

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Indoor/outdoor lightning current arrester and TVSS system for 120/240 V split single-phase system in a NEMA 4X polycarbonate enclosure

Product description

Combination lightning current arrester and TVSS for 120/240 split phase

Your advantages

- With floating remote indication contact
- Optical, mechanical status indication for the individual arresters

Commercial data

Item number	2801549
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1212
GTIN	4055626029870
Weight per piece (including packing)	222.222 kg
Weight per piece (excluding packing)	545.596 kg
Customs tariff number	85361010
Country of origin	DE

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Set consists of

FLT-SEC-T1+T2-2S-350/25-FM - Type 1+2 special combined lightning current and surge arrester

2905468

<https://www.phoenixcontact.com/us/products/2905468>



Plug-in lightning and surge arrester combination, in accordance with Type 1+2/Class I+II, for 2-phase power supply networks, with separate N and PE (L1, L2, PE, N).

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Technical data

Product properties

IEC test classification	I + II
	T1 + T2
	T1
	I
EN type	T1 + T2
	T1
Surge protection fault message	Remote indication contact
Number of ports	One

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	≤ 240 V
	240 V

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Maximum operating voltage $U_{max. AC}$	250 V AC
Operating voltage	12 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	10 mA AC ... 1 A AC
	1 A DC (30 V DC)

Connection data

Connection method	Screw terminal blocks
Screw thread	M5
Tightening torque	4.5 Nm
	40 lb _F -in. (UL)
Stripping length	18 mm
Conductor cross-section flexible	2.5 mm ² ... 35 mm ²
Conductor cross-section rigid	2.5 mm ² ... 35 mm ²
Conductor cross-section AWG	13 ... 2
	12 ... 2 (UL)

Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross-section rigid	0.14 mm ² ... 1.5 mm ²

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Conductor cross-section AWG	28 ... 16
-----------------------------	-----------

Dimensions

Width	360 mm
Height	400 mm
Depth	185 mm

Material specifications

Flammability rating according to UL 94	V0
Housing material	PC

Protective circuit

Direction of action	2L-N & N-PE
Nominal voltage U_N	240/415 V AC (TN-S)
	240/415 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-N)	350 V AC
Maximum continuous operating voltage U_C (N-PE)	350 V AC
Rated load current I_L	125 A (< 55 °C)
Protective conductor current I_{PE}	≤ 0.01 mA
Nominal discharge current I_n (8/20) μ s (L-N)	25 kA
Nominal discharge current I_n (8/20) μ s (L-PE)	25 kA
Nominal discharge current I_n (8/20) μ s (N-PE)	100 kA
Follow current quenching capacity I_{fi} (L-N)	25 kA (264 V AC)
	3 kA (350 V AC)
Follow current interrupt rating I_{fi} (N-PE)	100 A (350 V AC)
Voltage protection level U_p (L-N)	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
TOV behavior at U_T (L-N)	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / withstand mode)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (N-PE)	≤ 100 ns
Max. backup fuse with V-type through wiring	125 A AC (gG)
	125 A AC (gG)
Max. backup fuse with branch wiring	315 A AC (gG)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP66/NEMA 4X
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Approvals

UL specifications

Maximum continuous operating voltage MCOV (L-L)	528 V AC
Maximum continuous operating voltage MCOV (L-N)	264 V AC
Voltage protection rating VPR (L-L)	2 kV
Voltage protection rating VPR (L-N)	1.2 kV
UL type	type 2
Nominal discharge current I_n (L-L)	20 kA

Mounting

Mounting type	Surface/Panel mounting
---------------	------------------------

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Classifications

ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

ETIM

ETIM 10.0	EC000941
-----------	----------

UNSPSC

UNSPSC 21.0	39121620
-------------	----------

SYS-N4XP FLT-CP 240S - Surge protection device



2801549

<https://www.phoenixcontact.com/us/products/2801549>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Lead(CAS: 7439-92-1)
-------------------------------------	----------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com