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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



Type 2 surge protection device - VAL-MS 750/30/3+0 - 2920269

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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

- ✓ Other solutions for power supplies UN = 400 V available on request
- ✓ For power supplies with higher supply voltages
- ✓ Use in powerful industrial networks and wind power plants



Key commercial data

Packing unit	1 pc
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	53.4 mm
Depth	58 mm

Ambient conditions

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

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Technical data

Ambient conditions

Vibration (operation)	5g
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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 (please see note below)
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	8 mm
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical

Additional descriptions

Note	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)
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Protective circuit

Nominal voltage U_N	554/960 V AC (TN-C)
	690 V AC (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-PE)	760 V AC
Maximum continuous operating voltage U_C (L-PEN)	760 V AC
Rated load current I_L	80 A

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Technical data

Protective circuit

Residual current I_{PE}	$\leq 1.5 \text{ mA}$
Standby power consumption P_C	$\leq 1200 \text{ mVA}$
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 (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_p (L-PE)	$\leq 2.9 \text{ kV}$
Voltage protection level U_p (L-PEN)	$\leq 2.9 \text{ kV}$
Residual voltage U_{res} (L-PE)	$\leq 2.9 \text{ kV}$ (at I_n)
	$\leq 2.7 \text{ kV}$ (at 10 kA)
	$\leq 2.5 \text{ kV}$ (at 5 kA)
	$\leq 2.3 \text{ kV}$ (at 3 kA)
Residual voltage U_{res} (L-PEN)	$\leq 2.9 \text{ kV}$ (at I_n)
	$\leq 2.7 \text{ kV}$ (at 10 kA)
	$\leq 2.5 \text{ kV}$ (at 5 kA)
	$\leq 2.3 \text{ kV}$ (at 3 kA)
TOV behavior at U_T (L-PEN)	1000 V AC (5 s / withstand mode)
Response time t_A (L-PE)	$\leq 25 \text{ ns}$
Response time t_A (L-PEN)	$\leq 25 \text{ ns}$
Max. backup fuse with branch wiring	100 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm ²
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
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Technical data

UL specifications

Maximum continuous operating voltage MCOV (L-G)	750 V AC
Nom. voltage	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)	2.5 kV
Nominal discharge current I_n (L-L)	10 kA
Nominal discharge current I_n (L-G)	10 kA

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

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Approvals

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UL Recognized / KEMA-KEUR / ÖVE / cUL Recognized / GOST / GL / CCA / IECCEB Scheme / KEMA-KEUR / ÖVE / cULus Recognized

Ex Approvals

Approvals submitted


Approval details

UL Recognized 

KEMA-KEUR 

ÖVE 

cUL Recognized 

GOST 

GL

CCA

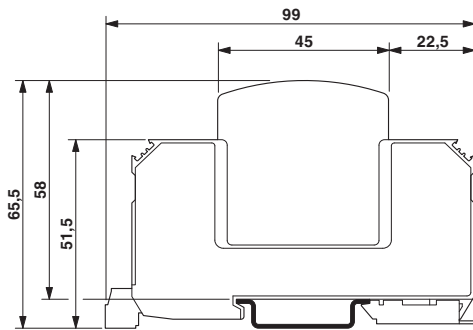
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Approvals

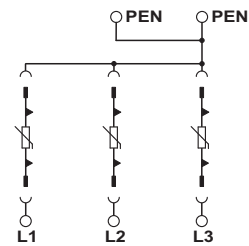


Drawings

Dimensioned drawing



Circuit diagram



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