

# VAL-MS BE/2+0/1U/FM - Base element



2907037

<https://www.phoenixcontact.com/us/products/2907037>

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Universal plug-in surge arrester base for up to 240 V applications with two conductors plus ground, with remote indication contact

## Your advantages

- Dual-channel, panel mountable surge protective device
- Orthogonal mounting orientation to plug
- Base element with floating remote indication contact

## Commercial data

Item number	2907037
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	NULL
Product key	CL1151
Catalog page	Page 66 (C-4-2019)
GTIN	4055626248967
Weight per piece (including packing)	143.45 g
Weight per piece (excluding packing)	143.45 g
Customs tariff number	85363030
Country of origin	US

## Technical data

### Notes

#### General

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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### Product properties

IEC test classification	I / II
	T1 / T2
	I
EN type	T1 / T2
IEC power supply system	TN-S
Type	Base element, DIN rail mounting
Product type	Base element
Product family	VALVETRAB MS
Number of positions	2
Surge protection fault message	Remote indication contact

#### Insulation characteristics

Pollution degree	2
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### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC ... 250 V AC
	125 V AC (UL)
	125 V DC (200 mA DC)
Operating current	5 mA AC ... 1.5 A
	1 A (UL)
	1 A (30 V DC)

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	2.5 Nm ... 3 Nm
	22 lb <sub>F</sub> -in. ... 26.5 lb <sub>F</sub> -in. (UL)
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm <sup>2</sup>
Conductor cross section flexible max.	25 mm <sup>2</sup>

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Conductor cross section, rigid min.	1.5 mm <sup>2</sup>
Conductor cross section, rigid max.	35 mm <sup>2</sup>
Conductor cross section AWG	15 ... 2
	10 ... 2 (UL)

## Remote fault indicator contact

Connection method	Push-in spring connection
Stripping length	6 mm
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	0.5 mm <sup>2</sup>
Conductor cross section, rigid min.	0.14 mm <sup>2</sup>
Conductor cross section, rigid max.	0.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 20 (UL)

## Dimensions

Dimensional drawing	
Width	70.6 mm
Height	40.6 mm
Height unit	1 U
Depth	71.7 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6
	PBT

## Mechanical properties

### Mechanical data

Open side panel	No
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## Protective circuit

Mode of protection	L-PE
	N-PE
Direction of action	N-PE
	L-PE
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	480 V AC
Short-circuit current rating $I_{SCCR}$	25 kA
Max. backup fuse with V-type through wiring	80 A AC (gG - 16 mm <sup>2</sup> )

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Max. backup fuse with branch wiring	160 A AC (gG)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	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)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

## Approvals

### UL specifications

SPD Type	4CA
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### UL indicator/remote signaling

Operating voltage	125 V AC
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### UL connection data

Tightening torque	30 lb <sub>F</sub> ·in.
Conductor cross section AWG	10 ... 2

## Mounting

Mounting type	DIN rail: 35 mm
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## Classifications

### ECLASS

ECLASS-11.0	27130803
ECLASS-13.0	27171292

### ETIM

ETIM 9.0	EC002496
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)