

# 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)	545.596 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
Number of ports	One

### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
Nominal voltage $U_N$	$\leq 240$ 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 <sub>F</sub> -in. (UL)
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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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	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)
Protective conductor 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/Panel mounting
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## Classifications

### ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

### ETIM

ETIM 10.0	EC000941
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### 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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