

SYS-N4XP FLT-CP 240S - Surge protection device



2801549
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Indoor/outdoor lightning current arrester and TVSS system for 120/240 V split single-phase system in a NEMA 4X polycarbonate enclosure

Product description

Combination lightning current arrester and TVSS for 120/240 split phase

Your advantages

- With floating remote indication contact
- Optical, mechanical status indication for the individual arresters

Commercial data

Item number	2801549
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1212
GTIN	4055626029870
Weight per piece (including packing)	222.222 kg
Weight per piece (excluding packing)	222.222 kg
Customs tariff number	85361010
Country of origin	DE

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Set consists of

FLT-SEC-T1+T2-2S-350/25-FM - Type 1+2 special combined lightning current and surge arrester

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Plug-in lightning and surge arrester combination, in accordance with Type 1+2/Class I+II, for 2-phase power supply networks, with separate N and PE (L1, L2, PE, N).

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Technical data

Product properties

IEC test classification	I + II
	T1 + T2
	T1
	I
EN type	T1 + T2
	T1
Surge protection fault message	Remote indication contact

Electrical properties

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

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Maximum operating voltage $U_{max. AC}$	250 V AC
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
	40 lb _F in. (UL)
Stripping length	18 mm
Conductor cross section flexible	2.5 mm ² ... 35 mm ²
Conductor cross section rigid	2.5 mm ² ... 35 mm ²
Conductor cross section AWG	13 ... 2
	12 ... 2 (UL)

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

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Dimensions

Width	360 mm
Height	400 mm
Depth	185 mm

Material specifications

Flammability rating according to UL 94	V0
Housing material	Polycarbonate, PC

Protective circuit

Direction of action	2L-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 (N-PE)	350 V AC
Rated load current I_L	125 A (< 55 °C)
Residual current I_{PE}	≤ 0.01 mA
Nominal discharge current I_n (8/20) μs (L-N)	25 kA
Nominal discharge current I_n (8/20) μs (L-PE)	25 kA
Nominal discharge current I_n (8/20) μs (N-PE)	100 kA
Follow current quenching capacity I_{fi} (L-N)	25 kA (264 V AC)
	3 kA (350 V AC)
Follow current interrupt rating I_{fi} (N-PE)	100 A (350 V AC)
Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
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 (N-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	125 A AC (gG)
	125 A AC (gG)
Max. backup fuse with branch wiring	315 A AC (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66 / NEMA 4X
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

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Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-L)	528 V AC
Maximum continuous operating voltage MCOV (L-N)	264 V AC
Voltage protection rating VPR (L-L)	2 kV
Voltage protection rating VPR (L-N)	1.2 kV
UL type	type 2
Nominal discharge current I_n (L-L)	20 kA

Mounting

Mounting type	Surface/Wall mounting
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Classifications

ECLASS

ECLASS-11.0	27130805
ECLASS-13.0	27171202

UNSPSC

UNSPSC 21.0	39121620
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	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)

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