

# VAL-MS 75X350/3EQ - Type 2 surge protection device



2905250

<https://www.phoenixcontact.com/us/products/2905250>

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Equalizer surge protective device, 3-mode, type 2 arresters for 2-wire signals up to 75 V

## Your advantages

- 3-Mode equalizer protection
- Mechanical coding of all slots
- Optical, mechanical status indication for the individual arresters
- Type 2 consistent plug-in surge arresters

## Commercial data

Item number	2905250
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4046356958547
Weight per piece (including packing)	291.9 g
Weight per piece (excluding packing)	291.9 g
Customs tariff number	85363010
Country of origin	DE

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## 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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#### Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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### Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	optical

#### Data management status

Article revision	03
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#### Insulation characteristics

Pollution degree	2
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### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
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### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	26.5 lb <sub>F</sub> -in. ... 30 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>
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	14 ... 2 (UL)

### Dimensions

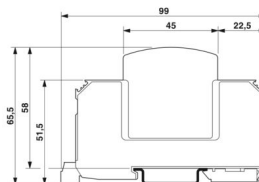
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Dimensional drawing



Width	53.4 mm
Height	90 mm
Depth	65.5 mm

## Material specifications

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

## Protective circuit

Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-N)	60 V
Maximum continuous operating voltage $U_C$ (L-PE)	230 V
Rated load current $I_L$	80 A (Serial through wiring at 16 mm <sup>2</sup> )
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE)	10 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s (L-N)	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s (L-PE)	20 kA
Voltage protection level $U_p$ (L-L)	60 V DC
	250 V AC
Voltage protection level $U_p$ (L-N)	$\leq 700$ V
Voltage protection level $U_p$ (L-PE)	$\leq 1500$ V
Voltage protection level $U_p$ (L+) - (L-)	$\leq 700$ V
Voltage protection level $U_p$ (L+/L-) - PE	$\leq 1500$ V
Response time $t_A$	$\leq 25$ ns
Max. backup fuse with V-type through wiring	80 A (gL/gG)
Max. backup fuse with branch wiring	200 A (gL/gG)

## Environmental and real-life conditions

### Ambient conditions

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

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## Approvals

### UL connection data

Conductor cross section AWG	14 ... 2
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## Standards and regulations

### Air clearances and creepage distances

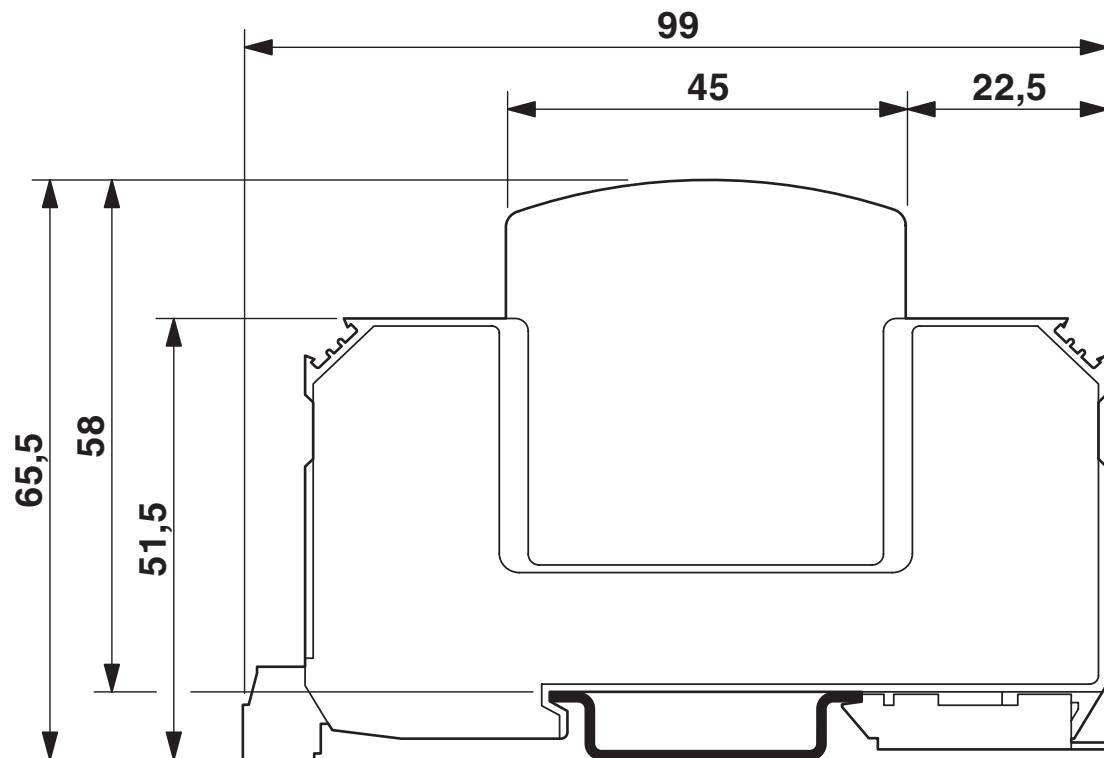
Standards/regulations	EN 60664-1 / EN 61643-1
Standards/specifications	IEC 61643-11
Standards/specifications	EN 61643-11

## Mounting

Mounting type	DIN rail: 35 mm
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## Drawings

Dimensional drawing



The figure shows the dimensional drawing for a version with remote indicator contact

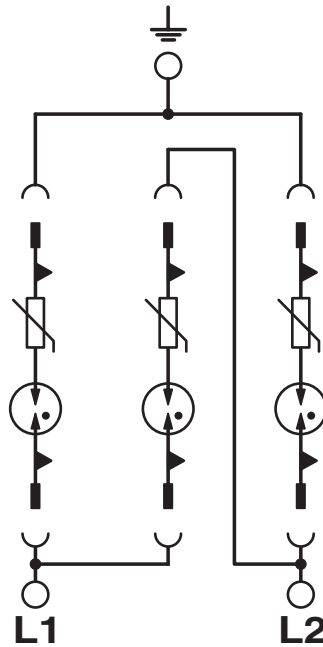
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-11.0	27130805
ECLASS-13.0	27171202

### ETIM

ETIM 9.0	EC000941
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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-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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