VAL-CP-MCB-3S-350/40/FM - Type 2 surge arrester

2882750

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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: 5-conductor system (L1, L2, L3, 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

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2882750
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1314
GTIN	4046356175845
Weight per piece (including packing)	904 g
Weight per piece (excluding packing)	914 g
Country of origin	HU

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	4
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)

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 mm² ... 25 mm²
Conductor cross-section rigid	4 mm² ... 35 mm²
Conductor cross-section AWG	18 ... 2

Protective ground connection

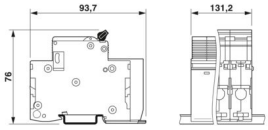
Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

Conductor cross-section flexible	2.5 mm² ... 16 mm²
Conductor cross-section rigid	2.5 mm² ... 25 mm²
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 mm² ... 1.5 mm²
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section AWG	28 ... 16

Dimensions

Dimensional drawing	
Width	131.5 mm
Height	101 mm
Depth	76 mm
Horizontal pitch	7.5 HP

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	3L-N & N-PE
Nominal voltage U_N	240/415 V AC (TN-S)
	240/415 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}	≤ 1 µA

Nominal discharge current I_n (8/20) µs (L-N)	15 kA
Nominal discharge current I_n (8/20) µs (L-PE)	15 kA
Nominal discharge current I_n (8/20) µs (N-PE)	20 kA
Maximum discharge current I_{max} (8/20) µs	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)	≤ 2.5 kV
Voltage protection level U_p (N-PE)	≤ 1.7 kV
Residual voltage U_{res} (L-N)	≤ 2.3 kV (at I_n)
	≤ 1.6 kV (at 10 kA)
	≤ 1.3 kV (at 5 kA)
	≤ 1 kV (at 3 kA)
Residual voltage U_{res} (L-PE)	≤ 2.5 kV (at I_n)
	≤ 2 kV (at 10 kA)
	≤ 1.5 kV (at 5 kA)
	≤ 1.1 kV (at 3 kA)
Residual voltage U_{res} (N-PE)	≤ 1.2 kV (at 10 kA)
	≤ 0.8 kV (at 5 kA)
	≤ 0.5 kV (at 4 kA)
	≤ 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)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 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	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

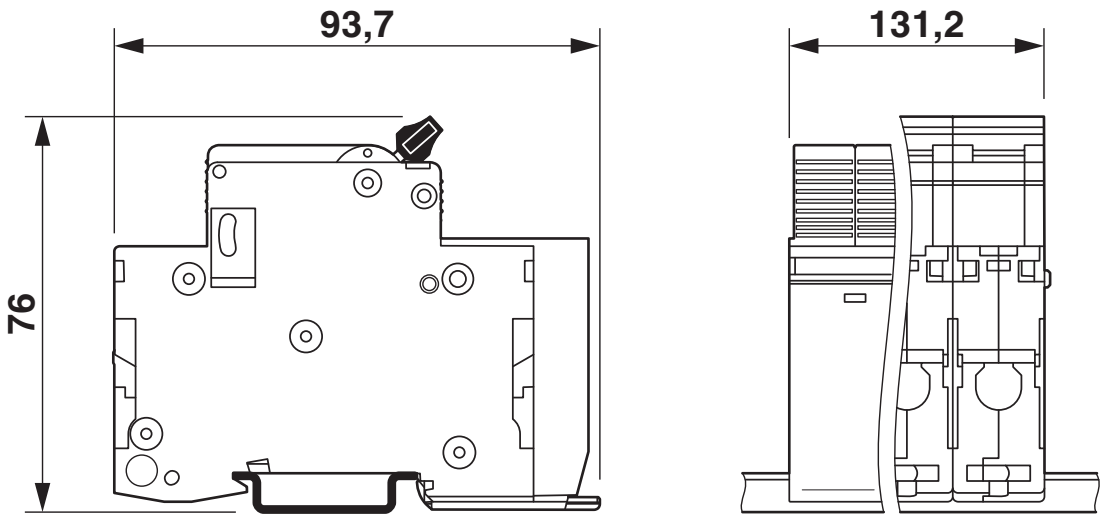
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012
Standards/specifications	IEC 60364-4-443
Standards/specifications	IEC 60364-5-534

Mounting

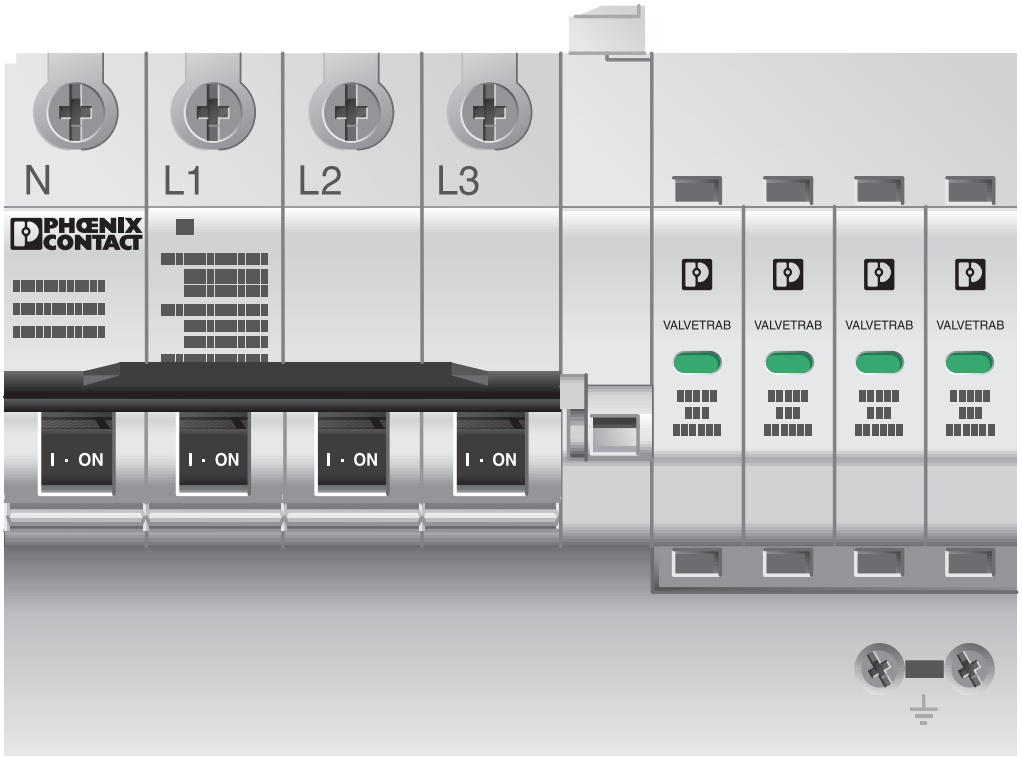
Mounting type	DIN rail: 35 mm

Drawings

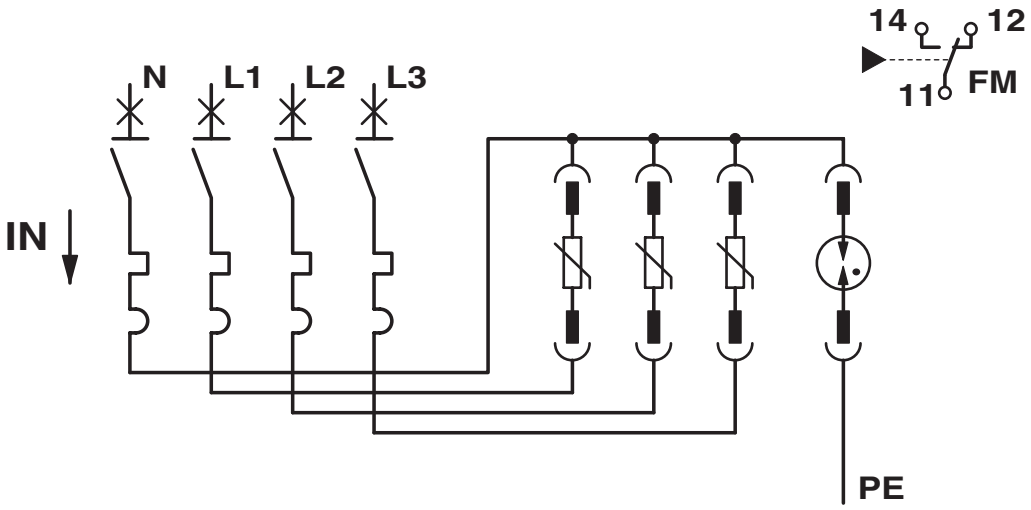
Dimensional drawing



Product drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2882750

IECEE CB Scheme
Approval ID: NL-71431

CCA
Approval ID: NTR-NL 7873

KEMA-KEUR
Approval ID: 71-117871

Classifications

ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

ETIM

ETIM 10.0	EC000941

UNSPSC

UNSPSC 21.0	39121600

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	7da3058d-71e3-4554-8cf8-c16179ea0bda

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