Type 2 surge arrester - VAL-CP-2C-175 - 2859482

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

Your advantages

- With or without floating remote indication contact
- Plugs can be checked with CHECKMASTER
- High continuous voltage of 175 V AC for 120/208 V AC networks with high voltage fluctuations
- Mechanical coding of all slots
- Optical, mechanical status indication for the individual arresters
- Disconnect device on each individual plug
- Type 2 consistent plug-in surge arresters
- Modular arrester blocks with ultra-narrow design
- Use of varistors with a low leakage current

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 045483
GTIN	4046356045483

Technical data

Dimensions

Height	98 mm
Width	25.3 mm
Depth	71.5 mm
Horizontal pitch	1.4 Div.

Ambient conditions

Degree of protection	IP20

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Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	gray/blue
	black
Housing material	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal voltage U_N	120/208 V AC (TN-C)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-PEN)	175 V AC
Rated load current I_L	40 A (Biconnect M4 fork-type cable lug 6 mm²)
	63 A (TWIN ferrule 2 x 10 mm²)
Nominal discharge current I_n (8/20) µs (L-PEN)	20 kA
Maximum discharge current I_{max} (8/20) µs (L-PEN)	40 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p (L-PEN)	≤ 0.85 kV
Residual voltage U_{res} (L-PEN)	≤ 0.85 kV (at I_n)
	≤ 0.75 kV (at 10 kA)
	≤ 0.65 kV (at 5 kA)
	≤ 0.63 kV (at 4 kA)
	≤ 0.57 kV (at 2 kA)
TOV behavior at U_T (L-PEN)	240 V AC (5 s / withstand mode)
	240 V AC (120 min / safe failure mode)
Response time t_A (L-PEN)	≤ 25 ns

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Protective circuit

Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm²)
	63 A (gG / TWIN ferrule 2x 10mm²)
Max. backup fuse with branch wiring	315 A (gG)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC ... 1 A AC
	1 A DC (30 V DC)
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 solid	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16

Connection data

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 solid	2.5 mm² ... 25 mm²
Conductor cross section AWG	12 ... 4

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-L)	350 V AC
Maximum continuous operating voltage MCOV (L-N)	175 V AC
Nom. voltage	120/240 V AC
Mode of protection	L-L
	L-N
Power distribution system	Split phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	2010 V
Measured limiting voltage MLV (L-N)	1510 V
Nominal discharge current I_n (L-L)	20 kA
Nominal discharge current I_n (L-N)	20 kA

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