

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



2800718

<https://www.phoenixcontact.com/us/products/2800718>

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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 and include phase indicator lamps.

Commercial data

Item number	2800718
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1622
Catalog page	Page 69 (C-6-2013)
GTIN	4046356643344
Weight per piece (including packing)	222.22 g
Weight per piece (excluding packing)	222.22 g
Customs tariff number	85363090
Country of origin	US

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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
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Connection data

Conductor cross section flexible min.	16 mm ²
Conductor cross section flexible max.	35 mm ²
Conductor cross section, rigid min.	10 mm ²
Conductor cross section, rigid max.	50 mm ²
Connection method	Screw connection
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section, rigid min.	0.14 mm ²
Conductor cross section, rigid max.	1.5 mm ²

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/Wall mounting
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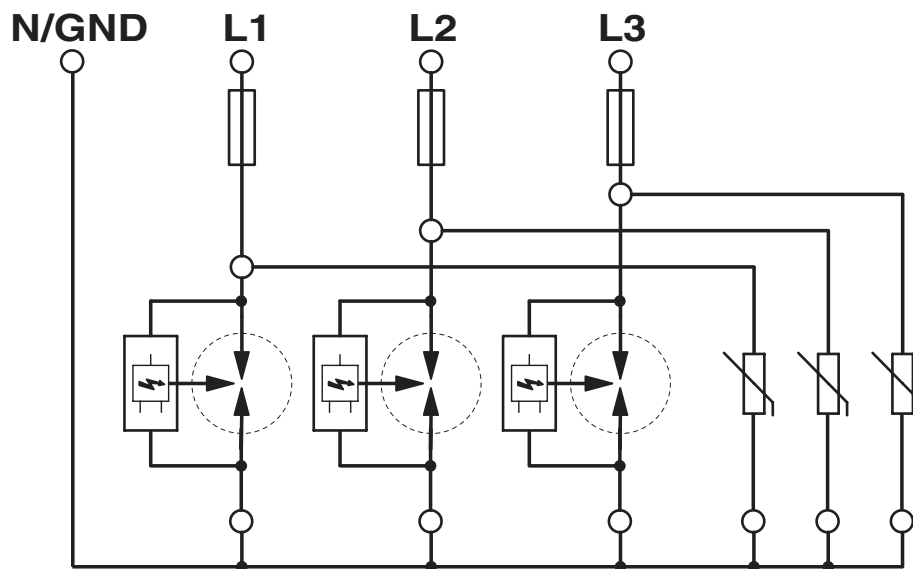
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Drawings

Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27130805
ECLASS-13.0	27171202

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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