



Partnership

PDS

UPGRADE THE POWER

PARTNERSHIP SYSTEM



- Design
- Certification
- Component Production
- Technical Support
- Marketing Support

PARTNER

- Customer Relationship
- On-Site Service
- On-Site Installation
- After Sales Support
- Local Marketing

CUSTOMER

CUSTOMER

CUSTOMER

Tekpan, undertaking the activities of design, certification and component production, resolves the needs of PDS system customers together with its partners. It acts in unison in development of new innovations oriented at customer needs or technical improvement, as well as cooperation to be done in regional marketing activities.

PDS

PARTNER

CUSTOMER

CUSTOMER

CUSTOMER

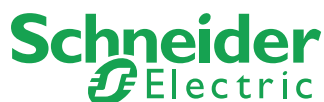


COMPATIBILITY WITH ALL BRANDS AND CERTIFICATION

PDS system is designed in IEC 61439-1/2 standards ensuring use of products of all switch brands in modular structure.

It provides opportunity to provide solutions in customers' choices of different brands of switches with both the technical advantages, preferability and the price advantages.

Type test documents and approvals that PDS system has in IEC 61439-1/2 standards will provide its validity for all products with examination and control process to be performed by partners.



PROJECT DESIGN/QUOTING IN SHORT TERM AND SYSTEMATIC ORDER PROCESS

customer

PARTNER



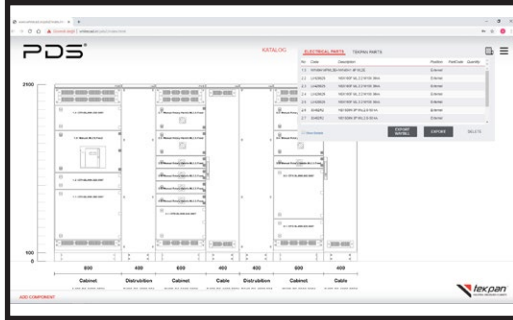
Project design and quoting is easy and fast through PDS Software

Same convenience and speed in revision requests

partner

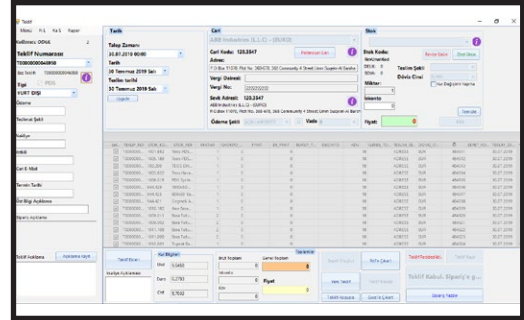


PARTNER



Order preparation and delivery to Tekpan PDS Center through PDS Software, online and practical

TEKPAN

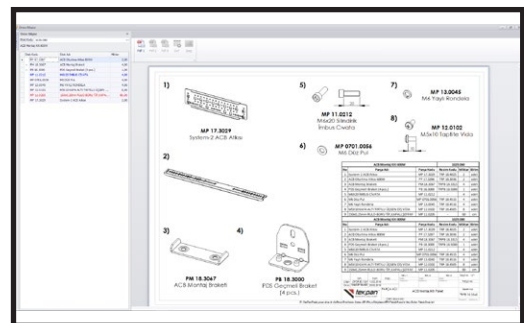


Order confirmation and sending the order to PDS planning software through TEKPAN ERP program



Separate packing and pallets for each panel group, an ideal solution for avoiding products of different projects to mix up

TEKPAN



Partial mounting and packaging of products through PDS production software

PROJECT SUPPORT SERVICE



In fulfilling the needs of customers, while partners are using the product and seeking solution; TEKPAN is always there for its partners without any charges. Continuous support service with solution offers from PDS technical support center for the questions of partners via telephone, e-mail and remote connection.

INITIAL TRAINING AND ORIENTATION

PDS system cares a lot about compliance with standards and quality in the frame of its own objectives. Both for achieving the quality objectives and increasing the production knowledge of its partners, related attendants of each partner will be involved in training and orientation about PDS products in the beginning of the partnership.



EASY, FAST AND CORRECT INSTALLATION



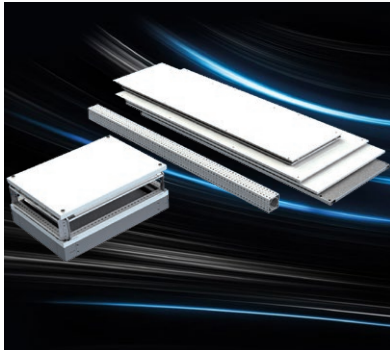
- Packing and packaging for each panel group.
- Minimizing loss of time by finding the palette and parcel numbers of related parts from packing list.
- Easiness to sort different product groups according to different operators and installation occasions.



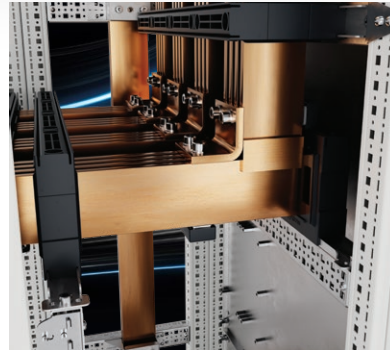
One of the most important objectives of PDS system is:
-Efficiency with experienced personnel- An installation personnel who has an average mechanical experience and had a short training is adequate for installation of PDS products. Preliminary preparation can be made with standardized copper sizes, job can be shared and a high level of efficiency can be obtained.

EFFICIENCY

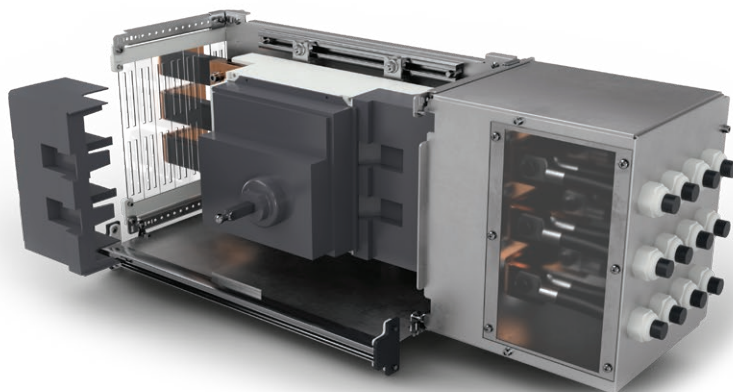
- Efficiency in the number of panels per personnel
- Efficiency in experienced personnel (especially electrical technician)
- Efficiency with number of panels per assembly area
 - Efficiency in number of panels per capital



Flat-pack with specially designed body structure

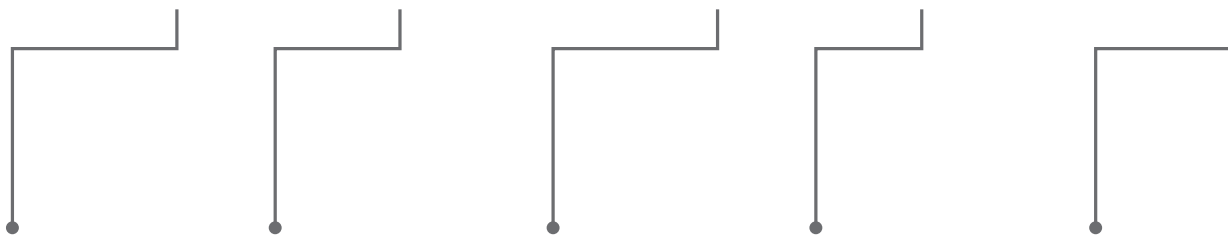


Non-perforated busbar assembly

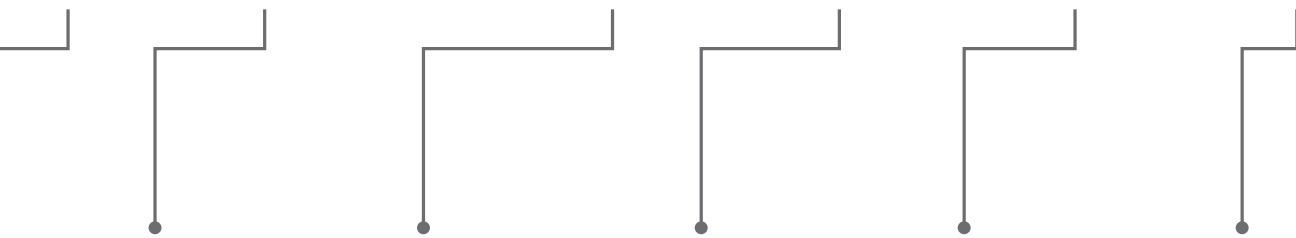


Easy forming

PDS 4000A CONFIGURATION OPTIONS



	ACB Mid Busbar Module	Convert Module	ACB Top Busbar Module	Distribution Module	Feeder Module
Width	600/800	300/400	600/800	300/400	400/600/800
In	Up to 4000A	1350A - 4000A	Up to 4000A	495A - 4000A	Up to 1600A
Icw	Up to 85kA	Up to 85kA	Up to 85kA	Up to 85kA	Up to 85kA
Ue	690V	690V	690V	690V	690V
Ui	1000V	1000V	1000V	1000V	800V
Uimp	12kV	12kV	12kV	12kV	8kV
Form	1-4b	1-4b	1-4b	1-4b	1-4b
IP	IP53	IP53	IP53	IP53	IP53
F.F.F	+	-	+	-	+
W.W.W	+	-	+	-	-



Cabling Module	Combined Feeder Module	Cabling Module	Withdrawable Module	Cabling Module
400/600	200+400 / 200+600	400/600	600	400/600
-	495-3400A Secondary Busbar Power	-	1000A	-
-	Up to 85kA	-	60kA	-
690V	690V	690V	690V	690V
800V	800V	800V	800V	800V
8kV	8kV	8kV	8kV	8kV
1-4b	1-4b	1-4b	3b / 4b	1-4b
IP53	IP53	IP53	IP 40	IP53
-	+	-	-	-
-	-	-	+	-

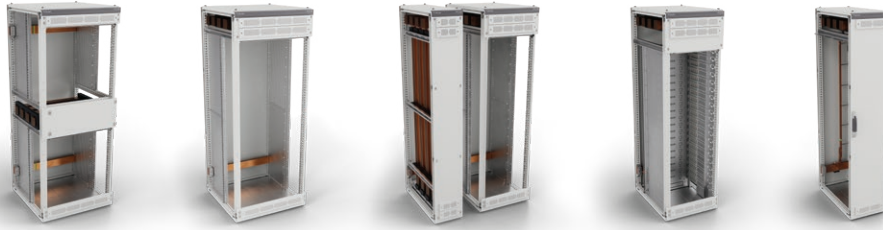
MODULARITY



PDS system is a whole of systems modularized for needs. Each module and cassettes are put to type tests. This way, different combinations of modules and cassettes are fully in accordance with type test standards. In addition, modularized structure makes it very easy to choose, produce and back up.

PDS 4000A MAIN MODULES

External



Internal



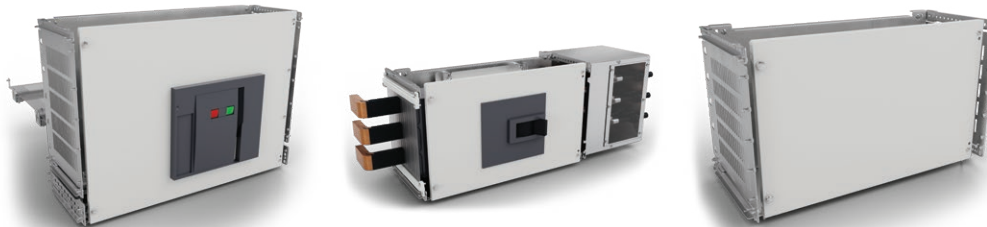
Main Busbar
Current
Carrying
Capacity at
25°C
1350 A
1620 A
1860 A
2300 A
2500 A
3000 A
3400 A
4000 A

FUNCTION / CASSETTES

External



Internal



Mounting Plate



Rails



ACB (OPEN TYPE CIRCUIT BREAKER) CASSETTES

ACB TOP CONNECTION

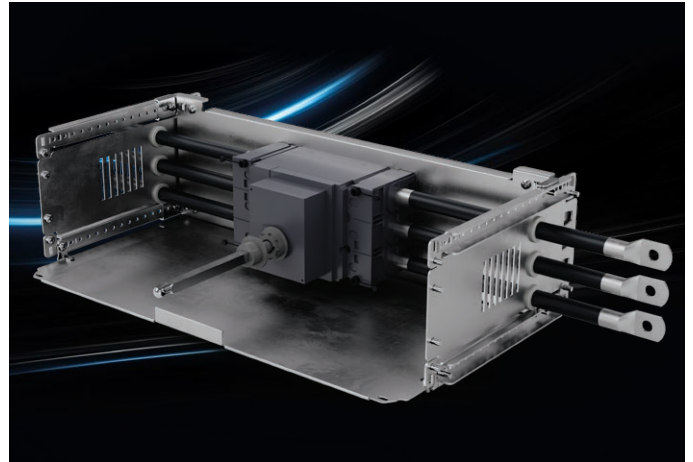


ACB BOTTOM CONNECTION

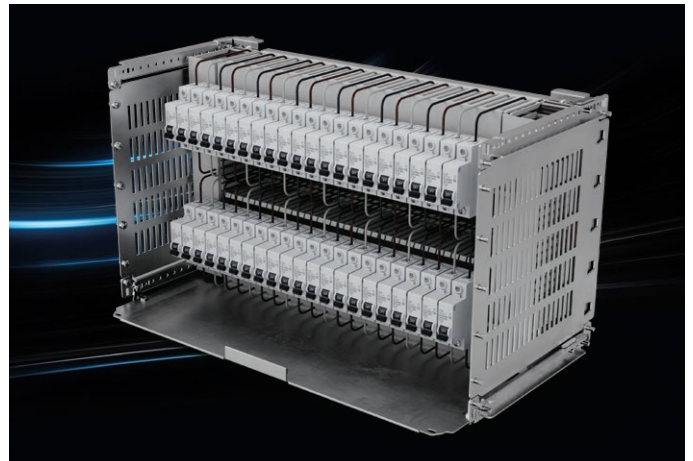
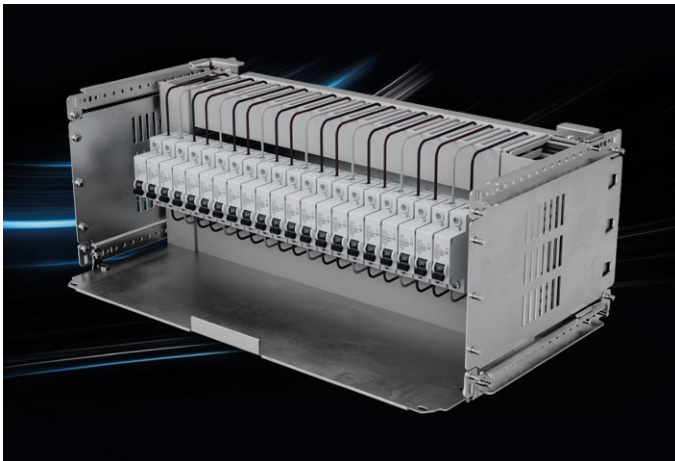


FIXED TYPE OUTPUT CASSETTES

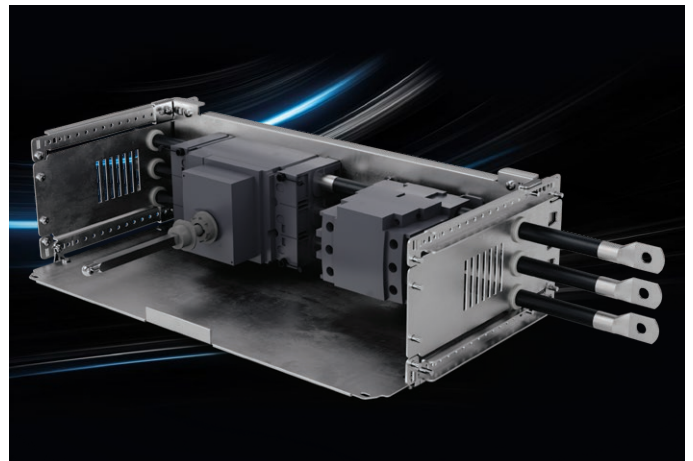
MCCB (COMPACT TYPE CIRCUIT BREAKER) CASSETTES



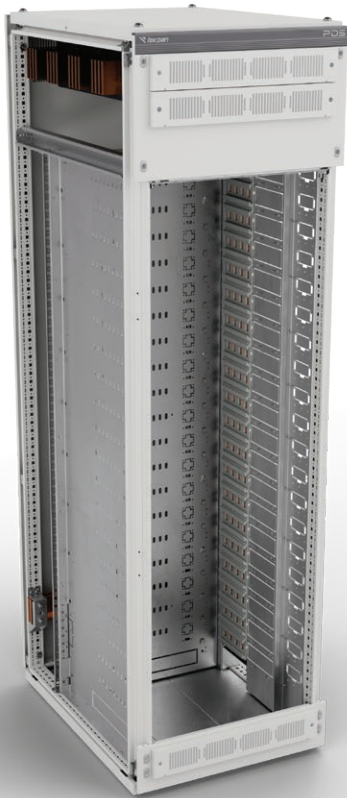
MCB (AUTOMATIC CIRCUIT BREAKERS) CASSETTES



FIXED TYPE MCC (MOTOR CONTROL) CASSETTES

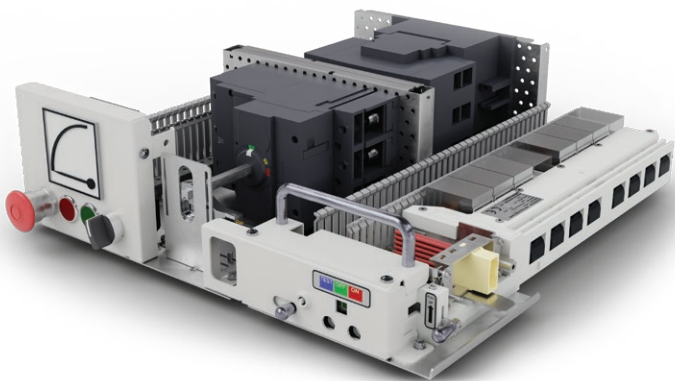


PDS 4000A WITHDRAWABLE MCC/MCCB MODULE



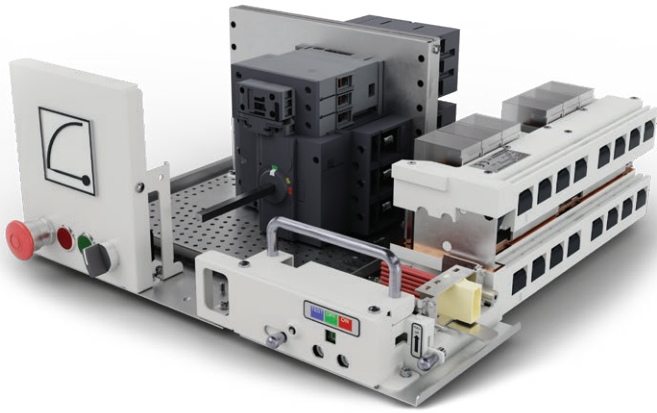
- 1000A power capacity with 60/10 copper duct busbar
- 1500h cassette placement area

MCC DIRECT STARTING (DOL) CASSETTES



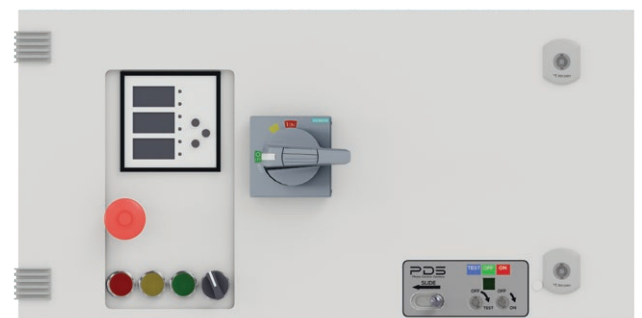
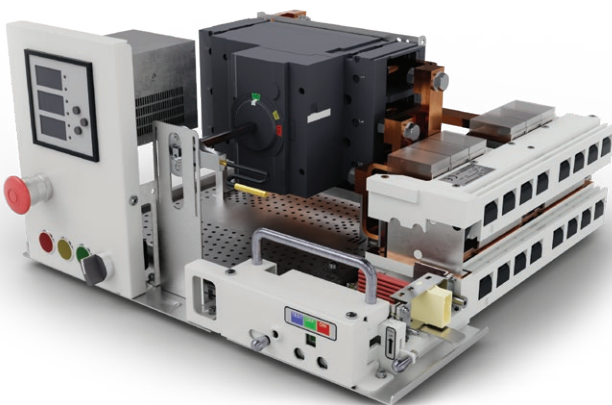
- 75h DOL (Direct starting) max. 15 kW
- 150h DOL (Direct starting) max. 55 kW
- 225h DOL (Direct starting) max. 110 kW

MCC STAR DELTA (DSD) CASSETTES



- 150h star delta max. 55kW
- 225h star delta max. 75kW
- 300h star delta max. 110kW

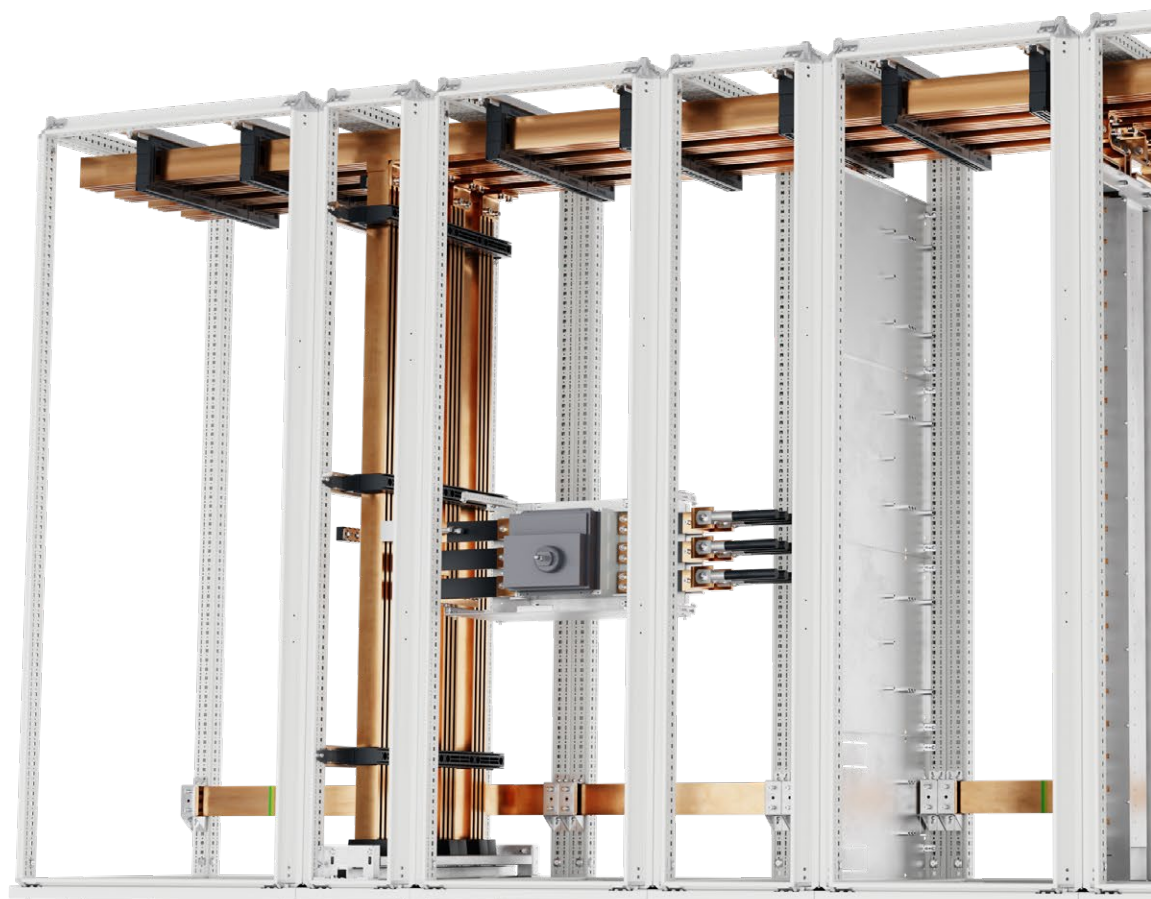
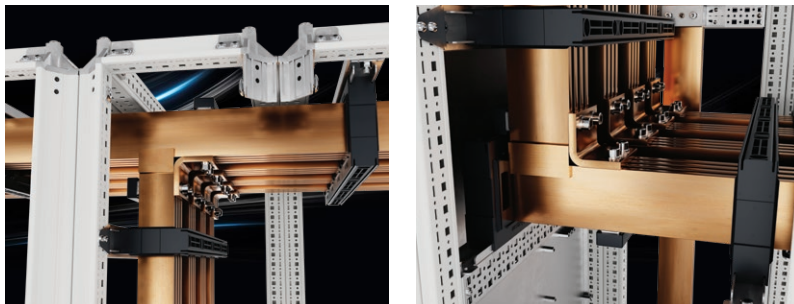
MCCB COMPACT CIRCUIT BREAKER (PD) CASSETTES



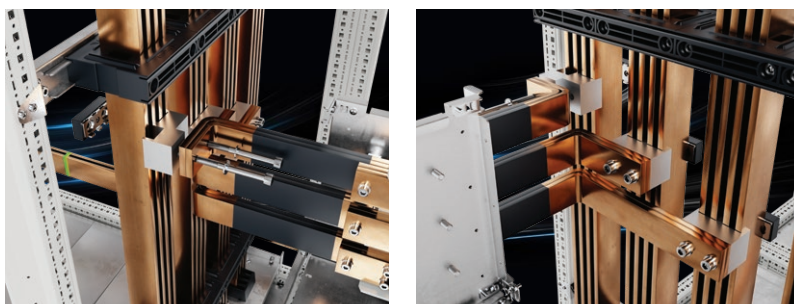
- 150h MCCB Max. 200A
- 225h MCCB Max. 250A
- 300h MCCB Max. 630A

PDS 4000A Plug-In Main Busbar System

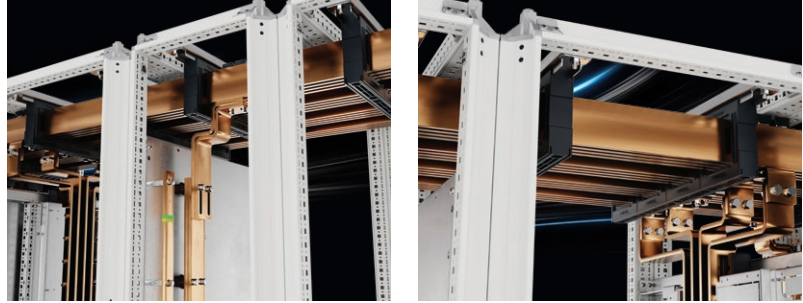
MAIN BUSBAR-DISTRIBUTION BUSBAR CONNECTION



DISTRIBUTION BUSBAR-MCCB (Compact Circuit Breaker) CONNECTION



NEUTRAL MAIN BUSBAR-NEUTRAL DISTRIBUTION BUSBAR CONNECTION



GROUNDING BUSBAR CONNECTION



Main Busbar Current Carrying Capacity at 25 ° C +30K (A)	Main Busbar	Panel Depth
1350	40/10x2	600mm
1620	50/10x2	600mm
1860	60/10x2	600mm
2300	80/10x2	600mm
2500	40/10x4	800mm
3000	50/10x4	800mm
3400	60/10x4	800mm
4000A	80/10x4	800mm

IEC 61439-1/2

Rated Voltage (Ue) = 690V

Isolation Voltage (Ui) = 1000V

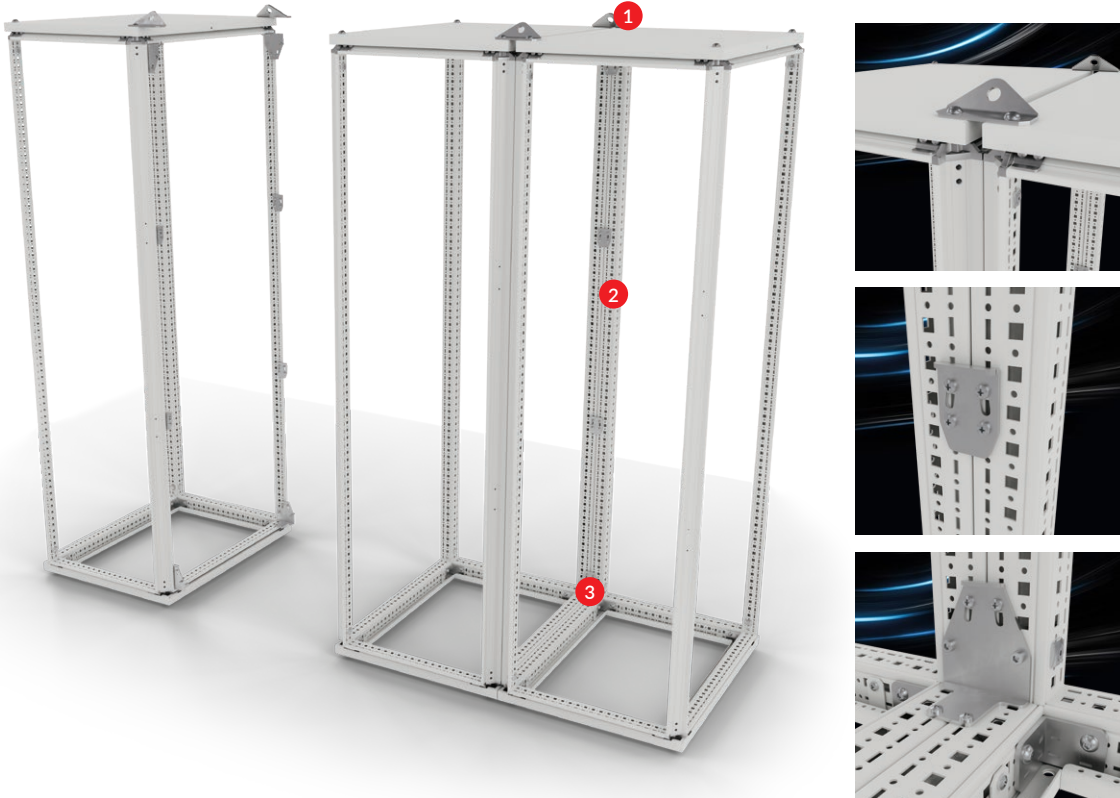
Rated Peak Withstand Current (Ipk) = Up to 176kA

Short Circuit Withstand (Icw)

=Max. 85kA-1sn / 65kA-3sn

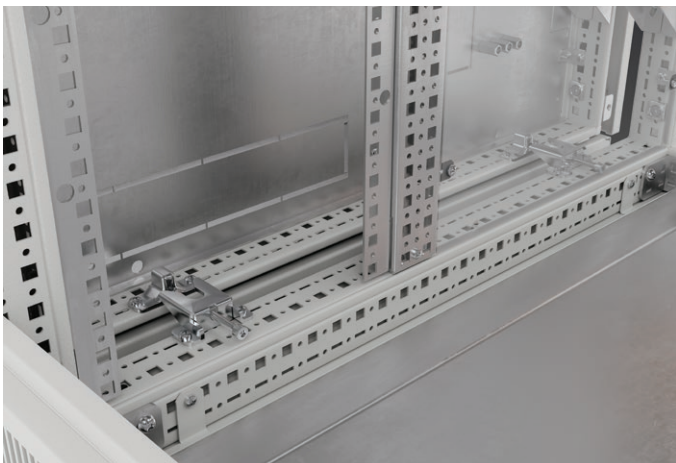
PANEL COMBINATION SYSTEM

PANEL MODULE



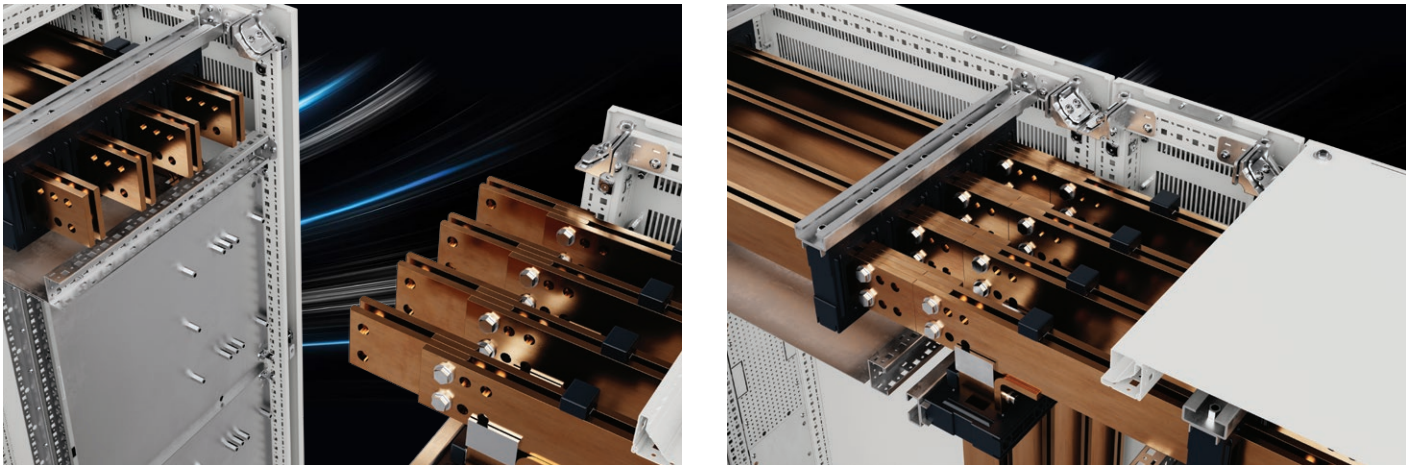
Used in combination of modules in Panel Module.

PANEL GROUP COMBINATION

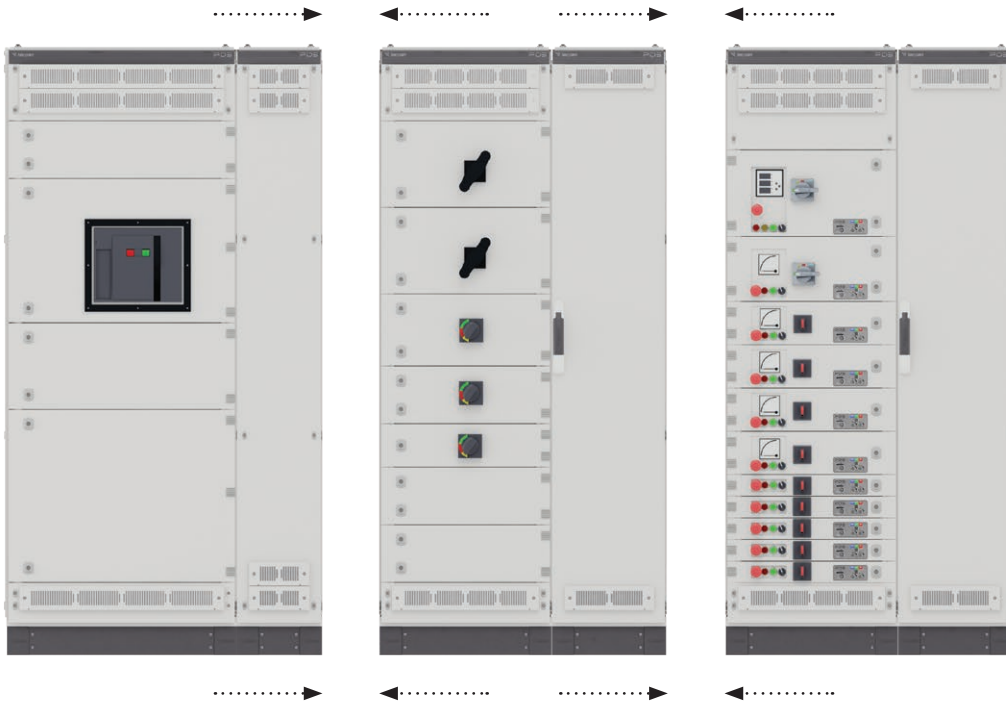


In divided panel groups, weight and uneven floor surface create problems. PDS panel group combination system provides easy and effective combination in tough environments including formed panels.

MAIN BUSBAR COMBINATION

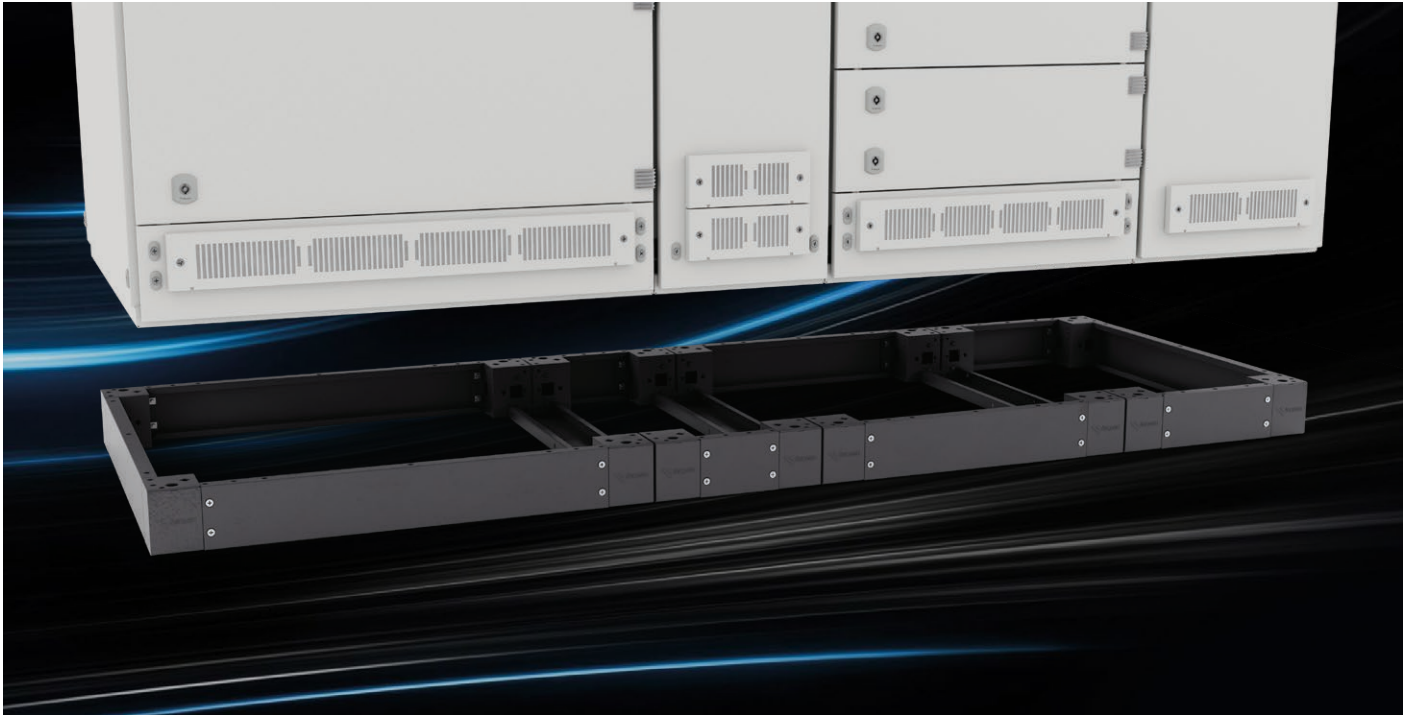


Mounting holes are prepared on the separation point of main busbar, which is specified before project or mounting. Separated panel groups are easily combined by guiding to each other on field with group combination system. Busbars are safely combined to each other with special busbar connection screws.

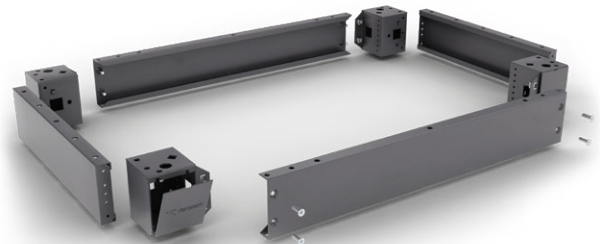


Main busbar combination system can be used in combination of panel groups as well as independent combination of suitable panel modules.

BASE AND CARRYING SYSTEM



MODULAR BASE SYSTEM



Modular base system allows reaching the bottom part of the panel by opening the base covers. Connection to the floor is provided from the inner corners of the base.

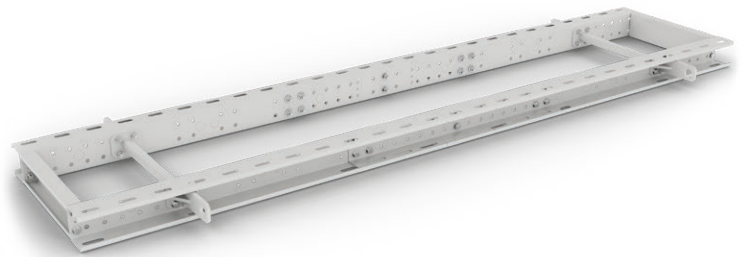
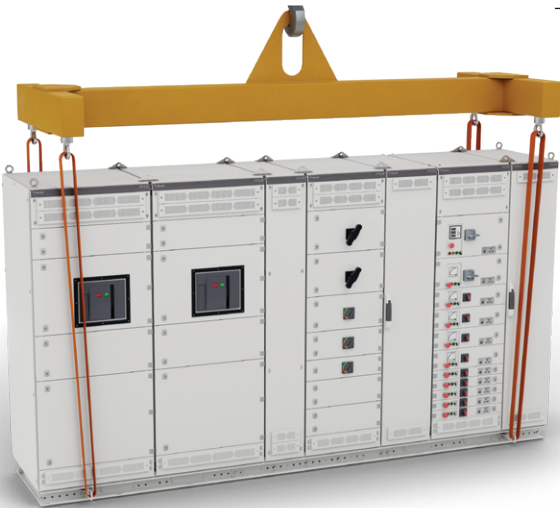
There are 100mm and 200mm height options.

Single or triple panels can be carried with no-apparatus top pulling system.

In panel groups with four or more panels, carrying can be done with top pulling system by help of top carrying apparatus.



TELESCOPIC BASE SYSTEM



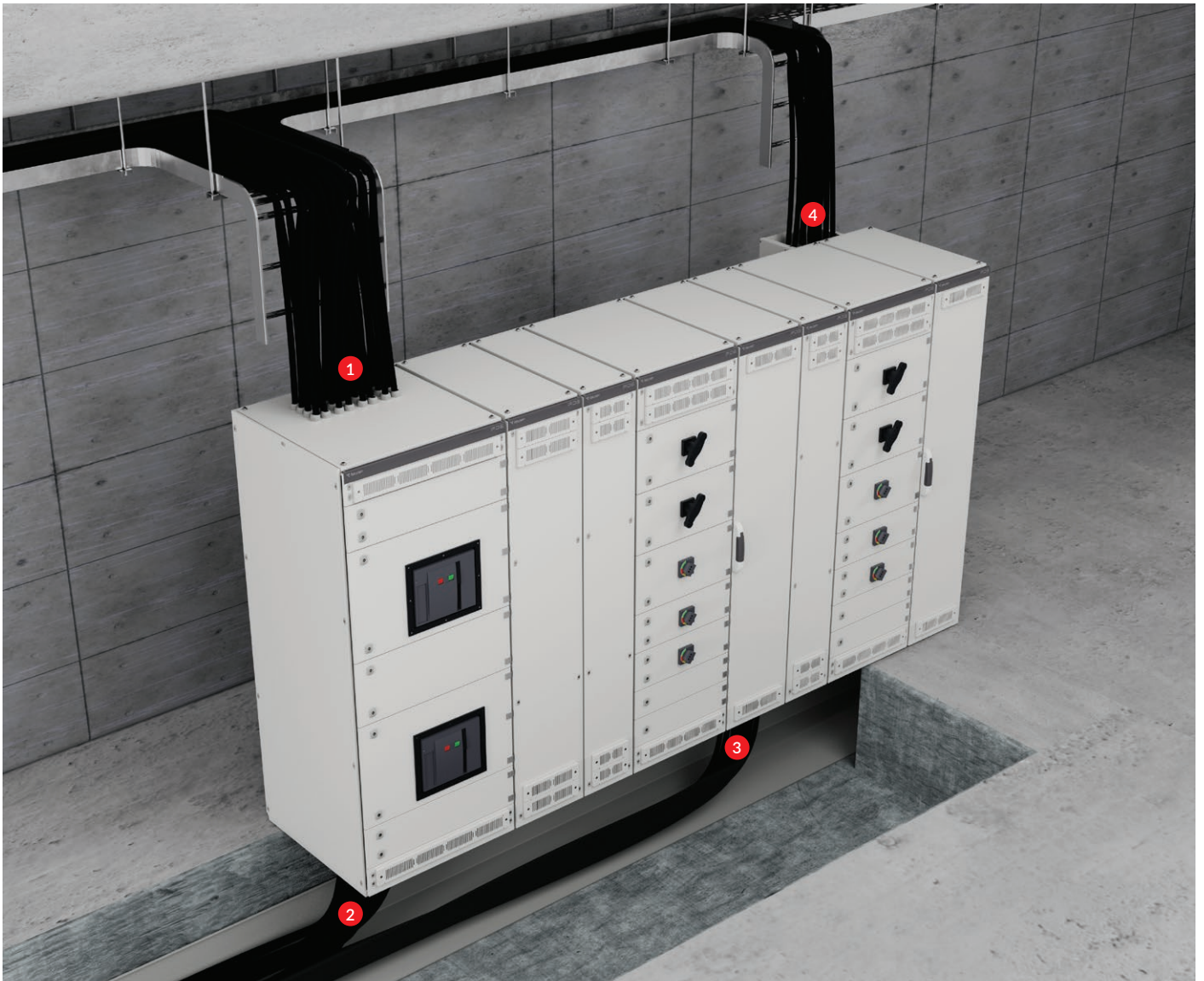
Provides great benefits in carrying and on-site installation of heavy panel groups. Its size can be adjusted according to desired panel size.

Thanks to its demountable lifting apparatus, heavy panels can be safely carried.

In low ceiling site connections or in places where carrying from top is not possible in the site, it can easily be dragged with pipe or similar apparatus placed under the base.



CABLE INLET SYSTEM



ACB (Open Type Circuit Breaker) top penetration is done to the panel module with the cable glands that provide isolation in cable entry from top. For this penetration system, main busbar should be in middle position. Same system is used for busbar top entries.

ACB (Open Type Circuit Breaker) bottom penetration is done to the module with the glands above the bottom plates or foam isolation entry system in cable entry from bottom.





3 CABLING MODULE (BOTTOM CONNECTION)

For connection to output terminals of MCCB (Compact Circuit Breaker), MCB (Automatic Circuit Breaker) or fixed MCC (Motor Control) modules, penetration to the panel is provided through cable modules.

In bottom cable entry system; cables penetrate the cable module with glands or foam isolation system from the top of the floor plates, connect to the cable clamps which are mounted on the side surface and which will reduce the cable weight stress, and safe connection to terminals is ensured.



4 CABLING MODULE (BACK CONNECTION)

Another method for cable connection to output terminals of MCCB (Compact Circuit Breaker), MCB (Automatic Circuit Breaker) or MCC (Motor Control) fixed modules is penetration of cables to the cable module from the back cover.

It's preferred especially in dense cabling cases or in cases where cable penetration cannot be done from bottom and penetration from top cable tray is inevitable.

Cables are carried from cable tray, which is on top of the panel,

to the back of the cable module, from inside the entry plates to the terminals. IP53-65 glands or IP4X foam isolation plates can be preferred for isolation. While cable penetrations are done to the panel module, cable weights are removed from cable clamps on the back module and the back module is closed with covers for safety.



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