Rittal – The System.

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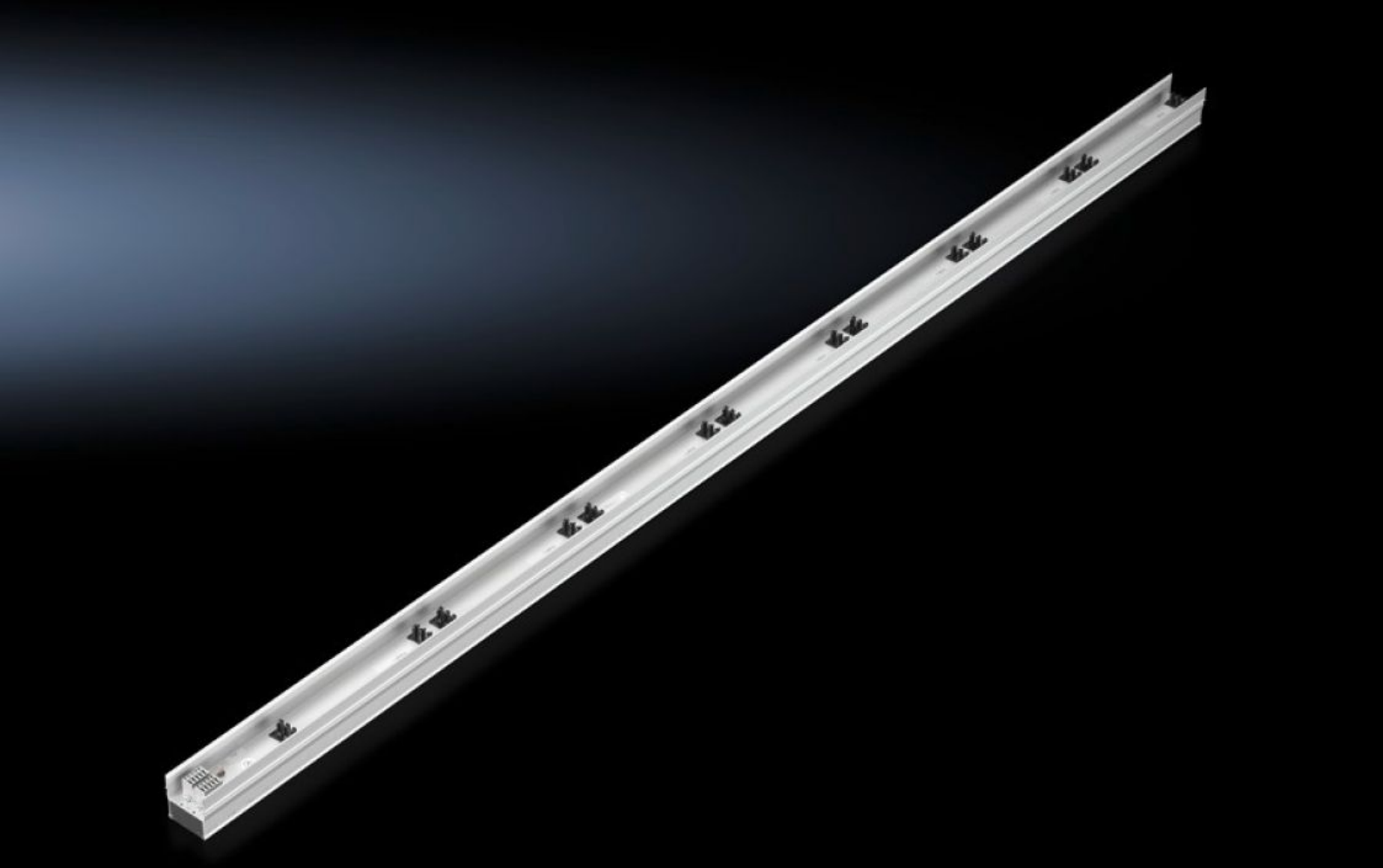

DK 7856.010
PSM busbars

State: 21/09/2024 (Source: rittal.com/au-en)

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FRIEDHELM LOH GROUP

DK 7856.010 - PSM busbars

One or two infeeds, with on or three phases, redundant after changing the plug-in module's direction of connection. With measurement option in conjunction with the CMC III system.

Features

Model No.	DK 7856.010
Design	With 2 infeeds (jack), 3-phase redundancy
Product description	The modular system facilitates basic configuration of the racks, thanks to a vertical support rail with single-/3-phase infeed. The various socket modules to supply the active components may be snap-fitted into the support rail. This can even be done whilst the system is operational, because the support section is shock hazard-protected.
Benefits	Modules may be retrofitted whilst operational.
Technical specifications	Each plug-in module picks off a phase on the support rail, either from infeed or from the redundant infeed, depending on the direction of connection. Depending on the design, single-/3-phase construction with a maximum current of 2 x (3 x 16 A/32 A). 3-phase redundant infeed supported. The redundant circuit is completely separate from the 3 phases of the support rail. Modules may be equipped with integral overcurrent protection, so that only the affected module is deactivated in the event of an excessively high current. The other modules remain operational.
Material	Aluminium section, natural anodised
Type of electrical connection	WAGO X-COM

Features

Qty.	2
Phases per infeed	3~
Rated current (max.)	16 A
Module slots (max.)	4
To fit	Enclosure type: TS 8 TS IT VX IT Height: 1,200 mm
Operating temperature range	5 °C...45 °C
Ambient humidity (non-condensing)	5...95 %
Storage temperature range	-20 °C...60 °C
Packs of	1 pc(s).
Weight/pack	2.289 kg
Net weight	2.089
Gross weight	2.24
Customs tariff number	85369001
EAN	4028177402461
ETIM 7.0	EC000215
ECLASS 8.0	27371306

Approvals

Approvals	IEC CB VDE
Explanations	Declaration of conformity

Tender text

Power system module busbar

The modular system enables a basic configuration using vertical support rails and a three-phase supply to be installed for each rack. The system also has a redundant power supply configuration as a second power supply has been provided for each of the rails. The vertical support rails ensure that the slots can be used over the full height of the enclosure and the redundant supply comes from the second separate supply.
Socket modules can be snapped into the support rails. The contact hazard protection design of the busbar ensures that socket modules do not have to be fitted in all of the slots.
Socket modules are available in different country versions, i.e. IEC IEC320 C13, earthing-pin, F/B, CH, USA & UK.
A mixture of all of the modules can be fitted in the rails.
Four socket modules can be used each 1.20 m rail. A total of 24 sockets are available if IEC320 modules are fitted.
Installation via the plug & play system:
The busbar can be installed in a FlexRack(i) without having to use an adaptor or can be retrofitted to all Rittal TS / PS racks using a DK7856.011 mounting kit.
The power is supplied via a 5-pin connection socket using tension-spring technology.
A pre-configured 3 m connection cable fitted with an IEC309 AC plug is also available.
All of the socket modules can be upgraded whilst working.
3-phase overvoltage protection:
Overvoltage protection is available for every 3-phase supply. Overvoltage protection can also be fitted as an upgrade. Integrated visual function checks
Overvoltage protection has been designed to meet Class D requirements (different use with local sockets).
Technical fittings:
3-phase design with max. 3 x 16A per power circuit
Two separate power circuits per support rail
The redundant power circuit has a completely separate

potential to power circuit 1
The connection direction of the socket module can be selected to determine if power circuit 1 or redundant power circuit 2 will be used.
Socket module can be upgraded whilst working
Every module can be selected with / without an integrated circuit-breaker
Specifications:
Three-phase voltage range 110V - 400V AC 50/60 Hz, neutral line is required
Max. current per supply: 3 x 16A
Temperature application range: +5°C - +45°C
Humidity range: 5% -s 95% rel. humidity, non-condensing
Protection category IP20
Aluminium H-section
W x H x D: 60 x 1108 x 60 mm