

Type 2 surge protection base element - VAL-MS-T1/T2 BE/O-FM - 2905652

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Base element for type 1/2 arresters from the VALVETRAB MS T1/T2 product range, with remote indication contact. Version: 1-channel

Why buy this product

- Plug-in direction parallel to the conductor axis
- Versions with and without floating remote indication contact
- Rack-mount 2U panel applications
- Accepts Type 1 and Type 2 VAL-MS plugs.
- Coding when protective plug is inserted for the first time
- DIN rail mounting



Key Commercial Data

Packing unit	12 pc
Minimum order quantity	12 pc
GTIN	
GTIN	4046356983372

Technical data

Dimensions

Height	77.1 mm
Width	17.6 mm
Depth	89.2 mm

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	max. 2000 m

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Technical data

Ambient conditions

Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g
Vibration (operation)	5g

General

IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PBT
Degree of pollution	2
Flammability rating according to UL 94	V0
Type	Base element, DIN rail mounting
Number of positions	1
Surge protection fault message	Remote indication contact

Additional descriptions

Note	For installation into a touch protected cabinet. For applications with $U_c > 500$ V distances at the side and distances at the connection area must be minimum of 5 mm between different active parts including earthed parts.
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Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_c	600 V AC
Rated load current I_L	80 A (with serial 16mm ² through wiring)
	80 A (with serial 16mm ² through wiring)
Short-circuit current rating I_{SCCR}	25 kA
Max. backup fuse with V-type through wiring	80 A AC (gL/gG)
Max. backup fuse with branch wiring	160 A (gL/gG)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC ... 250 V AC
	125 V AC (UL)
	30 V DC
Operating current	5 mA AC ... 1 A
	1 A (UL)
	1 A
Connection method	Screw connection
Screw thread	M2

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Indicator/remote signaling

Tightening torque	0.25 Nm
	0.25 Nm
	4 lb _F -in. (UL)
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG	28 ... 16 (IEC)
	30 ... 14 (UL)

Connection data

Connection method	Biconnect terminal blocks
Screw thread	M5
Tightening torque	3 Nm ... 4.5 Nm (UL)
	27 lb _F -in. ... 40 lb _F -in. (UL)
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible 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	15 ... 2 (IEC)
	10 ... 2 (UL)

UL specifications

SPD Type	4 (for Type 2 applications)
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Standards and Regulations

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

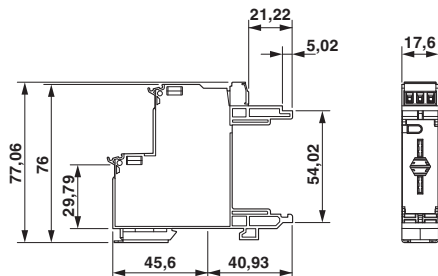
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

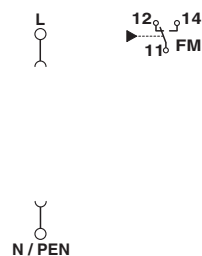
Drawings

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Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

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