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Universal varistor-based plug-in lightning/surge arrester for 1-phase power supply networks with common N and PE (2-conductor system: L1, PEN).



Key commercial data

Packing unit	1 pc
GTIN	4 046356 698160
Weight per Piece (excluding packing)	175.3 g
Custom tariff number	85363030
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	90 mm
Width	17.5 mm
Depth	77.5 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
	IP20 (only when all terminal points are used)
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
Vibration (operation)	7.5g



Technical data

General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
Number of ports	One
SPD design	Voltage-limiting type
Mode of protection	L-N
	L-PEN
Mounting type	DIN rail: 35 mm
Housing material	PA 6.6
	PBT
Pollution degree	2
Inflammability class according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Surge protection fault message	Optical

Protective circuit

Nominal voltage U_N	120 V AC (TN-C, TN-S)
	120 V AC (TT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U _C	175 V AC
Maximum continuous operating voltage U _C (L-N)	175 V AC
Maximum continuous operating voltage U _C (L-PEN)	175 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 800 µA
Standby power consumption P _C	≤ 140 mVA
Nominal discharge current I _n (8/20) μs	12.5 kA
Nominal discharge current I _n (8/20) µs (L-N)	12.5 kA
Nominal discharge current I _n (8/20) µs (L-PEN)	12.5 kA
Maximum discharge current I _{max} (8/20) μs	50 kA
Maximum discharge current I _{max} (8/20) μs (L-N)	50 kA
Maximum discharge current I _{max} (8/20) μs (L-PEN)	50 kA
Impulse discharge current (10/350) µs (L-N), charge	6.25 As
Impulse discharge current (10/350) µs (L-N), specific energy	39 kJ/Ω
Impulse discharge current (10/350) μs (L-N), peak current value I _{imp}	12.5 kA
Impulse discharge current (10/350) µs (L-PEN), charge	6.25 As
Impulse discharge current (10/350) µs (L-PEN), specific energy	39 kJ/Ω
Impulse discharge current (10/350) μs (L-PEN), peak current value I_{imp}	12.5 kA



Technical data

Protective circuit

Total discharge current I _{Total} (8/20) μs	12.5 kA
Total discharge current I _{Total} (10/350) μs	12.5 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 0.8 kV
Voltage protection level U _p (L-N)	≤ 0.8 kV
Voltage protection level U _p (L-PEN)	≤ 0.8 kV
Residual voltage U _{res}	\leq 0.8 kV (at I _n)
	≤ 1.5 kV (at 30 kA)
	≤ 0.7 kV (at 10 kA)
	≤ 0.6 kV (at 5 kA)
	≤ 0.55 kV (at 3 kA)
TOV behavior at U_T	208 V AC (5 s / withstand mode)
TOV behavior at U _T (L-N)	208 V AC (5 s / withstand mode)
TOV behavior at U _T (L-PEN)	208 V AC (5 s / withstand mode)
Response time t _A	≤ 25 ns
Response time t _A (L-N)	≤ 25 ns
Response time t _A (L-PEN)	≤ 25 ns
Max. backup fuse with branch wiring	160 A AC (gG)
Max. backup fuse with V-type through wiring	80 A (gG - 16 mm²)

Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	35 mm ²
AWG conductor cross section	15 2
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130802



Classifications

eCl@ss

eCl@ss 7.0	27130802
eCl@ss 8.0	27130802

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000381
ETIM 5.0	EC000381

UNSPSC

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

Approvals

Approval	S
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Approvals

EAC

Ex Approvals

Approvals submitted

Approval details

EAC

Accessories

Accessories

Bridge



Accessories

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 200 mm

Wiring bridge - MPB 18/1-10/1.0.0 - 2830443



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

Wiring bridge - MPB 18/4-12 - 2809296



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.



Accessories

Wiring bridge - MPB 18/4-8 - 2809283



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

Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.



Accessories

Wiring bridge - MPB 18/1-8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

- MPB 18/1- 3 - 2809212

Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm



Accessories

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: 18 x 5 mm

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: 18 x 5 mm

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



Accessories

Type 1/2 surge protection plug - VAL-MS-T1/T2 175/12.5 ST - 2800676



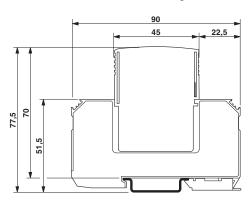
L-N replacement plug for VAL-MS-T1/T2 175/12.5 plug-in lighting/surge arrester.

Drawings





Dimensioned drawing



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