

Type 2 surge arrester - VAL-CP-3C-350 VF - 2859534

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Plug-in type 2 arrester (surge arrester) free of leakage current for 3-phase power supply networks with N and PE in a common conductor (4-conductor system: L1, L2, L3, PEN), with remote indication contact.

Your advantages

- ✓ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- ✓ With floating remote indication contact
- ✓ Modular arrester blocks with ultra-narrow design
- ✓ Type 2 consistent plug-in surge arresters
- ✓ Versions free of leakage current through series connection of varistor and surge arrester
- ✓ Optical, mechanical status indication for the individual arresters
- ✓ Mechanical coding of all slots
- ✓ Disconnect device on each individual plug



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4017918980559

Technical data

Dimensions

Height	98.5 mm
Width	37.25 mm
Depth	70 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

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Technical data

General

IEC power supply system	TN-C
Housing material	PBT
Flammability rating according to UL 94	V0
Color	gray
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1
Overvoltage category	III
Degree of pollution	2
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Direction of action	3L-N/PE

Protective circuit

IEC test classification	II
	T2
EN type	T2
Maximum continuous operating voltage U_C (L-PEN)	350 V AC
U_T (TOV-proof)	350 V AC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Rated load current I_L	40 A (40 A ... 63 A)
Residual current I_{PE}	$\leq 1 \mu A$ (Residual current I_{PE})
Standby power consumption P_C	≤ 0.35 mW
Power consumption without load P_c	≤ 0.35 mW
Max. discharge current I_{max} (8/20) μs maximum (L-PEN)	60 kA (all channels)
Nominal discharge current I_n (8/20) μs (L-PEN)	10 kA (1 channel)
	30 kA (all channels)
Front of wave sparkover voltage at 6 kV (1.2/50) μs (L-PEN)	≤ 1.5 kV
Voltage protection level U_p (L-PEN)	≤ 1.5 kV
Residual voltage (L-PEN)	≤ 1.1 kV (at I_n)
	≤ 1 kV (at 5 kA)
	≤ 0.9 kV (at 3 kA)
Clamping voltage ringwave (L-PEN)	≤ 1.3 kV (category C3 20 kV/10 kA)
	≤ 1.2 kV (category C2 10 kV/5 kA)
	≤ 1.1 kV (category B3/C1 6 kV/3 kA)
Response time t_A (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	125 A (gL/gG)
Max. backup fuse with V-type through wiring	40 A
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	25 kA

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Connection, protective circuit

Connection method	Screw connection
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	16 mm ²
Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	25 mm ²
Conductor cross section AWG min.	12
Conductor cross section AWG max.	4

Remote indication contact

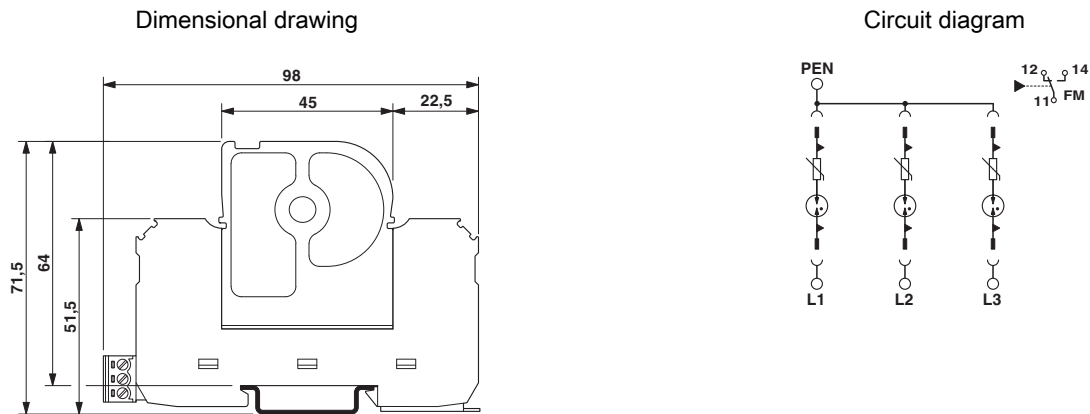
Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Maximum operating voltage U _{max} AC	250 V AC
Maximum operating voltage U _{max} DC	125 V DC
Max. operating current I _{max}	1 A AC (inductive)
	1 A AC (ohmic)
	30 mA DC (inductive)
	200 mA DC (ohmic)
Min. permissible switching capacity	0.12 VA (12 V, 10 mA)

Standards and Regulations

Standards/regulations	IEC 61643-1 1998
	DIN EN 61643-11 2002
	UL 1449
	IEEE C62.1 / C62.34 / C62.45

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Drawings



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