

## Surge protection device - SYS N4X 120/240HLD - 2800716

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

### Product description

Combination lightning arrester and TVSS for 120/208-240 V. 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	120/240 V High-Leg Delta
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 $U_N$	< 240 V
Maximum continuous operating voltage $U_c$	275 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

ETLus
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## Approvals

cETL

cETLus

## Drawings

Circuit diagram

