

2801489

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The VAL-MS-AR 350 VF is a hybrid SPD with a gas discharge tube in series with a metal oxide varistor and thermal monitor, ideal for applications where no leakage current can be tolerated. The VAL-MS BE-AR base provides a disconnect that separates the field wire from the protected mode for field diagnosis. Independent input and output terminals on the same side with ground terminals on the opposite end. All terminals are high-current screw clamping for stripped or ferruled, solid or stranded wires.

Your advantages

- · Separate field and house wire termination
- · Tool-free field wire disconnect and test point
- · IP20 touch safe when connected
- · VF plug has zero leakage current

Commercial data

Item number	2801489
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1321
Catalog page	Page 47 (C-6-2015)
GTIN	4046356879514
Weight per piece (including packing)	174.8 g
Weight per piece (excluding packing)	174.8 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Product properties

Product type	Surge protection for NEMA power supply units
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
Туре	DIN rail module, two-section, divisible
Surge protection fault message	optical

Data management status

Article revision	09
ALLICIE TEVISION	US

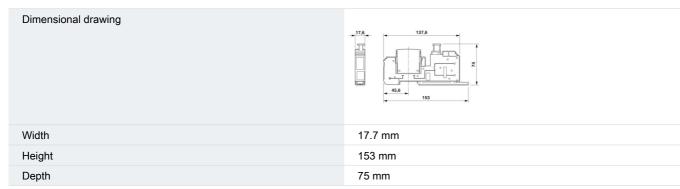
Electrical properties

Nominal frequency f _N	50 Hz (60 Hz)
Nominal voltage U _N	230 V AC
Nominal current I _N	76 A (at 30°C ambient temperature)

Connection data

5 Nm (Ground) 1.8 Nm (House)
1.8 Nm (House)
• •
3 Nm (Field)
35 mm² (16 mm strip length)
15 mm² (10 mm strip length)
25 mm² (14 mm strip length)
35 mm² (16 mm strip length)
15 mm² (10 mm strip length)
25 mm² (14 mm strip length)
mm strip length)
mm strip length)
mm strip length)

Dimensions





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Material specifications

Color	black (RAL 9005)
	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PA

Protective circuit

Direction of action	1L-N/PE
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage $\mathbf{U}_{\mathbf{C}}$	350 V AC
Rated load current I _L	55 A (with 6 AWG)
Nominal discharge current I _n (8/20) µs	10 kA
Maximum discharge current I _{max} (8/20) μs	20 kA
Total discharge current I _{total} (8/20) μs	20 kA
Total discharge current I _{total} (10/350) μs	3 kA
Voltage protection level U _p	≤ 1.2 kV
Total surge current (10/350) µs	3 kA
Total surge current (8/20) µs	15 kA
Max. backup fuse with branch wiring	125 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (when disconnect closed)
	IP20
Ambient temperature (operation)	-40 °C 80 °C
Altitude	max. 3000 m
Permissible humidity (operation)	5 % 95 %
Permissible humidity (storage/transport)	5 % 95 %
Shock (operation)	10g
Vibration (operation)	2g (0 Hz 200 Hz)

Mounting

Mounting type	DIN rail mounting with additional retaining screw

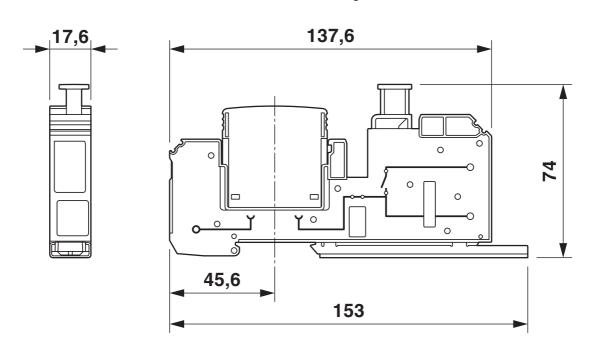


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Drawings

Dimensional drawing

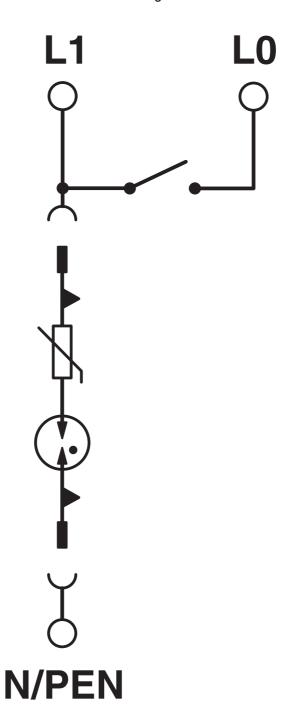




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Circuit diagram





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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27130805
	ECLASS-13.0	27171202
ΕT	ТІМ	
	ETIM 9.0	EC000941
UN	NSPSC	

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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