

# SYS-N4XP FLT-CP 240/415Y - Surge protection device



2801551

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Indoor/outdoor lightning current arrester and TVSS system for 240/415 V Wye system in a NEMA 4X polycarbonate enclosure

## Product description

Combination lightning current arrester and TVSS for 240/415Y

## Your advantages

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

## Commercial data

Item number	2801551
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1212
GTIN	4055626029894
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+T2-3S-350/25-FM - Type 1+2 special combined lightning current and surge arrester

2905470

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Plug-in lightning and surge arrester combination, in accordance with Type 1+2/Class I+II, for 3-phase power supply networks, with separate N and PE (L1, L2, L3, 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	Optical, remote indicator 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 $U_N$	$\leq 240$ 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

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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>
Conductor cross-section AWG	28 ... 16

## Dimensions

Width	360 mm
Height	400 mm
Depth	185 mm

## Material specifications

Flammability rating according to UL 94	V0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF PBT-FR
Material group	I
Housing material	PC PA 6.6-FR 20 % GF PBT-FR

## Protective circuit

Direction of action	3L-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)
Short-circuit current rating $I_{SCCR}$	25 kA (264 V AC) 3 kA (350 V AC)
Voltage protection level $U_p$ (L-N)	≤ 1.5 kV
Voltage protection level $U_p$ (N-PE)	≤ 1.5 kV
Residual voltage $U_{res}$ (L-N)	≤ 1.5 kV (at $I_n$ ) ≤ 1.2 kV (at 10 kA) ≤ 1 kV (at 5 kA) ≤ 0.9 kV (at 3 kA) ≤ 2.2 kV (at $I_n$ )

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Residual voltage $U_{res}$ (L-PE)	$\leq 2$ kV (at 10 kA)
	$\leq 1.8$ kV (at 5 kA)
	$\leq 1.6$ kV (at 3 kA)
Residual voltage $U_{res}$ (N-PE)	$\leq 1.5$ kV (at $I_n$ )
	1 kV (at 10 kA)
	$\leq 0.9$ kV (at 5 kA)
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)	$\leq 25$ ns
Response time $t_A$ (N-PE)	$\leq 100$ 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)

## Additional technical data

Maximum discharge current $I_{max}$ (8/20) $\mu$ s	100 kA
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66 (when door is latched and all additional fittings and accessories have similar or better rating.)
	IP66/NEMA 4X
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Approvals

### UL specifications

Maximum continuous operating voltage MCOV (L-L)	528 V AC
Maximum continuous operating voltage MCOV (L-N)	264 V AC
Maximum continuous operating voltage MCOV (L-G)	264 V AC
Maximum continuous operating voltage MCOV (N-G)	350 V AC
Short-circuit current rating (SCCR)	50 kA
Voltage protection rating VPR (L-L)	2 kV
Voltage protection rating VPR (L-N)	1.2 kV
Voltage protection rating VPR (L-G)	1500 V
Voltage protection rating VPR (N-G)	1200 V
UL type	type 2
Nominal discharge current $I_n$ (L-L)	20 kA
Mode of protection	L-L
	L-N

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	L-G
	N-G
Nominal voltage	240/415 V AC
Rated load current $I_L$	50 A
Power distribution system	Wye
Nominal frequency	50/60 Hz
SPD Type	2CA

## UL indicator/remote signaling

Operating voltage	125 V AC
AC operating current	1 A AC

## UL connection data

Tightening torque	40 lb <sub>f</sub> -in.
Conductor cross-section AWG	3 ... 2

## Standards and regulations

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

## 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)