

# SYS N4X 277/480Y - Surge protection device



2800713

<https://www.phoenixcontact.com/us/products/2800713>

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



## Product description

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2800713                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL01                           |
| Product key                          | CL1622                         |
| GTIN                                 | 4046356643290                  |
| 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 $U_N$ | < 277 V                             |
| Fuse                  | 200 kA VSP100, 100 A, 200 kAIC (IR) |

### General

|               |               |
|---------------|---------------|
| Power Systems | 277/480 V Wye |
|---------------|---------------|

### Connection data

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

### Dimensions

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

### Material specifications

|                  |                             |
|------------------|-----------------------------|
| Color            | Steel/stainless steel color |
|                  | black (RAL 9005)            |
| Housing material | Stainless steel 1.4404      |

### Protective circuit

|                                                   |                    |
|---------------------------------------------------|--------------------|
| Nominal voltage $U_N$                             | 277/480 V AC (Wye) |
| Maximum continuous operating voltage $U_C$ (L-L)  | 600 V AC           |
| Maximum continuous operating voltage $U_C$ (L-PE) | 440 V AC           |
| Follow current interrupt rating $I_{fi}$          | 50 kA              |
| Response time $t_A$                               | ≤ 25 ns            |

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## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP66/NEMA 4X     |
| 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                     | 277/480 V AC (Wye) |
| Power distribution system           | Wye                |

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

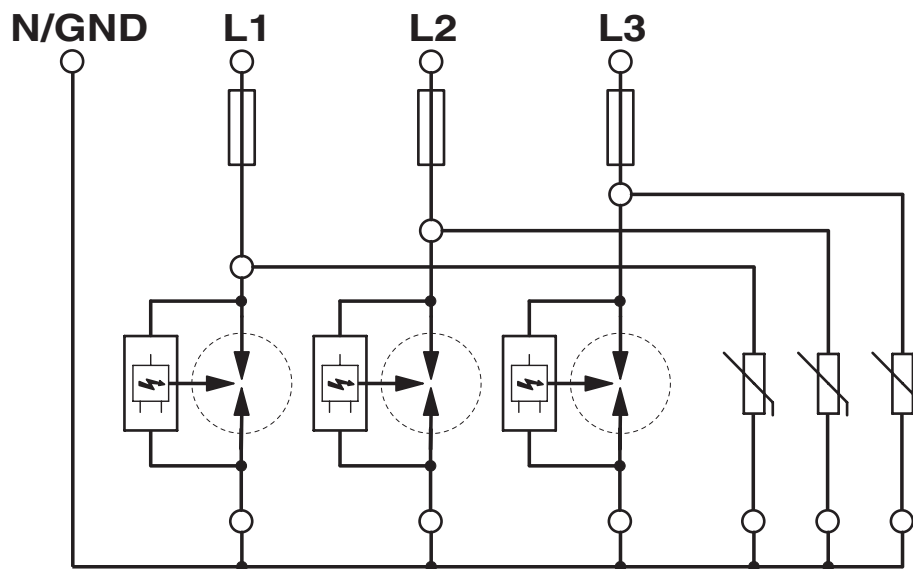
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC000941 |
|----------|----------|

### 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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