

## Type 1/2 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 lighting/surge arrester.

### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	62.0 GRM
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

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## Technical data

### General

Number of positions	1
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 $I_{PE}$	$\leq 0.6$ mA
Standby power consumption $P_c$	$\leq 90$ mVA
Max. discharge current $I_{max}$ (8/20) $\mu$ s	30 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s	12.5 kA
Impulse discharge current (10/350) $\mu$ s charge	6.25 As
Impulse discharge current (10/350) $\mu$ s, specific energy	39 kJ/ $\Omega$
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	12.5 kA
Voltage protection level $U_p$	$\leq 0.4$ kV
Voltage protection level $U_p$ (L+) - (L-)	$\leq 0.4$ kV
Voltage protection level $U_p$ (L+/L-) - PE	$\leq 0.4$ kV
Residual voltage	$\leq 0.4$ kV
	$\leq 0.35$ kV (at 10 kA)
	$\leq 0.3$ kV (at 5 kA)
	$\leq 0.25$ kV (at 3 kA)
Residual voltage (L+) - (L-)	$\leq 0.4$ kV
Residual voltage (L+/L-) - PE	$\leq 0.4$ kV
Response time	$\leq 25$ ns
Max. 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
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### Standards and Regulations

	EN 61643-11 2012
	UL 1449 ed. 3

## 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

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#### Approvals

UL Recognized / cUL Recognized / KEMA-KEUR / KEMA-KEUR / VDE Zeichengenehmigung / CCA / CCA / IECCEB Scheme / IECCEB Scheme / cULus Recognized

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#### Ex Approvals

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## Approvals


Approvals submitted


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### Approval details

UL Recognized 

cUL Recognized 


KEMA-KEUR 


KEMA-KEUR 

VDE Zeichengenehmigung 

CCA

CCA

IECEE CB Scheme 

IECEE CB Scheme 

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