

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Lightning/surge arrester, according to type 1/2 / class I/II, for 3-phase power supply networks with combined PE and N installed in one conductor (L1, L2, L3, PEN).

Product Features

- ✓ Very high TOV resistance
- ☑ Universal solution for various network types
- Meets installation requirements according to CLC/TS 50539-22
- Meets Lightning Protection Level I

- Local optical status indication
- Multi-stage status monitoring via remote indication contact





Key commercial data

Packing unit	1 pc
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	191 mm
Width	176 mm
Depth	280 mm

Ambient conditions

Degree of protection	IP20



Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
	-40 °C 55 °C (serial through wiring ≥ 35 mm²)
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 4000 m (NN)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g
Vibration (operation)	5g (10 500 Hz)

General

IEC power supply system	TN-C
	IT
Housing material	Die-cast aluminum, salt water resistant
Inflammability class according to UL 94	V2
Standards for air and creepage distances	DIN EN 60664-1
	EN 61643-11
Mounting type	Screw mounting
Туре	Mounting plate
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Direction of action	3L-PEN

Protective circuit

IEC test classification	1/11
	T1/T2
EN type	T1/T2
Lightning protection class	I
Nominal voltage U _N	690 V AC
Maximum continuous operating voltage U _C (L-PE)	800 V AC
U _⊤ (TOV-proof)	1500 V AC (5 sec.)
	1960 V AC (200 ms)
Nominal frequency f _N	50 Hz
	60 Hz
Rated load current I _L	150 A (Serial through wiring with 50 mm²)
Residual current I _{PE}	≤ 20 μA
Standby power consumption P _C	≤ 16 mVA
Max. discharge current I _{max} (8/20) µs maximum (L-PE)	100 kA (per position)
Nominal discharge current I _n (8/20) μs (L-PE)	35 kA (per position)
Impulse discharge current (10/350) µs charge	17.5 As



Technical data

Protective circuit

Impulse discharge current (10/350)#µs, specific energy	305 kJ/Ω
Impulse discharge current (10/350)#µs, peak value l _{imp}	35 kA (per position)
Front of wave sparkover voltage at 6 kV (1.2/50) µs (L-PE)	≤ 4.5 kV
Voltage protection level U _p (L-PE)	≤ 4.5 kV
Residual voltage (L-PE)	≤ 2.7 kV
	≤ 2.5 kV (at 20 kA)
	≤ 2.3 kV (at 10 kA)
	≤ 2.2 kV (at 5 kA)
	≤ 2.1 kV (at 3 kA)
Response time (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	400 A (gG; 2 x 50 mm²)
	800 A (aR (only up to limp = 25 kA))
Max. backup fuse with V-type through wiring	125 A (gG; ≥ 35 mm²)
Short-circuit resistance I _P with max. backup fuse (effective)	50 kA
Follow current quenching capacity If (L-PEN)	50 kA

Connection, protective circuit

Connection name	Double terminal point
Connection method	Screw connection
Screw thread	M6
Tightening torque	8.5 Nm
	75 lb _i -in. (UL)
Stripping length	24 mm
Conductor cross section stranded min.	16 mm²
Conductor cross section stranded max.	50 mm ²
Conductor cross section solid min.	16 mm²
Conductor cross section solid max.	50 mm ²
AWG conductor cross section	6 1/0
	6 1/0 (UL)
Connection name	PE conductor connection
Connection method	Ring cable lug
	M10 hexagonal head screw (ISO 4017/DIN 933)
Screw thread	M10
Tightening torque	20 Nm
	175 lb _f -in. (UL)
Conductor cross section stranded min.	16 mm²
Conductor cross section stranded max.	95 mm²



Technical data

Connection, protective circuit

Conductor cross section solid min.	16 mm ²
Conductor cross section solid max.	95 mm ²
AWG conductor cross section	6 3/0
	3/0 (UL)

Remote indicator contact

Connection name	Remote indicator contact
Switching function	N/C contact, 1-pos.
Screw thread	M3
Tightening torque	0.55 Nm
	7 lb _r in 5 lb _r in. (UL)
Stripping length	7 mm
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm ²
AWG conductor cross section	24 12
	24 12 (UL)
Maximum operating voltage U _{max.} AC	30 V AC
Maximum operating voltage U _{max} DC	30 V DC
Max. operating current I _{max}	1.5 A AC
	1.5 A DC

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27140201
eCl@ss 5.0	27140201
eCl@ss 5.1	27140201
eCl@ss 6.0	27140201
eCl@ss 7.0	27140201
eCl@ss 8.0	27140201



Classifications

ETIM

ETIM 2.0	EC000381
ETIM 3.0	EC000381
ETIM 4.0	EC000381
ETIM 5.0	EC000381

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals	A	pp	or	o	V	al	s
-----------	---	----	----	---	---	----	---

Approvals

IECEE CB Scheme / UL Recognized / KEMA-KEUR / ÖVE / cUL Recognized / CCA / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

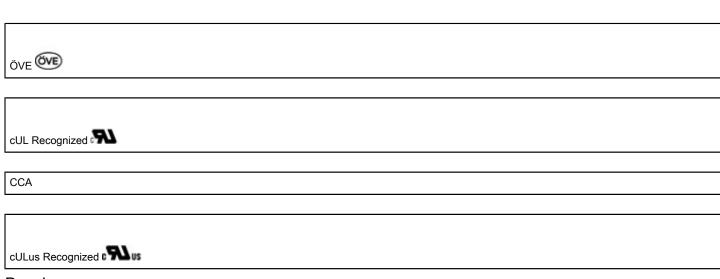
IECEE CB Scheme CB

UL Recognized **\$\)**

KEMA-KEUR KEMA

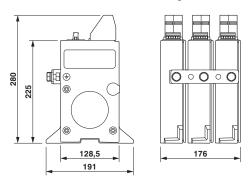


Approvals

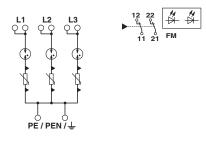


Drawings



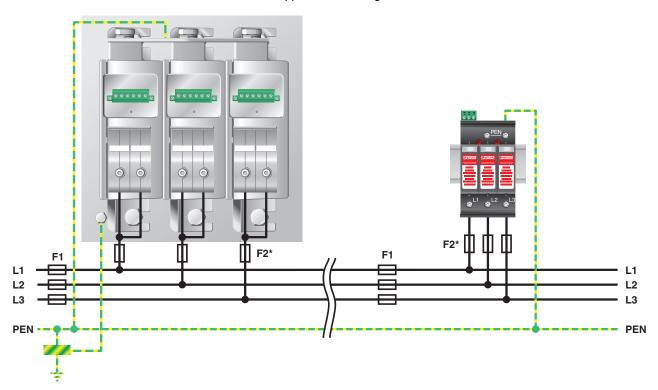


Circuit diagram



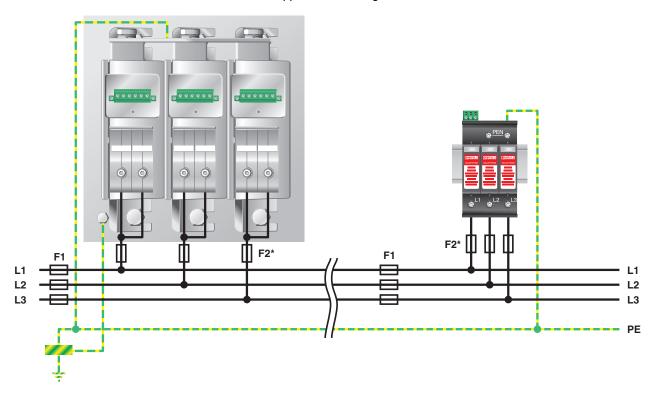


Application drawing

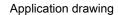


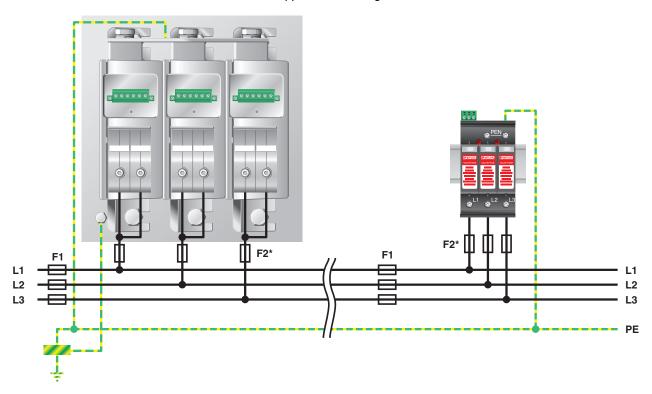


Application drawing









Phoenix Contact 2014 © - all rights reserved http://www.phoenixcontact.com