

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)



Plug-in surge arrester for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with remote indication contact.

Your advantages

- ☑ Plugs can be checked with CHECKMASTER
- With or without floating remote indication contact
- ☐ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- Disconnect device on each individual plug
- Optical, mechanical status indication for the individual arresters
- Modular arrester blocks with ultra-narrow design
- Mechanical coding of all slots



Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 977603
GTIN	4017918977603
Weight per Piece (excluding packing)	220.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

12/05/2019 Page 1 / 9



Technical data

Dimensions

Height	98 mm
Width	25.3 mm
Depth	71.5 mm
Horizontal pitch	1.4 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-S
	TT
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	DIN rail: 35 mm
Color	gray/blue
	black
Housing material	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U _N	240 V AC (TN-S)
	240 V AC (TT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U _C (L-N)	350 V AC
Maximum continuous operating voltage U _C (L-PE)	350 V AC

12/05/2019 Page 2 / 9



Technical data

Protective circuit

Maximum continuous voltage U _c (N-PE)	264 V AC
Rated load current I _L	40 A (Biconnect M4 fork-type cable lug 6 mm²)
	63 A (TWIN ferrule 2 x 10 mm²)
Residual current I _{PE}	≤ 1 µA
Nominal discharge current I _n (8/20) µs (L-N)	20 kA
Nominal discharge current I _n (8/20) µs (N-PE)	20 kA
Maximum discharge current I _{max} (8/20) μs (L-N)	40 kA
Maximum discharge current I _{max} (8/20) μs (N-PE)	40 kA
Follow current interrupt rating I _{fi} (N-PE)	100 A (264 V AC)
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p (L-N)	≤ 1.5 kV
Voltage protection level U _p (L-PE)	≤ 1.9 kV
Voltage protection level U _p (N-PE)	≤ 1.5 kV
Residual voltage U _{res} (L-N)	≤ 1.5 kV (at I _n)
	≤ 1.3 kV (at 10 kA)
	≤ 1.2 kV (at 5 kA)
	≤ 1.1 kV (at 4 kA)
	≤ 1 kV (at 2 kA)
Residual voltage U _{res} (N-PE)	\leq 0.5 kV (at I _n)
	≤ 0.5 kV (at 10 kA)
	≤ 0.5 kV (at 5 kA)
	≤ 0.5 kV (at 4 kA)
	≤ 0.5 kV (at 2 kA)
TOV behavior at U _⊤ (L-N)	415 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
TOV behavior at U _T (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t _A (L-N)	≤ 25 ns
Response time t _A (N-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm²)
	63 A (gG / TWIN ferrule 2x 10mm²)
Max. backup fuse with branch wiring	315 A (gG)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC 1 A AC

12/05/2019 Page 3 / 9



Technical data

Indicator/remote signaling

	1 A DC (30 V DC)
Connection method	Pluggable screw connection
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	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm² 16 mm²
Conductor cross section solid	2.5 mm² 25 mm²
Conductor cross section AWG	12 4

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-N)	350 V AC
Maximum continuous operating voltage MCOV (L-G)	350 V AC
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Nom. voltage	240 V AC
Mode of protection	L-N
	L-G
	N-G
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	2000 V
Measured limiting voltage MLV (L-G)	2080 V
Measured limiting voltage MLV (N-G)	950 V
Nominal discharge current I _n (L-N)	20 kA
Nominal discharge current I _n (L-G)	20 kA
Nominal discharge current I _n (N-G)	20 kA

Environmental Product Compliance

China Rons Environmentally Friendly Ose Period = 50	ſ	China RoHS	Environmentally Friendly Use Period = 50
---	---	------------	--

12/05/2019 Page 4 / 9



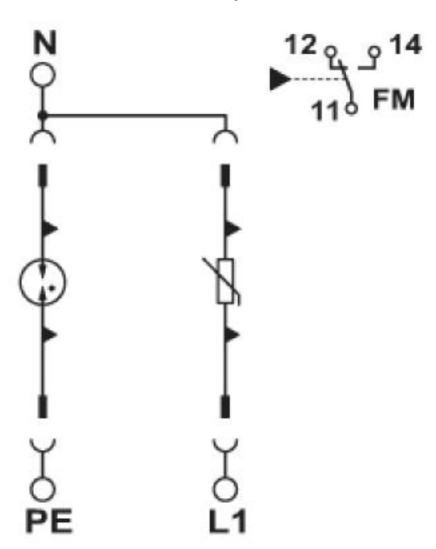
Technical data

Environmental Product Compliance

For details about hazardous substances go to tab "Downloads", Category
"Manufacturer's declaration"

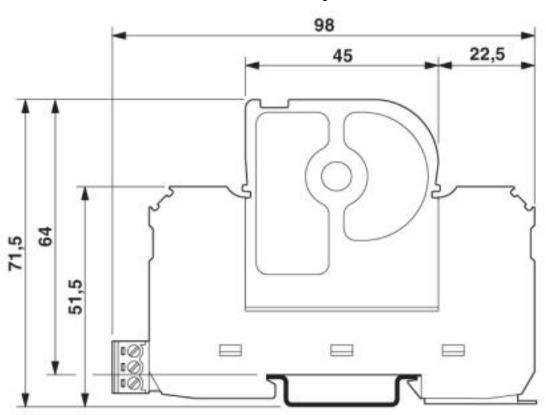
Drawings

Circuit diagram





Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

12/05/2019 Page 6 / 9



Classifications

ETIM

ETIM 6.0 EC000941

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Accessories

Accessories

Bridge

Wiring bridge - MPB SET VAL-CP-3S - 2880684



Wiring bridge set, consisting of three flexible bridges 15 cm black, 1 bridge 27 cm blue.

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

Feed-through terminal block

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



Feed-through terminal block for VAL and FLT applications



Accessories

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

Spare parts

Type 2 surge protection plug - VAL-CP-350-ST - 2859602



Replacement plug for VAL-CP surge protective device with high-capacity varistor with a low leakage current.



Accessories

Type 2 surge protection plug - VAL-CP-N/PE-350-ST - 2859699



Replacement plug for VAL-CP surge arrester with N-PE spark gap.

Phoenix Contact 2019 © - all rights reserved http://www.phoenixcontact.com