

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



2801551

<https://www.phoenixcontact.com/us/products/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 | ≤ 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 |

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| | |
|----------------------------------|--|
| 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 |

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) | ≤ 2 kV (at 10 kA) |
| | ≤ 1.8 kV (at 5 kA) |
| | ≤ 1.6 kV (at 3 kA) |
| Residual voltage U_{res} (N-PE) | ≤ 1.5 kV (at I_n) |
| | 1 kV (at 10 kA) |
| | ≤ 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) | ≤ 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) |

Additional technical data

| | |
|--|--------|
| Maximum discharge current I_{max} (8/20) μ s | 100 kA |
|--|--------|

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 | ≤ 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 _f -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 |
|-----------|----------|

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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