

# VAL-MS 4\_V/BE/FM - Surge protection base-element



2908725

<https://www.phoenixcontact.com/us/products/2908725>

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Base element matches type 2 arresters of the VALVETRAB MS series, 5 pos. integrated remote signaling output for use with DC systems protection.

## Commercial data

Item number	2908725
Packing unit	2 pc
Minimum order quantity	1 pc
Product key	CL1321
GTIN	4055626345208
Weight per piece (including packing)	309.85 g
Weight per piece (excluding packing)	309.85 g
Country of origin	CN

## Technical data

### Product properties

Product type	Base element
Product family	VALVETRAB MS
IEC test classification	PV II
	PV T1 / T2
EN type	T1 / T2
Type	Base element, DIN rail mounting
Number of positions	4
Environment	Indoor
Accessibility	Accessible
End-of-life mode	OCM
Surge protection fault message	Optical, remote indicator contact

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

#### Indicator/remote signaling

Operating voltage	5 V AC ... 250 V AC (30 V DC)
Operating current	5 mA AC ... 1.5 A AC (1 A DC)

### Connection data

Connection method	Screw terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section rigid	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection method	MC 1,5/3 ST
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Material group	I

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Housing material	PBT
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## Mechanical properties

### Mechanical data

Open side panel	No
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## Protective circuit

Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)
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### Protective circuit DC voltage side (DC)

Maximum continuous operating voltage $U_{CPV}$	1170 V DC
Short-circuit current rating $I_{SCPV}$	2000 A
Insulation resistance $R_{iso}$	> 5 G $\Omega$ (at 500 V DC)
Maximum continuous operating voltage $U_{CPV}$	1170 V DC
Short-circuit current rating $I_{SCPV}$	2000 A

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	EN 50539-11
Note	2013

## Mounting

Mounting type	DIN rail: 35 mm
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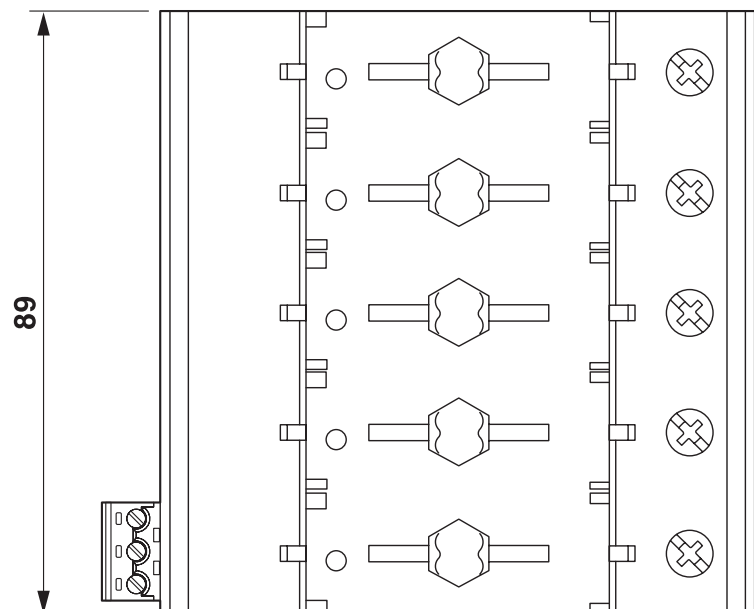
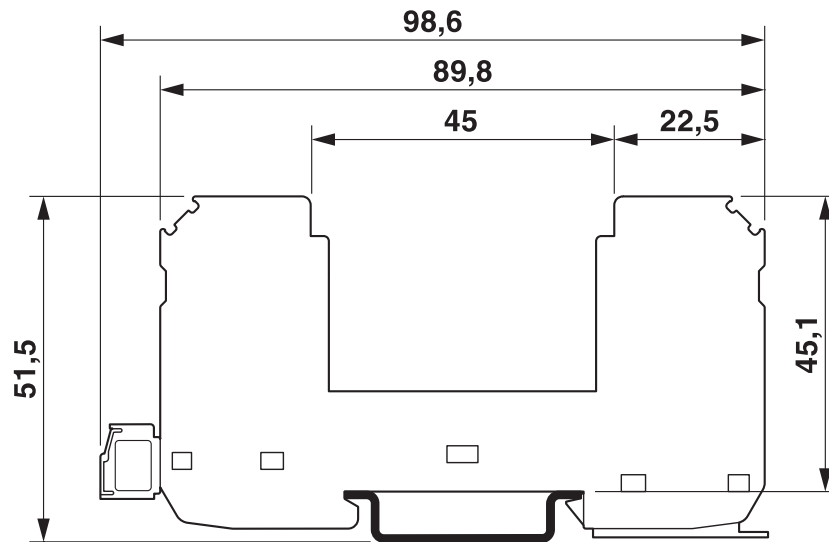


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## Drawings

Dimensional drawing



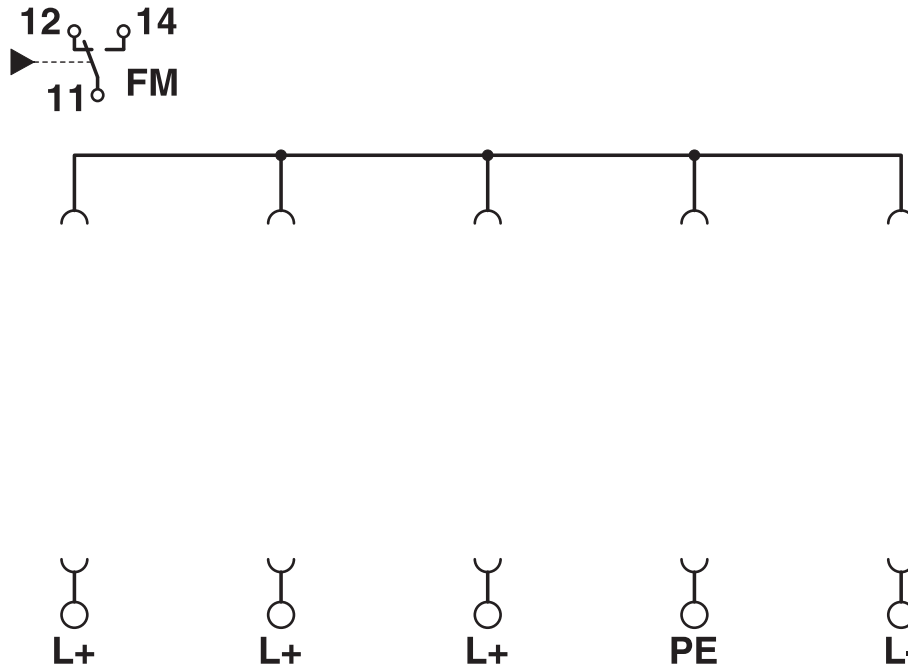
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

### ETIM

ETIM 10.0	EC002496
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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