

Type 1 surge protection plug - VAL-MS-T1/T2 48/12.5 ST - 2801242

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L-N replacement plug for VAL-MS-T1/T2 48/12.5 plug-in lightning arrester.



Key commercial data

Packing unit	10 pc
GTIN	 4 046356 750196
Weight per Piece (excluding packing)	52.4 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Height	47 mm
Width	17.5 mm
Depth	67.3 mm
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	≤ 2000 m (NN)

General

Housing material	PBT / PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	DIN EN 60664-1
	EN 61643-11
Mounting type	On base element
Type	Male
Number of positions	1

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Technical data

General

Surge protection fault message	Optical
Direction of action	L-N / L-PEN

Protective circuit

IEC test classification	I / II
	T1 / T2
EN type	T1 / T2
Nominal voltage U_N	60 V AC
	60 V DC
	- 48 V DC (RRH)
Maximum continuous operating voltage U_C	75 V AC
	100 V DC
U_T (TOV-proof)	100 V AC (5 s)
	130 V DC (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.6 mA
Standby power consumption P_C	≤ 90 mVA
Max. discharge current I_{max} (8/20) μ s	30 kA
Nominal discharge current I_n (8/20) μ s	12.5 kA
Impulse discharge current (10/350) μ s, charge	6.25 As
Impulse discharge current (10/350) μ s, specific energy	39.00 kJ/ Ω
Impulse discharge current (10/350) μ s, peak value I_{imp}	12.5 kA
Voltage protection level U_p	≤ 0.4 kV
Voltage protection level U_p (L+) - (L-)	≤ 0.4 kV
Voltage protection level U_p (L+/L-) - PE	≤ 0.4 kV
Residual voltage	≤ 0.4 kV
	≤ 0.35 kV (at 10 kA)
	≤ 0.3 kV (at 5 kA)
	≤ 0.25 kV (at 3 kA)
Residual voltage (L+) - (L-)	≤ 0.4 kV
Residual voltage (L+/L-) - PE	≤ 0.4 kV
Response time	≤ 25 ns
Max. required backup fuse with branch wiring	160 A (gL/gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA

Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012
	UL 1449 ed. 3

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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	27130802
eCl@ss 7.0	27130802
eCl@ss 8.0	27130802

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000381
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 / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

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cUL Recognized 

cULus Recognized 

Accessories

Accessories

Device marking

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

Marker pen

Marker pen - B-STIFT - 1051993



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