

2905650

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

### Your advantages

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

#### Commercial data

Item number	2905650
Packing unit	12 pc
Minimum order quantity	12 pc
Sales key	CL18
Product key	CL1151
Catalog page	Page 49 (C-4-2019)
GTIN	4046356983006
Weight per piece (including packing)	95 g
Weight per piece (excluding packing)	81 g
Customs tariff number	85363030
Country of origin	US



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### Technical data

#### Notes

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

### Product properties

Product type	Base element
Product family	VALVETRAB MS
IEC test classification	1/11
	T1 / T2
EN type	T1 / T2
Туре	Base element, DIN rail mounting
Number of positions	1
Surge protection fault message	none

#### Data management status

Article revision	00
Insulation characteristics	

## Overvoltage category

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Pollution degree	2

### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Nominal voltage U <sub>N</sub>	500 V AC

#### Connection data

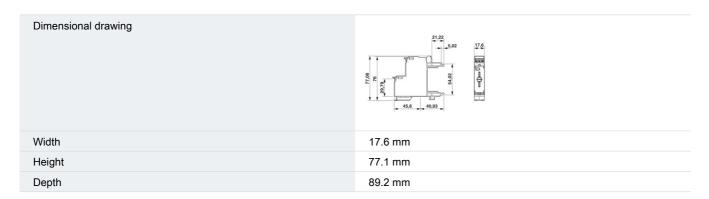
Connection method	Biconnect terminal blocks
Screw thread	M5
Tightening torque	30 lb <sub>f</sub> in. (UL)
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm²
Conductor cross section flexible max.	25 mm²
Conductor cross section, rigid min.	1.5 mm²
Conductor cross section, rigid max.	35 mm²
Conductor cross section AWG	15 2 (IEC)
	10 2 (UL)

#### **Dimensions**



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#### Material specifications

Color	black (RAL 9005)
	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing material	PBT

### Mechanical properties

#### Mechanical data

Open side panel	No
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#### Protective circuit

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	600 V AC
Rated load current I <sub>L</sub>	80 A (with serial 16mm² through wiring)
	80 A (with serial 16mm² through wiring)
Short-circuit current rating I <sub>SCCR</sub>	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)

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C 80 °C
Altitude	max. 2000 m
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g
Vibration (operation)	5g

### Approvals

#### UL specifications

SPD Type 4 (for Ty	rpe 2 applications)
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### Standards and regulations



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Standards/specifications	IEC 61643-1
Note	2005
Standards/specifications	EN 61643-11/A11
Note	2007

### Mounting

Mounting type	DIN rail: 35 mm
Mounting position	Horizontal, flat-mounted DIN rail, NS 35

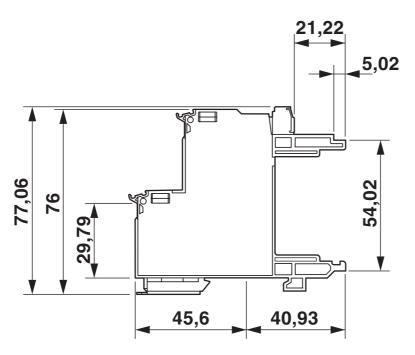


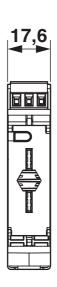
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## Drawings

### Dimensional drawing





FM version shown

Circuit diagram







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### **Approvals**

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cUL Recognized

Approval ID: FILE E 330181



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## Classifications

#### **ECLASS**

	ECLASS-11.0	27130803		
	ECLASS-13.0	27171292		
ETIM				
	ETIM 9.0	EC002496		
UNSPSC				
	UNSPSC 21.0	39121600		



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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