

# VAL-CP-MCB-1S-350/40/FM - Type 2 surge arrester



2882763

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Combination of type 2 surge protection and arrester backup fuse, with monitoring of arrester and arrester backup fuse, in combination with a remote indication contact. Design: 3-conductor system (L1, N, PE), mounting on NS 35 DIN rail

## Your advantages

- Combinations of type 2 arresters with integrated arrester backup fuse
- Signaling to monitoring systems via remote indication contact in the event of an error
- Overload of the surge protection results in all-pos. disconnection from the mains
- Type 2 consistent plug-in surge arresters
- Optical, mechanical status indication for the individual arresters

## Commercial data

Item number	2882763
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1314
GTIN	4046356175821
Weight per piece (including packing)	501.5 g
Weight per piece (excluding packing)	501.5 g
Country of origin	HU

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## Technical data

### Product properties

Product type	Surge arrester
Product family	SEC Family
IEC test classification	II T2
EN type	T2
IEC power supply system	TN-S TT
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact
Number of ports	One

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### 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	250 V AC 250 V DC
Operating current	1 mA AC ... 2 A AC 1 mA DC ... 50 mA DC

### Connection data

#### Connection protective circuit

Connection method	Screw connection
Tightening torque	3.5 Nm
Stripping length	14 mm
Conductor cross-section flexible	4 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section rigid	4 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section AWG	18 ... 2

#### Protective ground connection

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

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2882763

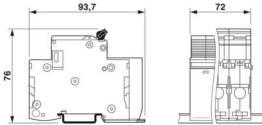
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Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section AWG	12 ... 4

## Remote fault indicator contact

Connection method	Pluggable screw connection
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>
Conductor cross-section AWG	28 ... 16

## Dimensions

Dimensional drawing	
Width	72 mm
Height	101 mm
Depth	76 mm
Horizontal pitch	4 Div.

## Material specifications

Color	light gray (RAL 7035) black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT-FR
Material group	I
Housing material	PBT-FR

## Protective circuit

Mode of protection	L-N L-PE N-PE
Direction of action	1L-N & N-PE
Nominal voltage $U_N$	240 V AC (TN-S) 240 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-N)	350 V AC
Maximum continuous operating voltage $U_C$ (L-PE)	350 V AC
Maximum continuous operating voltage $U_C$ (N-PE)	264 V AC
Protective conductor current $I_{PE}$	$\leq 1 \mu A$

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2882763

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Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)	15 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE)	15 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (N-PE)	20 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	30 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A
Short-circuit current rating $I_{SCCR}$	25 kA
Voltage protection level $U_p$ (L-N)	$\leq 2.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.7$ kV
Residual voltage $U_{res}$ (L-N)	$\leq 2.3$ kV (at $I_n$ )
	$\leq 1.6$ kV (at 10 kA)
	$\leq 1.3$ kV (at 5 kA)
	$\leq 1$ kV (at 3 kA)
Residual voltage $U_{res}$ (L-PE)	$\leq 2.5$ kV (at $I_n$ )
	$\leq 2$ kV (at 10 kA)
	$\leq 1.5$ kV (at 5 kA)
	$\leq 1.1$ kV (at 3 kA)
Residual voltage $U_{res}$ (N-PE)	$\leq 1.2$ kV (at 10 kA)
	$\leq 0.8$ kV (at 5 kA)
	$\leq 0.5$ kV (at 4 kA)
	$\leq 0.3$ kV (at 3 kA)
TOV behavior at $U_T$ (L-N)	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior at $U_T$ (N-PE)	1200 V AC (200 ms / withstand mode)
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Response time $t_A$ (N-PE)	$\leq 100$ ns
Max. backup fuse with V-type through wiring	40 A (gG)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012
Standards/specifications	IEC 60364-4-443
Standards/specifications	IEC 60364-5-534

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## Mounting

Mounting type	DIN rail: 35 mm
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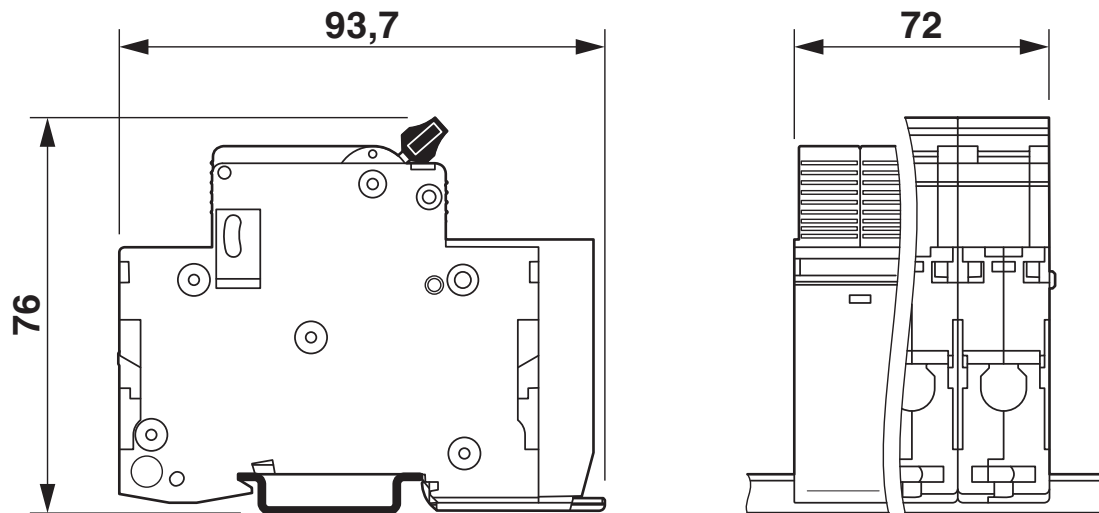


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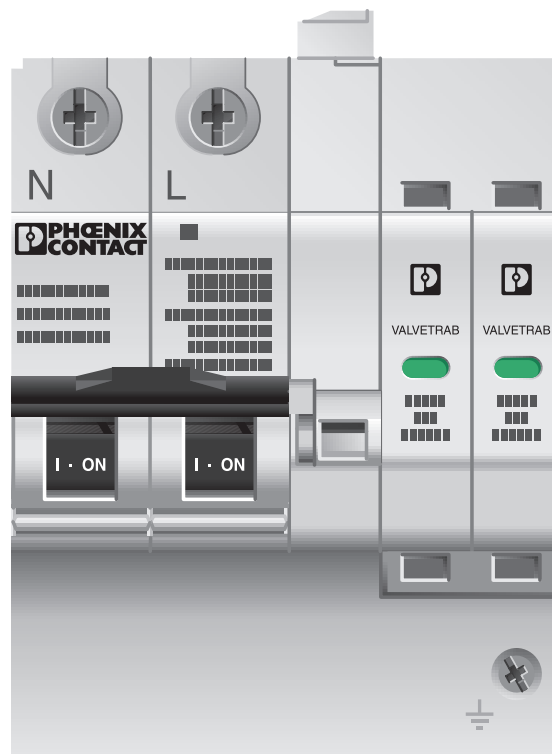
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## Drawings

Dimensional drawing



Product drawing



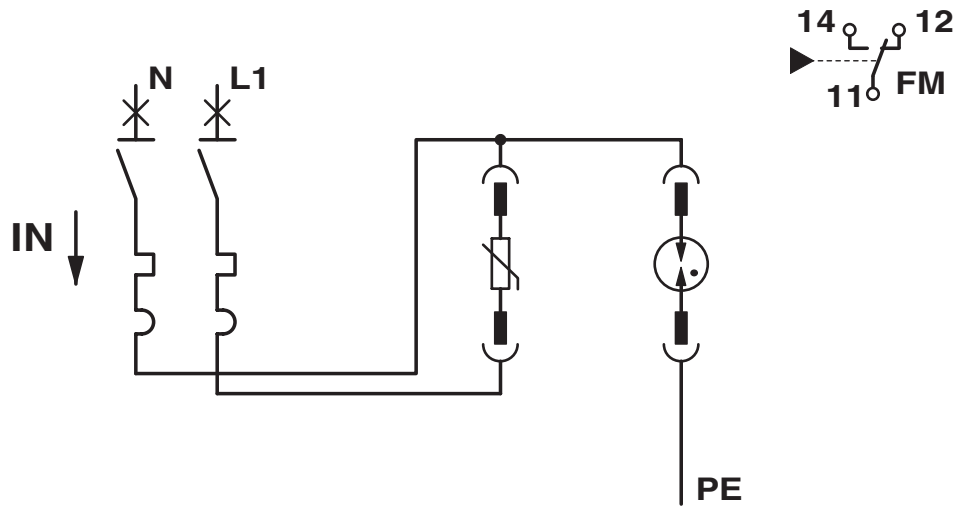
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Circuit diagram



# VAL-CP-MCB-1S-350/40/FM - Type 2 surge arrester



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2882763>



**IECEE CB Scheme**

Approval ID: NL-71431

**CCA**

Approval ID: NTR-NL 7873



**KEMA-KEUR**

Approval ID: 71-117871

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## Classifications

### ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

### ETIM

ETIM 10.0	EC000941
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	cc914863-2a58-4649-a33e-4433fd7ffd6e

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