

FLT-CP-3S-BE - Base element

2880914

<https://www.phoenixcontact.com/us/products/2880914>

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Base element for type 1+2 special combined lightning current and surge arrester from the FLASHTRAB compact product series. Version for 3-phase power supplies with separate cable routing of N and PE.

Commercial data

Item number	2880914
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	CL1211
GTIN	4046356049160
Weight per piece (including packing)	778.9 g
Weight per piece (excluding packing)	594.53 g
Country of origin	DE

Technical data

Product properties

Product type	Base element
IEC test classification	I + II
	T1 + T2
Surge protection fault message	Remote indication contact
Number of ports	One

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	240 V AC

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	12 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
	1 A DC (30 V DC)

Connection data

Connection method	Screw terminal blocks
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm ² ... 25 mm ²
Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Conductor cross-section AWG	13 ... 2

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross-section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross-section AWG	28 ... 16

Material specifications

Flammability rating according to UL 94	V - 0
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CTI value of material	600
Insulating material	PBT
Material group	I
Housing material	PBT

Protective circuit

Direction of action	3L-N/PE
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 (N-PE)	350 V AC
Rated load current I_L	125 A (< 55 °C)
Short-circuit current rating I_{SCCR}	25 kA
Max. backup fuse with V-type through wiring	125 A (gG)
Max. backup fuse with branch wiring	315 A (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... -80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (asml)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g
Vibration (operation)	5g (10 Hz ... 500 Hz)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-N)	264 V AC
Maximum continuous operating voltage MCOV (N-G)	264 V AC
Nominal frequency	50/60 Hz

UL indicator/remote signaling

Operating voltage	125 V AC
AC operating current	1.5 A AC

UL connection data

Tightening torque	40 lb _F in.
Conductor cross-section AWG	12 ... 2

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

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Mounting

Mounting type	DIN rail: 35 mm
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Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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