

SYS N4 120/240HLD - Surge protection device



2800706

<https://www.phoenixcontact.com/us/products/2800706>

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Indoor/outdoor lightning current arrester and TVSS system for 120/208-240 V



Product description

Combination lightning current arrester and TVSS for 120/208-240 V. Components are housed in an IP66/NEMA 4 cabinet.

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2800706 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL01 |
| Product key | CL1621 |
| GTIN | 4046356642927 |
| Weight per piece (including packing) | 222.22 g |
| Weight per piece (excluding packing) | 222.22 g |
| Customs tariff number | 85363090 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------------------------|--|
| Product type | Surge protection for NEMA power supply units |
| IEC test classification | I + II |
| EN type | T1 |
| Type | Housing for surface mounting |
| Surge protection fault message | Remote indication contact |

Electrical properties

| | |
|-----------------------|-------------------------------------|
| Nominal voltage U_N | < 240 V |
| Fuse | 200 kA VSP100, 100 A, 200 kAIC (IR) |

General

| | |
|---------------|--------------------------|
| Power Systems | 120/240 V High-Leg Delta |
|---------------|--------------------------|

Connection data

| | |
|---------------------------------------|----------------------|
| Conductor cross-section flexible min. | 16 mm ² |
| Conductor cross-section flexible max. | 35 mm ² |
| Conductor cross-section, rigid min. | 10 mm ² |
| Conductor cross-section, rigid max. | 50 mm ² |
| Connection method | Screw connection |
| Conductor cross-section flexible min. | 0.14 mm ² |
| Conductor cross-section flexible max. | 1.5 mm ² |
| Conductor cross-section, rigid min. | 0.14 mm ² |
| Conductor cross-section, rigid max. | 1.5 mm ² |

Dimensions

| | |
|--------|--------|
| Width | 400 mm |
| Height | 500 mm |
| Depth | 210 mm |

Material specifications

| | |
|------------------|-------|
| Housing material | Steel |
|------------------|-------|

Protective circuit

| | |
|--|-------------------------------|
| Nominal voltage U_N | 120/240 V AC (High-Leg Delta) |
| Maximum continuous operating voltage U_C | 275 V AC |
| Follow current interrupt rating I_{fi} | 50 kA |
| Response time t_A | ≤ 25 ns |

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|-------------|
| Degree of protection | IP66/NEMA 4 |
|----------------------|-------------|

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| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C |
|---------------------------------|------------------|

Approvals

UL specifications

| | |
|-------------------------------------|-------------------------------|
| Short-circuit current rating (SCCR) | 50 kA |
| UL type | type 2 |
| Nominal discharge current I_n | 20 kA |
| Maximum Surge Current per Phase | 50 kA |
| Nominal voltage | 120/240 V AC (High-Leg Delta) |
| Power distribution system | HL-Delta |

Standards and regulations

Standards

| | |
|-----------------------|------------------------------------|
| Standards/regulations | ANSI/UL 1449:2014 Ed.4+R:17MAR2016 |
| | IEC 60643-1 |
| | EN 61643-11 |
| | CAN/CSA-C22.2 No. 8:2013 Ed.5 |

Mounting

| | |
|---------------|------------------------|
| Mounting type | Surface/Panel mounting |
|---------------|------------------------|

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Drawings

Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171202 |
|-------------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121620 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |
|---|---|

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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| | 4-Nonylphenol, branched and linear(CAS: n/a) |
| | Lead(CAS: 7439-92-1) |

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