

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Surge voltage arrester combination 3-channel, for mounting on NS 35/7.5, with remote indicator contact as PDT, voltage 400 V AC

Your advantages

☑ Can be used in 400 V IT systems



Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 459172
GTIN	4055626459172
Weight per Piece (excluding packing)	393.500 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	98.7 mm
Width	71 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 5000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)



Technical data

Ambient conditions

Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)
General	
IEC test classification	II
	T2
EN type	T2
Mode of protection	L-PE
	L-L
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	4
Surge protection fault message	Optical, remote indicator contact

Additional descriptions

Note	Burst test up to 4 kV passed according to DIN EN 61000-4-4.
	Insulates against repetitive pulses up to 1.5 kV.
	Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a).
	At altitudes > 2000 m (amsl), a lateral distance of 2 mm must be maintained between live and grounded parts.

Protective circuit

400 V AC (IT)
50 Hz (60 Hz)
440 V AC
80 A
≤ 5 µA
≤ 600 mVA
20 kA
40 kA
25 kA
≤ 4 kV
≤ 3.5 kV
\leq 4 kV (at I _n)
\leq 2.3 kV (at I _n)



Technical data

Protective circuit

Response time t _A (L-L)	≤ 25 ns
Response time t _A (L-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	100 A (gG)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC (Altitude ≤ 2000 m amsl)
	5 V AC 150 V AC (Altitude > 2000 m amsl)
	30 V DC
Operating current	5 mA AC 750 mA AC
	1 A DC
Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm² 16 mm²)
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section solid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm ² 16 mm ²

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

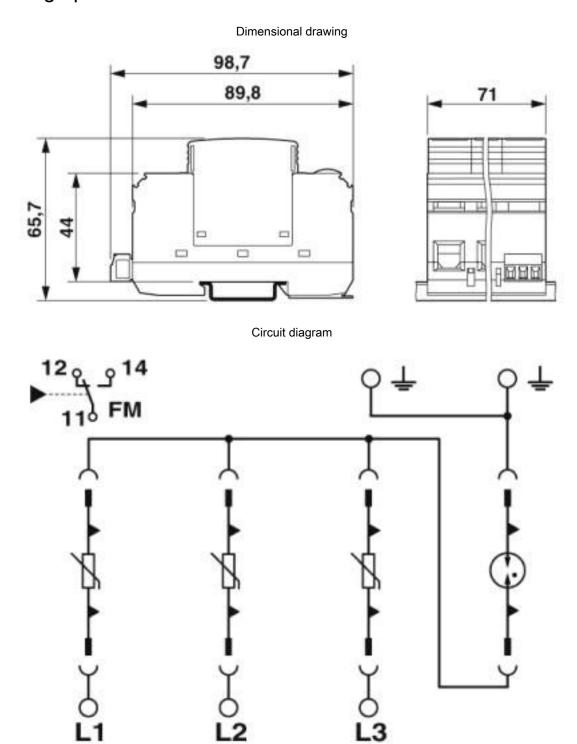
Environmental Product Compliance

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



Type 2 surge protection device - VAL-MS 400/3+0/VF-FM - 2910476



Classifications

eCl@ss

eCl@ss 10.0.1	27130805
eCl@ss 6.0	27130800



Classifications

eCl@ss

eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 5.0	EC000941
ETIM 6.0	EC000941
ETIM 7.0	EC000941

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC RU C-DE.*09.B.00169

Accessories

Accessories

Bridge

Wiring bridge - MPB 18/4-8 - 2809283



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.

Device marking



Accessories

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

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, 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

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, 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

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm



Accessories

Type 2 surge protection plug - VAL-MS 400 ST - 2816399



Surge protection connector type 2 with high-capacity varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 400 V AC

Type 2 surge protection plug - F-MS 1100 ST - 2909844



Surge protection plug type 2, spark gap with high insulation voltage strength, used only as replacement plug for the corresponding complete item.

Phoenix Contact 2020 @ - all rights reserved http://www.phoenixcontact.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Phoenix Contact: 2910476