

Surge protection device - SYS N4X/I 277/480Y - 2800718

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Indoor/outdoor lightning arrester and TVSS system for 277/480 V Wye system

Product description

Combination lightning arrester and TVSS for 277/480 V Wye. Components are housed in an IP66/NEMA 4X cabinet and include phase indicator lamps.



Key commercial data

| | |
|----------------------|---------------|
| Packing unit | 1 pc |
| Custom tariff number | 85363090 |
| Country of origin | United States |

Technical data

Dimensions

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

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP66 / NEMA 4X |
| Ambient temperature (operation) | -40 °C ... 80 °C |

General

| | |
|--------------------------------|--------------------------|
| NEMA power supply system | 277/480 V Wye |
| Housing material | Stainless steel |
| Mounting type | Surface/Wall mounting |
| Surge protection fault message | Remote indicator contact |

Protective circuit

| | |
|-------------------------|--------|
| IEC test classification | I + II |
|-------------------------|--------|

Surge protection device - SYS N4X/I 277/480Y - 2800718

Technical data

Protective circuit

| | |
|--|------------------|
| EN type | T1 |
| Nominal voltage U_N | < 277 V |
| Maximum continuous operating voltage U_C (L-PE) | 440 V AC |
| Impulse discharge current (10/350) μ s charge | 25 As |
| Impulse discharge current (10/350) μ s, peak value I_{imp} | 50 kA (per mode) |
| Response time | \leq 25 ns |
| Follow current quenching capacity I_f | 50 kA |

Connection, protective circuit

| | |
|--|--------------------|
| Connection method | Screw connection |
| Conductor cross section stranded min. | 16 mm ² |
| Conductor cross section stranded max. | 35 mm ² |
| Conductor cross section solid min. | 10 mm ² |
| Conductor cross section solid max. | 50 mm ² |
| Conductor cross section AWG/kcmil min. | 6 |
| Conductor cross section AWG/kcmil max | 1 |

Remote indicator contact

| | |
|--|----------------------|
| Connection method | Screw connection |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 1.5 mm ² |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section AWG/kcmil min. | 28 |
| Conductor cross section AWG/kcmil max | 16 |

NEMA / UL data

| | |
|---|--------|
| UL type | type 2 |
| Nominal discharge current I_n (without reference direction) | 20 kA |
| Maximum Surge Current per Phase | 50 kA |
| Short-circuit current rating (SCCR) | 50 kA |

Standards and Regulations

| | |
|-----------------------|---|
| Standards/regulations | UL 1449 3 rd edition, Sept. 2009 |
| | IEC 60643-1 |
| | EN 61643-11 |
| | CAN/CSA-C22.2 No. 8 |

Surge protection device - SYS N4X/I 277/480Y - 2800718

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27140201 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130805 |
| eCl@ss 7.0 | 27130805 |
| eCl@ss 8.0 | 27130805 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC000942 |
| ETIM 4.0 | EC000941 |
| ETIM 5.0 | EC000941 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

Approvals

ETLus / cETL / cETLus

Ex Approvals

Approvals submitted

Approval details

| |
|-------|
| ETLus |
|-------|

Surge protection device - SYS N4X/I 277/480Y - 2800718

Approvals

cETL

cETLus

Drawings

Circuit diagram

