

CHARX-PROTECT-11-22KW - Type 2 surge arrester



1380466

<https://www.phoenixcontact.com/in/products/1380466>

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CHARX protect retrofit, surge protection set for protecting charging stations with an output of 11 kW ... 22 kW, such as home chargers. Surge protective device consisting of a base element with Push-in connection technology, remote indication contact, and protective plugs, nominal voltage: 230 V AC, 3+1 wiring

Product description

CHARX-PROTECT-11-22KW is a surge protection set optimized for use with charging stations. The cable gland specifically selected for this purpose enables the insertion of commercially available H07RN-F cables of 2.5 mm² to 6 mm², without restricting the IP protection class.

Your advantages

- Fast installation and startup
- Flexible use with charging stations of 1 kW ... 22 kW
- Flexible selection of cable cross-sections thanks to the variable sealing area
- Time savings during wiring thanks to push-in connection technology
- No additional installation material required thanks to the through-wiring

Commercial data

Item number	1380466
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	DTHTMA
GTIN	4063151751746
Weight per piece (including packing)	2 kg
Weight per piece (excluding packing)	2 kg
Customs tariff number	85371098
Country of origin	DE

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Technical data

Product properties

Product type	Surge arrester
Product family	CHARX protect retrofit
IEC test classification	II
EN type	T2
Surge protection fault message	Optical, remote indicator contact

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact

Connection data

Connection method	Push-in connection
Stripping length	10 mm ... 12 mm
Conductor cross section rigid	0.5 mm ² ... 10 mm ²
Conductor cross section AWG	20 ... 8
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm ² ... 6 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm ² ... 10 mm ²

Remote fault indicator contact

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	30 ... 12

Dimensions

Width	130 mm
Height	180 mm
Depth	111 mm

Material specifications

Housing material	PC
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Protective circuit

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)	275 V AC

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Maximum continuous operating voltage U_C (N-PE)	260 V AC
Residual current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs	20 kA
Maximum discharge current I_{max} (8/20) μs	40 kA
Follow current interrupt rating I_{fi} (N-PE)	100 A
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p (L-N)	≤ 1.35 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Max. backup fuse with V-type through wiring	32 A (gG - 6 mm ²)
	35 A (gG - 10 mm ²)
	40 A (MCB C - 10 mm ²)

Environmental and real-life conditions

Ambient conditions

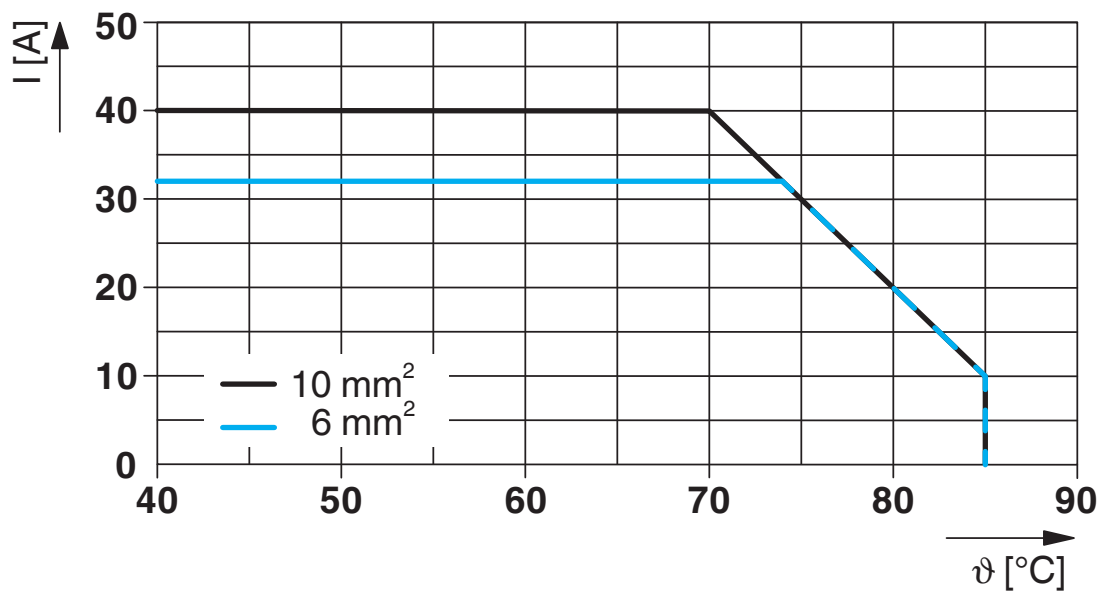
Degree of protection	IP65
Ambient temperature (operation)	-20 °C ... 40 °C
Ambient temperature (storage/transport)	-20 °C ... 40 °C
Permissible humidity (operation)	≤ 95 % (at 25 °C, non-condensing)

Standards and regulations

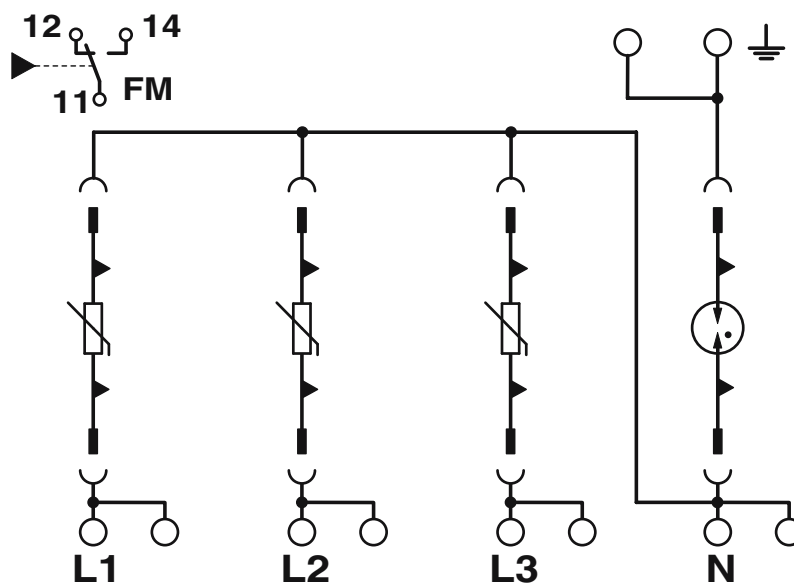
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Drawings

Diagram



Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27130805
ECLASS-13.0	27171202

ETIM

ETIM 9.0	EC000941
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

VAL-MS 230 P - Type 2 surge protection plug

1256118

<https://www.phoenixcontact.com/in/products/1256118>



Type 2 surge protection plug with high-capacity varistor for VAL-MS-PS base element, thermal monitoring, visual fault indication. Version: 230 V AC

F-MS 12 P - Type 2 surge protection plug

1256115

<https://www.phoenixcontact.com/in/products/1256115>



Type 2 surge protection plug with N-PE total current spark gaps for VAL-MS-PT base element.

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