

# SYS N4 120/240S - Surge protection device



2800705

<https://www.phoenixcontact.com/us/products/2800705>

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Indoor/outdoor lightning current arrester and TVSS system for 120/240 single/split phase



## Product description

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

## Commercial data

Item number	2800705
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1621
GTIN	4046356642910
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 Single/Split Phase
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### 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

Housing material	Steel
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### Protective circuit

Nominal voltage $U_N$	120/240 V AC (Split phase)
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
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## 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 (Split phase)
Power distribution system	Split phase

## 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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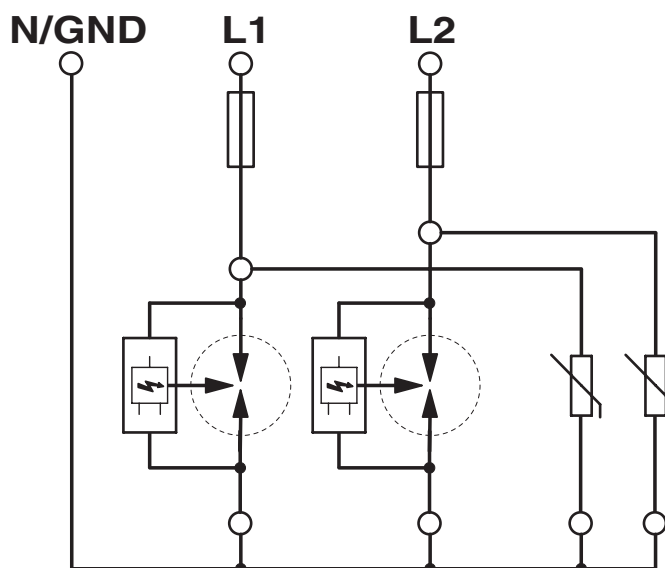
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## Drawings

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171202
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### 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
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### 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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