

# 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 |
|-----------------------------|-----------|

## 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) $\mu$ s (L-N)  | 25 kA                                  |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE) | 25 kA                                  |
| Nominal discharge current $I_n$ (8/20) $\mu$ s (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 |
|-----------|----------|

### 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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