDC02ADYN1BE000
250	6	1852	1899	1532	250	TDC03BDYN1BE000
	10	1852	1899	1532	250	TDC03ADYN1BE000
400	6	1852	1899	1532	250	TDC04BDYN1BE000
	10	1852	1899	1532	250	TDC04ADYN1BE000
500	6	2232	2200	1532	300	TDC05BDYN1BE000
	10	2232	2200	1532	300	TDC05ADYN1BE000

## Coding of designs

BO	with operation allowance over 1000 m above the sea level
BT	with forced ventilation
BU	with antivibration supports
BV	with class H insulation
BW	seismic design
DK	with operation allowance over 1000 m above the sea level and forced ventilation
DO	with antivibration supports and forced ventilation
DP	with antivibration supports and class H insulation
DQ	with antivibration supports and seismic design
EM	with operation allowance over 1000 m above the sea level, side outlets
ER	with forced ventilation, side outlets
ES	with antivibration supports, side outlets
ET	with class H insulation, side outlets
EU	seismic design, side outlets
FF	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FJ	with forced ventilation, with antivibration supports, side outlets
FK	with class H insulation, with antivibration supports, side outlets
FL	seismic design, with antivibration supports, side outlets
FZ	side outlets

GE	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GF	seismic design, side outlets, with operation allowance over 1000 m above the sea level
GG	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GH	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GI	with forced ventilation, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GJ	with forced ventilation, with class H insulation, side outlets, with operation allowance over 1000 m above the sea level
GK	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GL	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GM	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GR	with antivibration supports, with operation allowance over 1000 m above the sea level
GS	seismic resistance, with operation allowance over 1000 m above the sea level
GT	with class H insulation, with operation allowance over 1000 m above the sea level
GU	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GV	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports
GW	with antivibration supports, with operation allowance over 1000 m above the sea level
GX	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HA	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HB	seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HC	with class H insulation, with operation allowance over 1000 m above the sea level, with forced ventilation
HD	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HE	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation
HG	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

## Transformers with decreased losses and polymer insulation of windings 100–500 kVA

**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- decreased losses;
- power is 100–500 kVA;
- protection degree is IP00;
- polymeric "wollastonite" insulation of up to –65 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
100	6	6	420	2350	1.2	TDA01BDYN1AK000
	10	6	420	2350	1.2	TDA01ADYN1AK000
160	6	6	570	3100	0.9	TDA02BDYN1AK000
	10	6	570	3100	0.9	TDA02ADYN1AK000
250	6	6	750	4350	0.9	TDA03BDYN1AK000
	10	6	750	4350	0.9	TDA03ADYN1AK000
400	6	6	1100	4850	0.7	TDA04BDYN1AK000
	10	6	1100	4850	0.7	TDA04ADYN1AK000
500	6	6	1300	6000	0.7	TDA05BDYN1AK000
	10	6	1300	6000	0.7	TDA05ADYN1AK000

## Coding of designs

CE	with operation allowance over 1000 m above the sea level
CF	with forced ventilation
CG	with antivibration supports
CH	seismic design
CS	with forced ventilation and operation allowance over 1000 m above the sea level
CT	with forced ventilation and antivibration supports
CU	with forced ventilation and seismic design
CV	with forced ventilation, antivibration supports and operation allowance over 1000 m above the sea level
CW	with forced ventilation, antivibration supports and seismic design
CX	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level and class H insulation
CY	with forced ventilation, antivibration supports, seismic design and class H insulation
CZ	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level, class H insulation and seismic design

### Transformers with decreased losses and polymer insulation of windings 100–500 kVA with box IP31



**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

**Characteristics:**

- decreased losses;
- power is 100–500 kVA;
- polymeric "wollastonite" insulation of up to –65 °C;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
100	6	1852	1850	1332	200	TDA01BDYN1BK000
	10	1852	1597	1332	200	TDA01ADYN1BK000
160	6	1852	1597	1332	200	TDA02BDYN1BK000
	10	1852	1597	1332	200	TDA02ADYN1BK000
250	6	1852	1899	1532	250	TDA03BDYN1BK000
	10	1852	1899	1532	250	TDA03ADYN1BK000
400	6	1852	1899	1532	250	TDA04BDYN1BK000
	10	1852	1899	1532	250	TDA04ADYN1BK000
500	6	2232	2200	1532	300	TDA05BDYN1BK000
	10	2232	2200	1532	300	TDA05ADYN1BK000



## Coding of designs

DG	with operation allowance over 1000 m above the sea level
DH	with forced ventilation
DI	with antivibration supports
DJ	seismic design
DU	with forced ventilation and operation allowance over 1000 m above the sea level
DV	with forced ventilation and antivibration supports
DW	with forced ventilation and seismic design
DX	with forced ventilation, antivibration supports and operation allowance over 1000 m above the sea level
DY	with forced ventilation, antivibration supports and seismic design
DZ	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level and class H insulation
EE	with forced ventilation, antivibration supports, seismic design and class H insulation
EF	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level, class H insulation and seismic design
EI	side outlets
FB	with operation allowance over 1000 m above the sea level, side outlets
FC	with forced ventilation, side outlets
FD	with antivibration supports, side outlets
FE	seismic design, side outlets
FP	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FQ	with antivibration supports, with forced ventilation, side outlets
FR	seismic design, with forced ventilation, side outlets
FS	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, side outlets
FT	seismic design, with forced ventilation, with antivibration supports, side outlets
FU	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, with class H insulation, side outlets
FV	seismic design, with forced ventilation, with antivibration supports, with class H insulation, side outlets
FW	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, with class H insulation, seismic resistance, side outlets
GN	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GY	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GZ	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HF	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HH	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HI	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

## Transformers with decreased losses 630–3150 kVA

### Transformers with decreased losses and aluminum windings 630–3150 kVA


**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- decreased losses;
- power is 630–3150 kVA;
- protection degree is IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDA06BDYN1AE000
	10	6	1650	6900	0.7	TDA06ADYN1AE000
800	6	6	1900	8500	0.6	TDA08BDYN1AE000
	10	6	1900	8500	0.6	TDA08ADYN1AE000
1000	6	6	2300	10100	0.6	TDA10BDYN1AE000
	10	6	2300	10100	0.6	TDA10ADYN1AE000
1250	6	6	2700	11600	0.6	TDA13BDYN1AE000
	10	6	2700	11600	0.6	TDA13ADYN1AE000
1600	6	6	2900	14000	0.6	TDA16BDYN1AE000
	10	6	2900	14000	0.6	TDA16ADYN1AE000
2000	6	6	4000	17000	0.6	TDA20BDYN1AE000
	10	6	4000	17000	0.6	TDA20ADYN1AE000
2500	6	6	4500	19000	0.6	TDA25BDYN1AE000
	10	6	4500	19000	0.6	TDA25ADYN1AE000
3150	6	6	5600	22000	0.6	TDA32BDYN1AE000
	10	6	5600	22000	0.6	TDA32ADYN1AE000

### Coding of designs

AO	with operation allowance over 1000 m above the sea level
AT	with forced ventilation
AU	with antivibration supports
AV	with class H insulation
AW	seismic design
CI	with operation allowance over 1000 m above the sea level and forced ventilation
CM	with antivibration supports and forced ventilation
CN	with antivibration supports and class H insulation
CO	with antivibration supports and seismic design

## Transformers with decreased losses and aluminum windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- decreased losses;
- power is 630–3150 kVA;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDA06BDYN1BE000
	10	2232	2200	1532	300	TDA06ADYN1BE000
800	6	2232	2200	1532	300	TDA08BDYN1BE000
	10	2232	2200	1532	300	TDA08ADYN1BE000
1000	6	2232	2435	1532	350	TDA10BDYN1BE000
	10	2232	2435	1532	350	TDA10ADYN1BE000
1250	6	2232	2435	1532	350	TDA13BDYN1BE000
	10	2232	2435	1532	350	TDA13ADYN1BE000
1600	6	2232	2885	1532	400	TDA16BDYN1BE000
	10	2232	2885	1532	400	TDA16ADYN1BE000
2000	6	2232	2885	1532	400	TDA20BDYN1BE000
	10	2232	2885	1532	400	TDA20ADYN1BE000
2500	6	2632	2885	1632	450	TDA25BDYN1BE000
	10	2632	2885	1632	450	TDA25ADYN1BE000
3150	6	2632	2885	1632	450	TDA32BDYN1BE000
	10	2632	2885	1632	450	TDA32ADYN1BE000

## Coding of designs

BO	with operation allowance over 1000 m above the sea level
BT	with forced ventilation
BU	with antivibration supports
BV	with class H insulation
BW	seismic design
DK	with operation allowance over 1000 m above the sea level and forced ventilation
DO	with antivibration supports and forced ventilation
DP	with antivibration supports and class H insulation
DQ	with antivibration supports and seismic design
EM	with operation allowance over 1000 m above the sea level, side outlets
ER	with forced ventilation, side outlets
ES	with antivibration supports, side outlets

ET	with class H insulation, side outlets
EU	seismic design, side outlets
FF	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FJ	with forced ventilation, with antivibration supports, side outlets
FK	with class H insulation, with antivibration supports, side outlets
FL	seismic design, with antivibration supports, side outlets
FZ	side outlets
GE	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GF	seismic design, side outlets, with operation allowance over 1000 m above the sea level
GG	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GH	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GI	with forced ventilation, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GJ	with forced ventilation, with class H insulation, side outlets, with operation allowance over 1000 m above the sea level
GK	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GL	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GM	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GR	with antivibration supports, with operation allowance over 1000 m above the sea level
GS	seismic resistance, with operation allowance over 1000 m above the sea level
GT	with class H insulation, with operation allowance over 1000 m above the sea level
GU	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GV	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports
GW	with antivibration supports, with operation allowance over 1000 m above the sea level
GX	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HA	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HB	seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HC	with class H insulation, with operation allowance over 1000 m above the sea level, with forced ventilation
HD	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HE	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation
HG	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

## Transformers with decreased losses and copper windings 630–3150 kVA

**Purpose:**

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency.

**Characteristics:**

- decreased losses;
- power is 100–500 kVA;
- protection degree is IP00;
- class F insulation of up to 155 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with copper wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDC06BDYN1AE000
	10	6	1650	6900	0.7	TDC06ADYN1AE000
800	6	6	1900	8500	0.6	TDC08BDYN1AE000
	10	6	1900	8500	0.6	TDC08ADYN1AE000
1000	6	6	2300	10100	0.6	TDC10BDYN1AE000
	10	6	2300	10100	0.6	TDC10ADYN1AE000
1250	6	6	2700	11600	0.6	TDC13BDYN1AE000
	10	6	2700	11600	0.6	TDC13ADYN1AE000
1600	6	6	2900	14000	0.6	TDC16BDYN1AE000
	10	6	2900	14000	0.6	TDC16ADYN1AE000
2000	6	6	4000	17000	0.6	TDC20BDYN1AE000
	10	6	4000	17000	0.6	TDC20ADYN1AE000
2500	6	6	4500	19000	0.6	TDC25BDYN1AE000
	10	6	4500	19000	0.6	TDC25ADYN1AE000
3150	6	6	5600	22000	0.6	TDC32BDYN1AE000
	10	6	5600	22000	0.6	TDC32ADYN1AE000

## Coding of designs

AO	with operation allowance over 1000 m above the sea level
AT	with forced ventilation
AU	with antivibration supports
AV	with class H insulation
AW	seismic design
CI	with operation allowance over 1000 m above the sea level and forced ventilation
CM	with antivibration supports and forced ventilation
CN	with antivibration supports and class H insulation
CO	with antivibration supports and seismic design

## Transformers with decreased losses and copper windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- decreased losses;
- power is 630–3150 kVA;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides.
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDC06BDYN1BE000
	10	2232	2200	1532	300	TDC06ADYN1BE000
800	6	2232	2200	1532	300	TDC08BDYN1BE000
	10	2232	2200	1532	300	TDC08ADYN1BE000
1000	6	2232	2435	1532	350	TDC10BDYN1BE000
	10	2232	2435	1532	350	TDC10ADYN1BE000
1250	6	2232	2435	1532	350	TDC13BDYN1BE000
	10	2232	2435	1532	350	TDC13ADYN1BE000
1600	6	2232	2885	1532	400	TDC16BDYN1BE000
	10	2232	2885	1532	400	TDC16ADYN1BE000
2000	6	2232	2885	1532	400	TDC20BDYN1BE000
	10	2232	2885	1532	400	TDC20ADYN1BE000
2500	6	2632	2885	1632	450	TDC25BDYN1BE000
	10	2632	2885	1632	450	TDC25ADYN1BE000
3150	6	2632	2885	1632	450	TDC32BDYN1BE000
	10	2632	2885	1632	450	TDC32ADYN1BE000

## Coding of designs

BO	with operation allowance over 1000 m above the sea level
BT	with forced ventilation
BU	with antivibration supports
BV	with class H insulation
BW	seismic design
DK	with operation allowance over 1000 m above the sea level and forced ventilation
DO	with antivibration supports and forced ventilation
DP	with antivibration supports and class H insulation
DQ	with antivibration supports and seismic design
EM	with operation allowance over 1000 m above the sea level, side outlets
ER	with forced ventilation, side outlets
ES	with antivibration supports, side outlets
ET	with class H insulation, side outlets
EU	seismic design, side outlets
FF	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FJ	with forced ventilation, with antivibration supports, side outlets

FK	with class H insulation, with antivibration supports, side outlets
FL	seismic design, with antivibration supports, side outlets
FZ	side outlets
GE	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GF	seismic design, side outlets, with operation allowance over 1000 m above the sea level
GG	with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GH	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level
GI	with forced ventilation, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GJ	with forced ventilation, with class H insulation, side outlets, with operation allowance over 1000 m above the sea level
GK	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level
GL	with forced ventilation, with antivibration supports, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GM	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GR	with antivibration supports, with operation allowance over 1000 m above the sea level
GS	seismic resistance, with operation allowance over 1000 m above the sea level
GT	with class H insulation, with operation allowance over 1000 m above the sea level
GU	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GV	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports
GW	with antivibration supports, with operation allowance over 1000 m above the sea level
GX	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HA	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HB	seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HC	with class H insulation, with operation allowance over 1000 m above the sea level, with forced ventilation
HD	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HE	with class H insulation, with operation allowance over 1000 m above the sea level, with antivibration supports, with forced ventilation
HG	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

## Transformers with decreased losses and polymer insulation of windings 630–3150 kVA



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency by electromagnetic induction.

### Characteristics:

- decreased losses;
- power is 630–3150 kVA;
- protection degree is IP00;
- polymeric "wollastonite" insulation of up to –65 °C;
- magnetic core is made of electrical steel according to system Step-Lap with double laser cut, covered with antirust lacquer;
- HV/LV windings with aluminum wire are embedded and baked in the autoclave;
- reinforcement of HV windings with grid on both sides.

Power, kVA	Voltage, kV	Short-circuit voltage, %	Loss XX, W	Load loss at 75 °C, W	Current XX, %	Code
630	6	6	1650	6900	0.7	TDA06BDYN1AK000
	10	6	1650	6900	0.7	TDA06ADYN1AK000
800	6	6	1900	8500	0.6	TDA08BDYN1AK000
	10	6	1900	8500	0.6	TDA08ADYN1AK000
1000	6	6	2300	10100	0.6	TDA10BDYN1AK000
	10	6	2300	10100	0.6	TDA10ADYN1AK000
1250	6	6	2700	11600	0.6	TDA13BDYN1AK000
	10	6	2700	11600	0.6	TDA13ADYN1AK000
1600	6	6	2900	14000	0.6	TDA16BDYN1AK000
	10	6	2900	14000	0.6	TDA16ADYN1AK000
2000	6	6	4000	17000	0.6	TDA20BDYN1AK000
	10	6	4000	17000	0.6	TDA20ADYN1AK000
2500	6	6	4500	19000	0.6	TDA25BDYN1AK000
	10	6	4500	19000	0.6	TDA25ADYN1AK000
3150	6	6	5600	22000	0.6	TDA32BDYN1AK000
	10	6	5600	22000	0.6	TDA32ADYN1AK000

### Coding of designs

CE	with operation allowance over 1000 m above the sea level
CF	with forced ventilation
CG	with antivibration supports
CH	seismic design
CS	with forced ventilation and operation allowance over 1000 m above the sea level
CT	with forced ventilation and antivibration supports
CU	with forced ventilation and seismic design
CV	with forced ventilation, antivibration supports and operation allowance over 1000 m above the sea level
CW	with forced ventilation, antivibration supports and seismic design
CX	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level and class H insulation
CY	with forced ventilation, antivibration supports, seismic design and class H insulation
CZ	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level, class H insulation and seismic design



## Transformers with decreased losses and polymer insulation of windings 630–3150 kVA with box IP31



### Purpose:

- conversion of alternating-current voltage and current value in another alternating-current voltage and current value of the same frequency;
- transformer protection against moisture and dust.

### Characteristics:

- decreased losses;
- power is 630–3150 kVA;
- polymeric "wollastonite" insulation of up to –65 °C;
- class F insulation of up to 155 °C, without halogens;
- reinforcement of HV windings with grid on both sides;
- material is steel.

Power, kVA	Voltage, kV	Width, mm	Height, mm	Length, mm	Weight, kg	Code
630	6	2232	2200	1532	300	TDA06BDYN1BK000
	10	2232	2200	1532	300	TDA06ADYN1BK000
800	6	2232	2200	1532	300	TDA08BDYN1BK000
	10	2232	2200	1532	300	TDA08ADYN1BK000
1000	6	2232	2435	1532	350	TDA10BDYN1BK000
	10	2232	2435	1532	350	TDA10ADYN1BK000
1250	6	2232	2435	1532	350	TDA13BDYN1BK000
	10	2232	2435	1532	350	TDA13ADYN1BK000
1600	6	2232	2885	1532	400	TDA16BDYN1BK000
	10	2232	2885	1532	400	TDA16ADYN1BK000
2000	6	2232	2885	1532	400	TDA20BDYN1BK000
	10	2232	2885	1532	400	TDA20ADYN1BK000
2500	6	2632	2885	1632	450	TDA25BDYN1BK000
	10	2632	2885	1632	450	TDA25ADYN1BK000
3150	6	2632	2885	1632	450	TDA32BDYN1BK000
	10	2632	2885	1632	450	TDA32ADYN1BK000

### Coding of designs

DG	with operation allowance over 1000 m above the sea level
DH	with forced ventilation
DI	with antivibration supports
DJ	seismic design
DU	with forced ventilation and operation allowance over 1000 m above the sea level
DV	with forced ventilation and antivibration supports
DW	with forced ventilation and seismic design
DX	with forced ventilation, antivibration supports and operation allowance over 1000 m above the sea level
DY	with forced ventilation, antivibration supports and seismic design
DZ	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level and class H insulation
EE	with forced ventilation, antivibration supports, seismic design and class H insulation
EF	with forced ventilation, antivibration supports, operation allowance over 1000 m above the sea level, class H insulation and seismic design
EI	side outlets
FB	with operation allowance over 1000 m above the sea level, side outlets

FC	with forced ventilation, side outlets
FD	with antivibration supports, side outlets
FE	seismic design, side outlets
FP	with operation allowance over 1000 m above the sea level, with forced ventilation, side outlets
FQ	with antivibration supports, with forced ventilation, side outlets
FR	seismic design, with forced ventilation, side outlets
FS	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, side outlets
FT	seismic design, with forced ventilation, with antivibration supports, side outlets
FU	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, with class H insulation, side outlets
FV	seismic design, with forced ventilation, with antivibration supports, with class H insulation, side outlets
FW	with operation allowance over 1000 m above the sea level, with forced ventilation, with antivibration supports, with class H insulation, seismic resistance, side outlets
GN	with forced ventilation, with antivibration supports, seismic design, side outlets, with operation allowance over 1000 m above the sea level, with class H insulation
GY	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level
GZ	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation
HF	with antivibration supports, with operation allowance over 1000 m above the sea level, with forced ventilation
HH	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with forced ventilation
HI	with antivibration supports, seismic resistance, with operation allowance over 1000 m above the sea level, with class H insulation, with forced ventilation

Reference codes

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DTA16EFED1AA	50	DTA16GSP02FB	43	DTA25GSP0115	43	DTA40GHEL2AA	45
DTA16EFED2AA	51	DTA16GTST1AA	48	DTA25GSP0120	43	DTA40GHEL3AA	45
DTA16EHEL1AA	44	DTA16GTST2AA	49	DTA25GSP0125	43	DTA40GHEL3FB	45
DTA16EHEL2AA	45	DTA16GTST3AA	49	DTA25GSP0130	43	DTA40GHEL4AA	45
DTA16EHEL3AA	45	DTA16GTST4AA	49	DTA25GSP01AA	43	DTA40GHEL4FB	45
DTA16EHEL3FB	45	DTA16GVEL1AA	46	DTA25GSP01FB	43	DTA40GSEF1AA	42
DTA16EHEL4AA	45	DTA16GVEL2AA	47	DTA25GSP0215	43	DTA40GSEF215	42
DTA16EHEL4FB	45	DTA16GVEL3AA	47	DTA25GSP0220	43	DTA40GSEF220	42
DTA16ESEF1AA	42	DTA16GVEL3FB	47	DTA25GSP0225	43	DTA40GSEF225	42
DTA16ESEF215	42	DTA16GVEL4AA	47	DTA25GSP0230	43	DTA40GSEF230	42
DTA16ESEF220	42	DTA16GVEL4FB	47	DTA25GSP02AA	43	DTA40GSEF2FB	42
DTA16ESEF225	42	DTA25EFED1AA	50	DTA25GSP02FB	43	DTA40GSP0115	43
DTA16ESEF230	42	DTA25EFED2AA	51	DTA25GTST1AA	48	DTA40GSP0120	43
DTA16ESEF2FB	42	DTA25EHEL1AA	44	DTA25GTST2AA	49	DTA40GSP0125	43
DTA16ESP0115	43	DTA25EHEL2AA	45	DTA25GTST3AA	49	DTA40GSP0130	43
DTA16ESP0120	43	DTA25EHEL3AA	45	DTA25GTST4AA	49	DTA40GSP01AA	43
DTA16ESP0125	43	DTA25EHEL3FB	45	DTA25GVEL1AA	46	DTA40GSP01FB	43
DTA16ESP0130	43	DTA25EHEL4AA	45	DTA25GVEL2AA	47	DTA40GSP0215	43
DTA16ESP01AA	43	DTA25EHEL4FB	45	DTA25GVEL3AA	47	DTA40GSP0220	43
DTA16ESP01FB	43	DTA25ESEF1AA	42	DTA25GVEL3FB	47	DTA40GSP0225	43
DTA16ESP0215	43	DTA25ESEF215	42	DTA25GVEL4AA	47	DTA40GSP0230	43
DTA16ESP0220	43	DTA25ESEF220	42	DTA25GVEL4FB	47	DTA40GSP02AA	43
DTA16ESP0225	43	DTA25ESEF225	42	DTA40EFED1AA	50	DTA40GSP02FB	43
DTA16ESP0230	43	DTA25ESEF230	42	DTA40EFED2AA	51	DTA40GTST1AA	48
DTA16ESP02AA	43	DTA25ESEF2FB	42	DTA40EHEL1AA	44	DTA40GTST2AA	49
DTA16ESP02FB	43	DTA25ESP0115	43	DTA40EHEL2AA	45	DTA40GTST3AA	49
DTA16ETST1AA	48	DTA25ESP0120	43	DTA40EHEL3AA	45	DTA40GTST4AA	49
DTA16ETST2AA	49	DTA25ESP0125	43	DTA40EHEL3FB	45	DTA40GVEL1AA	46
DTA16ETST3AA	49	DTA25ESP0130	43	DTA40EHEL4AA	45	DTA40GVEL2AA	47
DTA16ETST4AA	49	DTA25ESP01AA	43	DTA40EHEL4FB	45	DTA40GVEL3AA	47
DTA16EVEL1AA	46	DTA25ESP01FB	43	DTA40ESEF1AA	42	DTA40GVEL3FB	47
DTA16EVEL2AA	47	DTA25ESP0215	43	DTA40ESEF215	42	DTA40GVEL4AA	47
DTA16EVEL3AA	47	DTA25ESP0220	43	DTA40ESEF220	42	DTA40GVEL4FB	47
DTA16EVEL3FB	47	DTA25ESP0225	43	DTA40ESEF225	42	DTA50EFED1AA	50
DTA16EVEL4AA	47	DTA25ESP0230	43	DTA40ESEF230	42	DTA50EFED2AA	51
DTA16EVEL4FB	47	DTA25ESP02AA	43	DTA40ESEF2FB	42	DTA50EHEL1AA	44
DTA16GFED1AA	50	DTA25ESP02FB	43	DTA40ESP0115	43	DTA50EHEL2AA	45
DTA16GFED2AA	51	DTA25ETST1AA	48	DTA40ESP0120	43	DTA50EHEL3AA	45
DTA16GHEL1AA	44	DTA25ETST2AA	49	DTA40ESP0125	43	DTA50EHEL3FB	45
DTA16GHEL2AA	45	DTA25ETST3AA	49	DTA40ESP0130	43	DTA50EHEL4AA	45
DTA16GHEL3AA	45	DTA25ETST4AA	49	DTA40ESP01AA	43	DTA50EHEL4FB	45
DTA16GHEL3FB	45	DTA25EVEL1AA	46	DTA40ESP01FB	43	DTA50ESEF1AA	42
DTA16GHEL4AA	45	DTA25EVEL2AA	47	DTA40ESP0215	43	DTA50ESEF215	42
DTA16GHEL4FB	45	DTA25EVEL3AA	47	DTA40ESP0220	43	DTA50ESEF220	42
DTA16GSEF1AA	42	DTA25EVEL3FB	47	DTA40ESP0225	43	DTA50ESEF225	42
DTA16GSEF215	42	DTA25EVEL4AA	47	DTA40ESP0230	43	DTA50ESEF230	42
DTA16GSEF220	42	DTA25EVEL4FB	47	DTA40ESP02AA	43	DTA50ESEF2FB	42
DTA16GSEF225	42	DTA25GFED1AA	50	DTA40ESP02FB	43	DTA50ESP0115	43
DTA16GSEF230	42	DTA25GFED2AA	51	DTA40ETST1AA	48	DTA50ESP0120	43
DTA16GSEF2FB	42	DTA25GHEL1AA	44	DTA40ETST2AA	49	DTA50ESP0125	43
DTA16GSP0115	43	DTA25GHEL2AA	45	DTA40ETST3AA	49	DTA50ESP0130	43
DTA16GSP0120	43	DTA25GHEL3AA	45	DTA40ETST4AA	49	DTA50ESP01AA	43
DTA16GSP0125	43	DTA25GHEL3FB	45	DTA40EVEL1AA	46	DTA50ESP01FB	43
DTA16GSP0130	43	DTA25GHEL4AA	45	DTA40EVEL2AA	47	DTA50ESP0215	43
DTA16GSP01AA	43	DTA25GHEL4FB	45	DTA40EVEL3AA	47	DTA50ESP0220	43
DTA16GSP01FB	43	DTA25GSEF1AA	42	DTA40EVEL3FB	47	DTA50ESP0225	43
DTA16GSP0215	43	DTA25GSEF215	42	DTA40EVEL4AA	47	DTA50ESP0230	43
DTA16GSP0220	43	DTA25GSEF220	42	DTA40EVEL4FB	47	DTA50ESP02AA	43
DTA16GSP0225	43	DTA25GSEF225	42	DTA40GFED1AA	50	DTA50ESP02FB	43
DTA16GSP0230	43	DTA25GSEF230	42	DTA40GFED2AA	51	DTA50ETST1AA	48
DTA16GSP02AA	43	DTA25GSEF2FB	42	DTA40GHEL1AA	44	DTA50ETST2AA	49

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DTA50ETST4AA	49	DTA63ESP01AA	43	DTC25EHEL4FB	55	DTC25GVEL3AA	57
DTA50EVEL1AA	46	DTA63ESP01FB	43	DTC25ESEF1AA	52	DTC25GVEL3FB	57
DTA50EVEL2AA	47	DTA63ESP0215	43	DTC25ESEF215	52	DTC25GVEL4AA	57
DTA50EVEL3AA	47	DTA63ESP0220	43	DTC25ESEF220	52	DTC25GVEL4FB	57
DTA50EVEL3FB	47	DTA63ESP0225	43	DTC25ESEF225	52	DTC40EFED1AA	60
DTA50EVEL4AA	47	DTA63ESP0230	43	DTC25ESEF230	52	DTC40EFED2AA	61
DTA50EVEL4FB	47	DTA63ESP02AA	43	DTC25ESEF2FB	52	DTC40EHEL1AA	54
DTA50GFED1AA	50	DTA63ESP02FB	43	DTC25ESP0115	53	DTC40EHEL2AA	55
DTA50GFED2AA	51	DTA63ETST1AA	48	DTC25ESP0120	53	DTC40EHEL3AA	55
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DTA50GSEF1AA	42	DTA63EVEL3FB	47	DTC25ESP0225	53	DTC40ESEF225	52
DTA50GSEF215	42	DTA63EVEL4AA	47	DTC25ESP0230	53	DTC40ESEF230	52
DTA50GSEF220	42	DTA63EVEL4FB	47	DTC25ESP02AA	53	DTC40ESEF2FB	52
DTA50GSEF225	42	DTA63GFED1AA	50	DTC25ESP02FB	53	DTC40ESP0115	53
DTA50GSEF230	42	DTA63GFED2AA	51	DTC25ETST1AA	58	DTC40ESP0120	53
DTA50GSEF2FB	42	DTA63GH1AA	44	DTC25ETST2AA	59	DTC40ESP0125	53
DTA50GSP0115	43	DTA63GH2AA	45	DTC25ETST3AA	59	DTC40ESP0130	53
DTA50GSP0120	43	DTA63GH3AA	45	DTC25ETST4AA	59	DTC40ESP01AA	53
DTA50GSP0125	43	DTA63GH3FB	45	DTC25EVEL1AA	56	DTC40ESP01FB	53
DTA50GSP0130	43	DTA63GH4AA	45	DTC25EVEL2AA	57	DTC40ESP0215	53
DTA50GSP01AA	43	DTA63GH4FB	45	DTC25EVEL3AA	57	DTC40ESP0220	53
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DTA50GSP0215	43	DTA63GSEF215	42	DTC25EVEL4AA	57	DTC40ESP0230	53
DTA50GSP0220	43	DTA63GSEF220	42	DTC25EVEL4FB	57	DTC40ESP02AA	53
DTA50GSP0225	43	DTA63GSEF225	42	DTC25GFED1AA	60	DTC40ESP02FB	53
DTA50GSP0230	43	DTA63GSEF230	42	DTC25GFED2AA	61	DTC40ETST1AA	58
DTA50GSP02AA	43	DTA63GSEF2FB	42	DTC25GH1AA	54	DTC40ETST2AA	59
DTA50GSP02FB	43	DTA63GSP0115	43	DTC25GH2AA	55	DTC40ETST3AA	59
DTA50GTST1AA	48	DTA63GSP0120	43	DTC25GH3AA	55	DTC40ETST4AA	59
DTA50GTST2AA	49	DTA63GSP0125	43	DTC25GH3FB	55	DTC40EVEL1AA	56
DTA50GTST3AA	49	DTA63GSP0130	43	DTC25GH4AA	55	DTC40EVEL2AA	57
DTA50GTST4AA	49	DTA63GSP01AA	43	DTC25GH4FB	55	DTC40EVEL3AA	57
DTA50GV1AA	46	DTA63GSP01FB	43	DTC25GSEF1AA	52	DTC40EVEL3FB	57
DTA50GV2AA	47	DTA63GSP0215	43	DTC25GSEF215	52	DTC40EVEL4AA	57
DTA50GV3AA	47	DTA63GSP0220	43	DTC25GSEF220	52	DTC40EVEL4FB	57
DTA50GV3FB	47	DTA63GSP0225	43	DTC25GSEF225	52	DTC40GFED1AA	60
DTA50GV4AA	47	DTA63GSP0230	43	DTC25GSEF230	52	DTC40GFED2AA	61
DTA50GV4FB	47	DTA63GSP02AA	43	DTC25GSEF2FB	52	DTC40GH1AA	54
DTA63EFED1AA	50	DTA63GSP02FB	43	DTC25GSP0115	53	DTC40GH2AA	55
DTA63EFED2AA	51	DTA63GTST1AA	48	DTC25GSP0120	53	DTC40GH3AA	55
DTA63EHEL1AA	44	DTA63GTST2AA	49	DTC25GSP0125	53	DTC40GH3FB	55
DTA63EHEL2AA	45	DTA63GTST3AA	49	DTC25GSP0130	53	DTC40GH4AA	55
DTA63EHEL3AA	45	DTA63GTST4AA	49	DTC25GSP01AA	53	DTC40GH4FB	55
DTA63EHEL3FB	45	DTA63GV1AA	46	DTC25GSP01FB	53	DTC40GSEF1AA	52
DTA63EHEL4AA	45	DTA63GV2AA	47	DTC25GSP0215	53	DTC40GSEF215	52
DTA63EHEL4FB	45	DTA63GV3AA	47	DTC25GSP0220	53	DTC40GSEF220	52
DTA63ESEF1AA	42	DTA63GV3FB	47	DTC25GSP0225	53	DTC40GSEF225	52
DTA63ESEF215	42	DTA63GV4AA	47	DTC25GSP0230	53	DTC40GSEF230	52
DTA63ESEF220	42	DTA63GV4FB	47	DTC25GSP02AA	53	DTC40GSEF2FB	52
DTA63ESEF225	42	DTC25EFED1AA	60	DTC25GSP02FB	53	DTC40GSP0115	53
DTA63ESEF230	42	DTC25EFED2AA	61	DTC25GTST1AA	58	DTC40GSP0120	53
DTA63ESEF2FB	42	DTC25EHEL1AA	54	DTC25GTST2AA	59	DTC40GSP0125	53
DTA63ESP0115	43	DTC25EHEL2AA	55	DTC25GTST3AA	59	DTC40GSP0130	53
DTA63ESP0120	43	DTC25EHEL3AA	55	DTC25GTST4AA	59	DTC40GSP01AA	53
DTA63ESP0125	43	DTC25EHEL3FB	55	DTC25GV1AA	56	DTC40GSP01FB	53

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DTC40GSP0220	53	DTC50GSEF220	52	DTC63EVEL4FB	57	DTC80ESP02AA	53
DTC40GSP0225	53	DTC50GSEF225	52	DTC63GFED1AA	60	DTC80ESP02FB	53
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Reference codes

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TDA32ADYN1HK000	173	TDA32BDYN1BY000	168	TDA32BDYN1EP000	168	TDA32BDYN1GY000	195



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Reference codes

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