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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for two signal wires with common reference potential. Indirect grounding via gas-filled surge arrester.

Your advantages

- ☑ Predictive monitoring with 3-stage LED display
- ☑ Integration of the status message into the system controller via group remote signaling
- Install quickly and error-free with DIN rail connectors
- Maximum ease of maintenance thanks to the two-piece design
- Maximum protection for MCR applications with high discharge capacity



















Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 645201
GTIN	4046356645201
Weight per Piece (excluding packing)	140.000 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	91.1 mm
Width	17.7 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

11/14/2021 Page 1 / 10



Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 70 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Permissible humidity (operation)	5 % 95 %
Altitude	≤ 4000 m (amsl (above mean sea level))
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Туре	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground

Additional descriptions

Note Remote signaling as well as the power supply of the DIN rail connector established by snapping the module into place on the DIN rail connector	
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Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
Maximum continuous voltage U _C	30 V DC
	21 V AC
Rated current	1000 mA (40 °C)
Operating effective current I _C at U _C	≤ 1 mA (per path)
Residual current I _{PE}	≤ 1 µA
Nominal discharge current I _n (8/20) µs (line-earth)	10 kA
Pulse discharge current I _{imp} (10/350) μs (line-earth)	2.5 kA
Total discharge current I _{total} (8/20) μs	20 kA
Voltage protection level U _p (line-earth)	≤ 800 V (C1 - 1 kV / 500 A)
	≤ 950 V (C2 - 10 kV / 5 kA)
	≤ 780 V (C3 - 25 A)
	≤ 950 V (C3 - 50 A)
Voltage protection level U _p (line-signalground)	≤ 75 V (C1 - 1 kV / 500 A)
	≤ 135 V (C2 - 10 kV / 5 kA)

11/14/2021 Page 2 / 10



Technical data

Protective circuit

	≤ 55 V (C3 - 25 A)
	≤ 60 V (C3 - 50 A)
Voltage protection level U _p static (line-earth)	≤ 90 V (C3 - 25 A)
	≤ 90 V (C3 - 50 A)
Response time t _A (line-signalground)	≤ 1 ns
Response time t _A (line-earth)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (signal ground) in 150 Ω system	typ. 1.1 MHz
Capacity (line-earth)	typ. 2 nF
Resistance per path	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	1 A (FF)
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C2 - 10 kA
	C3 - 50 A
	D1 - 2.5 kA
Impulse durability (line-signalground)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C2 - 10 kA
	C3 - 50 A
	D1 - 2,5 kA
Pulse reset time (line-earth)	≤ 30 ms
Pulse reset time (line-signalground)	≤ 350 ms

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Connection, equipotential bonding

Connection metrod		
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Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + A1:2008, modified

11/14/2021 Page 3 / 10



Technical data

Standards and Regulations

EN 61643-21 2001 + A1:2009
EN 61000-6-3 2007 + A1:2011
EN 61000-6-2 2005

Environmental Product Compliance

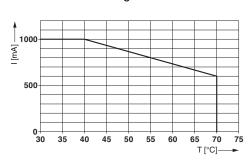
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

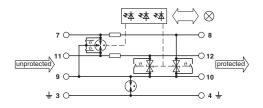
Pictogram



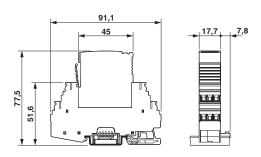
Diagram



Circuit diagram



Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 11.0	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800

11/14/2021 Page 4 / 10



Classifications

eCl@ss

eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

CSA / UL Listed / CSAus / EAC / EAC / cCSAus

Ex Approvals

Approval details

CSA



http://www.csagroup.org/services-industries/product-listing/

2761632

11/14/2021 Page 5 / 10



Approvals

UL Listed	UL LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
CSAus	∰ °	http://www.csagroup.org/services-industries/product-listing/	2761632
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EAC	EAC		EAC-Zulassung
			RU C-
EAC	EAC		DE.*09.B.00169
	•		
cCSAus	GP° US		

Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Labeled terminal marker

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

11/14/2021 Page 6 / 10



Accessories

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Mounting material



Accessories

End clamp - E/ME TBUS NS35 GY - 2713780



End clamp, stable construction for DIN rail bus connector

PCB plug

Printed-circuit board connector - FK-MC 0,5/5-ST-2,5 - 1881354



PCB connector, nominal cross section: 0.5 mm², color: green, nominal current: 4 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 5, Number of rows: 1, Number of positions per row: 5, number of connections: 5, product range: FK-MC 0,5/..-ST, pitch: 2.5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, plug-in system: MICRO COMBICON - FK-MC 0,5, Locking: without, mounting: without, type of packaging: packed in cardboard

Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5/WH-100:UNBEDRUCKT - 0808668



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Necessary add-on products



Accessories

Supply and remote module - PT-IQ-PTB-UT - 2800768



Module for power supply and multi-stage, floating remote signaling of connected surge protection modules.

Additional products

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Spare parts

Surge protection plug - PT-IQ-2X1-24DC-P - 2800776



Surge protection plug with integrated multi-stage status indicator on the module for two signal wires with common reference potential. 24 V DC nominal voltage.

DIN rail bus connectors - PT-IQ-17,5-TBUS-5-2.0 - 2906878



DIN rail connector for PT-IQ system for establishing remote signaling and the power supply when a surge protection module is snapped on.

11/14/2021 Page 9 / 10



Accessories

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