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

Product Features

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





Key commercial data

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

Technical data

Dimensions

Height	99 mm
Width	53.4 mm
Depth	58 mm
Horizontal pitch	3 Div.

Ambient conditions

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



Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g
Vibration (operation)	5g

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
Number of ports	One
SPD design	Voltage-limiting type
Mode of protection	L-PEN
	L-PE
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PA 6.6
	PBT
Pollution degree	2
Distance between live and grounded parts	5 mm
Inflammability class according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

Additional descriptions

0100-442 Fig. 44D / Example a)

Protective circuit

Nominal voltage U _N	400/690 V AC (TN-C)
	500 V AC (IT)



Technical data

Protective circuit

Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U _C	580 V AC
Maximum continuous operating voltage U _C (L-PE)	580 V AC
Maximum continuous operating voltage U _C (L-PEN)	580 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.75 mA
Standby power consumption P _C	≤ 450 mVA
Nominal discharge current I _n (8/20) µs (L-PE)	15 kA
Nominal discharge current I _n (8/20) µs (L-PEN)	15 kA
Maximum discharge current I _{max} (8/20) μs	30 kA
Maximum discharge current I _{max} (8/20) μs (L-PE)	30 kA
Maximum discharge current I _{max} (8/20) μs (L-PEN)	30 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _ρ (L-PE)	≤ 2.5 kV
Voltage protection level U _p (L-PEN)	≤ 2.5 kV
Residual voltage U _{res} (L-PE)	\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)
Residual voltage U _{res} (L-PEN)	\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 _⊤ (L-PEN)	690 V AC (5 s / withstand mode)
Response time t _A (L-PE)	≤ 25 ns
Response time t _A (L-PEN)	≤ 25 ns
Max. backup fuse with branch wiring	125 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	125 V AC (UL)
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A AC (UL)



Technical data

Indicator/remote signaling

	1 A DC
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm
	4 lb _r -in. (UL)
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
AWG conductor cross section	28 16
	30 14 (UL)

Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	35 mm ²
AWG conductor cross section	15 2
	10 2 (UL)
Screw thread	M5
Tightening torque	4.5 Nm
	30 lb _r -in. (UL)
Stripping length	16 mm

UL specifications

UL class	Type 4 SPD for Type 2 applications
Maximum continuous operating voltage MCOV (L-L)	750 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
Voltage protection rating VPR (L-L)	4 kV
Voltage protection rating VPR (L-G)	2 kV
Nominal discharge current I _n (L-L)	10 kA



Technical data

UL specifications

Nominal discharge current I _n (L-G)	10 kA
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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

Approvals

Approvals

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

Ex Approvals

Approvals submitted



Approvals
Approval details
UL Recognized 51
KEMA-KEUR KEUR
ÖVE ÖVE
cUL Recognized • • • • • • • • • • • • • • • • • • •
GOST C
CCA
IECEE CB Scheme CB
KEMA-KEUR KEMA
ÖVE ÖVE
cULus Recognized CALUS



Accessories

Accessories

Bridge

Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 200 mm

Wiring bridge - MPB F400X16/ 1GS - 2818342



Wiring bridge flexible, diameter 16 mm², with a fork-type cable lug on one side, length: 400 mm

Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm², with a fork-type cable lug on one side, length: 600 mm

Device marking



Accessories

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

Labeled device marker

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Marker pen



Accessories

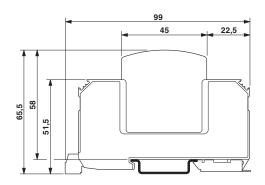
Marker pen - B-STIFT - 1051993



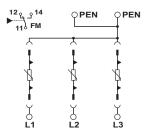
Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Drawings

Dimensioned drawing

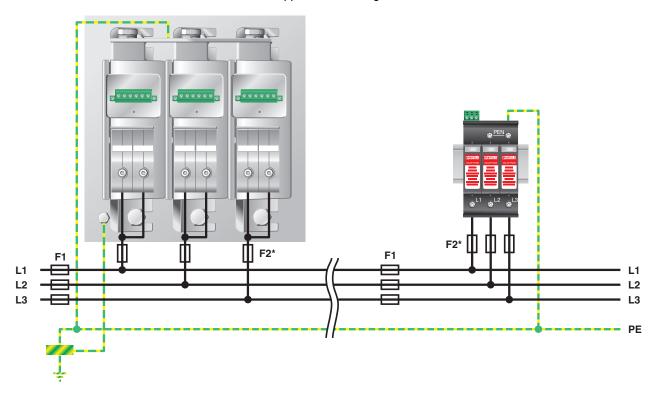


Circuit diagram





Application drawing



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