

VAL-MS-T1/T2 335/12.5/1+0


Order No.: 2801041



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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).

Commercial data

EAN	 4 046356 698108
Pack	1 pcs.
Customs tariff	85363030
Gross weight in pieces	0.19055 kg
Catalog page information	Page 35 (C-6-2013)

Product notes

WEEE/RoHS-compliant since:
13.09.2011



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Dimensions

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

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

Housing material	PBT / PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	EN 60664-1 EN 61643-11
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical
Direction of action	L-N / L-PEN

Protective circuit

IEC test classification	I / II T1 / T2
EN type	T1 / T2
Nominal voltage U_N	240 V AC
Maximum continuous operating voltage U_C	335 V AC
U_T (TOV-proof)	415 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Rated load current I_L	80 A (with serial 16mm ² through wiring)
Residual current I_{PE}	≤ 5 μA
Standby power consumption P_C	≤ 268 mVA
Max. discharge current I_{max} (8/20) μs maximum (L-PEN)	50 kA
Nominal discharge current I_n (8/20) μs (L-PEN)	12.5 kA
Impulse discharge current (10/350) μs charge	6.25 As
Impulse discharge current (10/350) □μs, specific energy	39.00 kJ/Ω
Impulse discharge current (10/350) □μs, peak value I_{imp}	12.5 kA
Voltage protection level U_p (L-N)	≤ 1.2 kV ≤ 1.6 kV (30 kA - 8/20μs)

Residual voltage (L-N)	≤ 1.2 kV
	≤ 1.1 kV (at 10 kA)
	≤ 1 kV (at 5 kA)
	≤ 0.9 kV (at 3 kA)
Response time	≤ 25 ns
Response time (L-N)	≤ 25 ns
Max. required backup fuse with branch wiring	160 A (gL/gG)
Max. required backup fuse with V-type through wiring	80 A (gL/gG / with 16 mm ²)
Short-circuit resistance I _p with max. backup fuse (effective)	25 kA _{rms}

Connection, protective circuit

Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	1.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG/kcmil min.	15
Conductor cross section AWG/kcmil max	2

Standards and Regulations

Standards/regulations	IEC 61643-1 2005
	EN 61643-11/A11 2007

Certificates

Certification

Certifications applied for:

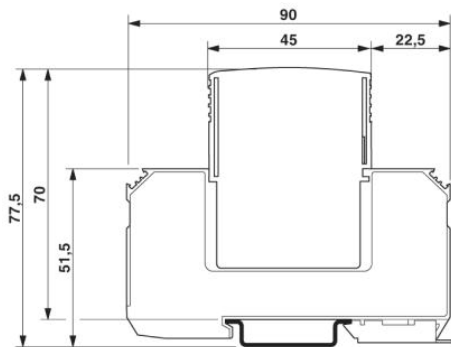
Certification Ex:

Accessories

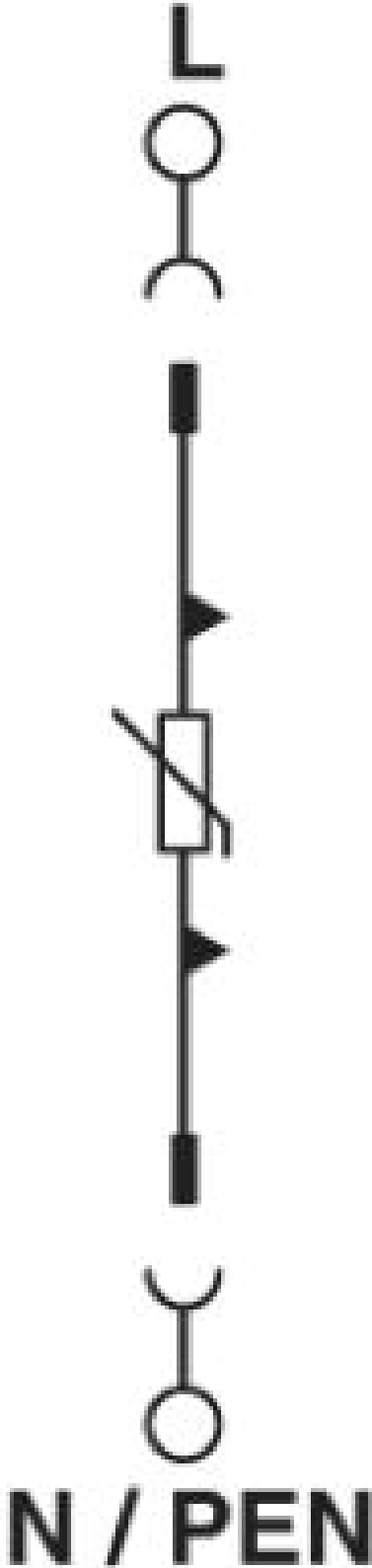
Item	Designation	Description
General		
2749880	DK-BIC-35	Feed-through terminal block for VAL and FLT applications
Marking		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0800763	ZBN 18:SO/CMS	Zack marker strip, white, for terminal block width: 18 mm
2809128	ZBN 18:UNBEDRUCKT	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

Drawings

Dimensioned drawing



Circuit diagram



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