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## Surge protection device - SYS N4X 277/480Y - 2800713

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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.



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 1.0 GRM  |
| Custom tariff number                 | 85363090 |
| Country of origin                    | Germany  |

### 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

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## Technical data

### Protective circuit

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| IEC test classification                                          | I + II           |
| 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) $\mu$ s charge                | 25 As            |
| Impulse discharge current (10/350) $\mu$ 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 <sup>2</sup> |
| Conductor cross section stranded max.  | 35 mm <sup>2</sup> |
| Conductor cross section solid min.     | 10 mm <sup>2</sup> |
| Conductor cross section solid max.     | 50 mm <sup>2</sup> |
| 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 <sup>2</sup> |
| Conductor cross section stranded max.  | 1.5 mm <sup>2</sup>  |
| Conductor cross section solid min.     | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.     | 1.5 mm <sup>2</sup>  |
| 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 <sup>rd</sup> edition, Sept. 2009 |
|                       | IEC 60643-1                                 |
|                       | EN 61643-11                                 |
|                       | CAN/CSA-C22.2 No. 8                         |

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### 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

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Approvals

ETLus / cETL / cETLus

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Ex Approvals

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Approvals submitted

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#### Approval details

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| ETLus |
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## Surge protection device - SYS N4X 277/480Y - 2800713

### Approvals

cETL

cETLus

### Drawings

Circuit diagram

