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Surge arrester for 4-conductor power supply systems (L1, L2, L3, PEN), consisting of a base element and protective connectors, for mounting on NS 35.

Product Features

- With or without floating remote indication contact
- Optical, mechanical status indication for the individual arresters
- Type 2 consistent plug-in surge arresters
- Disconnect device on each individual plug
- Mechanical coding of all slots
- Multi-channel type 2 arresters



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	400.0 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	53.4 mm
Depth	44 mm
Horizontal pitch	3 Div.
Ambient conditions	

Degree of protection	IP20 (only when all terminal points are used)

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	\leq 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
	IT
Number of ports	One
SPD design	Voltage-limiting type
Mode of protection	L-PEN
	L-PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Distance between live and grounded parts	5 mm
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	optical

Additional descriptions

	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_E = R_A$ accordance to IEC 60364-4-442 / VDE 0100-442 Fig. 44D / Example a)
Protective circuit	

 Nominal voltage U_N
 400/690 V AC (TN-C)



Technical data

Protective circuit

	500 V AC (IT)	
Nominal frequency f _N	50 Hz (60 Hz)	
Maximum continuous voltage U _c	580 V AC	
Rated load current IL	80 A	
Residual current I _{PE}	≤ 0.75 mA	
Standby power consumption P _c	≤ 450 mVA	
Nominal discharge current I_n (8/20) µs	15 kA	
Maximum discharge current I _{max} (8/20) µs	30 kA	
Short-circuit current rating I _{SCCR}	25 kA	
Voltage protection level U _p	≤ 2.5 kV	
Residual voltage U _{res}	\leq 2.5 kV (at I _n)	
	≤ 2.3 kV (at 10 kA)	
	≤ 2.1 kV (at 5 kA)	
	≤ 1.9 kV (at 3 kA)	
TOV behavior at U_{T}	690 V AC (5 s / withstand mode)	
	762 V AC (120 min / withstand mode)	
Response time t _A	≤ 25 ns	
Max. backup fuse with branch wiring	125 A (gG)	
Max. backup fuse with V-type through wiring	80 A (gG)	

Connection data

Connection method	Screw connection
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section solid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-L)	1160 V AC
Maximum continuous operating voltage MCOV (L-G)	580 V AC
Nom. voltage	400/690 V AC
Mode of protection	L-L
	L-G
Power distribution system	3D
Nominal frequency	50/60 Hz



Technical data

UL specifications

Measured limiting voltage MLV (L-L)	4270 V
Measured limiting voltage MLV (L-G)	2310 V
Nominal discharge current I _n (L-L)	10 kA
Nominal discharge current In (L-G)	10 kA

UL connection data

Conductor cross section AWG	10 2
Tightening torque	30 lb _r -in.

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

UNSPSC

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

Approvals

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

Ex Approvals

Approvals submitted

Approval details

UL Recognized 🔊

KEMA-KEUR

ÖVE OVE

cUL Recognized 🔊

CCA

IECEE CB Scheme

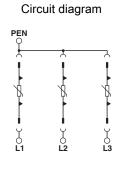
EAC

cULus Recognized

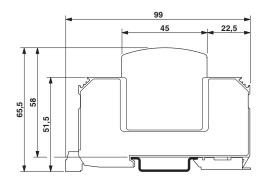
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Drawings

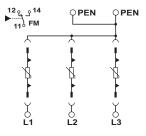


Dimensional drawing



The illustration shows the dimensional drawing for a version with remote indicator contact

Circuit diagram



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