

VAL-SPP-T1-1500DC-PV-P - Type 1 surge protection plug



1784483

<https://www.phoenixcontact.com/gb/products/1784483>

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Replacement plug for PV special combined lightning current and surge arrester from the VAL-SPP-T1-1500DC-PV-2+V-UT... product family. The plug is only suitable for use in the L+ or L- branch of a Y configuration.

Your advantages

- Easy and safe installation with forward-thinking handling and safety features
- Reliable system protection with maximum performance and endurance
- Can be used in a wide range of applications due to the optimized design and broad portfolio
- Simple planning due to comprehensive digital data and selectors

Commercial data

Item number	1784483
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL11EZ
Product key	CL11EZ
GTIN	4067923401945
Weight per piece (including packing)	142.8 g
Weight per piece (excluding packing)	117.61 g
Customs tariff number	85354000
Country of origin	DE

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Technical data

Notes

General

Note	All electrical data and U_{\max} is valid for 2 plugs in series.
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Product properties

Product type	Replacement plug
IEC test classification	PV I / II
EN type	PV T1 / T2
IEC power supply system	DC
Type	Male
Environment	Indoor
Installation location of the disconnect device	Internal
Accessibility	Accessible
End-of-life mode	OCFM (Open-Circuit Failure Mode)
Surge protection fault message	optical
Number of ports	One

Insulation characteristics

Overvoltage category	III
Pollution degree (Main circuit)	2

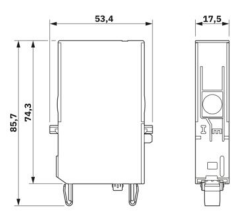
Electrical properties

Maximum power dissipation for nominal condition	≤ 150 mVA
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Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	
Width	17.5 mm
Height	53.4 mm
Depth	85.7 mm
Horizontal pitch	1 Div.

Material specifications

Color	light gray (RAL 7035)
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Material Housing	PA 6.6-FR 20 % GF
Flammability rating according to UL 94	V-0
Insulating material	PA 6.6-FR 20 % GF

Protective circuit

Mode of protection	(DC+) - (DC-)
	(DC+) - PE
	(DC-) - PE
Max. continuous voltage U_{CPV}	1500 V DC (2 plugs in series)
Open-circuit voltage U_{OCSTC}	1250 V DC (2 plugs in series)
Continuous current I_{CPV}	$\leq 100 \mu\text{A DC}$
Maximum power dissipation for nominal condition	$\leq 150 \text{ mVA}$
Nominal discharge current I_n (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μs	40 kA
Impulse discharge current	6.25 kA (3.1 As / 9.8 kJ/ Ω)
Short-circuit current rating I_{SCPV}	15000 A
Voltage protection level U_p	$\leq 4.5 \text{ kV}$ (2 plugs in series)
Residual voltage U_{res}	$\leq 4.5 \text{ kV}$ (at I_n , 2 plugs in series)
	$\leq 4.5 \text{ kV}$ (at I_n , 2 plugs in series)
	$\leq 4.5 \text{ kV}$ (at I_n , 2 plugs in series)
	$\leq 4.5 \text{ kV}$ (at I_n , 2 plugs in series)
Response time t_A	$\leq 25 \text{ ns}$

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20C (installed)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-5 °C ... 50 °C
Altitude	$\leq 4000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
Vibration (operation)	5g (5-500 Hz/2.5 h/XYZ)

Standards and regulations

Standards/specifications	IEC 61643-31
Note	2018
Standards/specifications	EN 61643-31
Note	2019 + AC: 2022

Mounting

Mounting type	on base element
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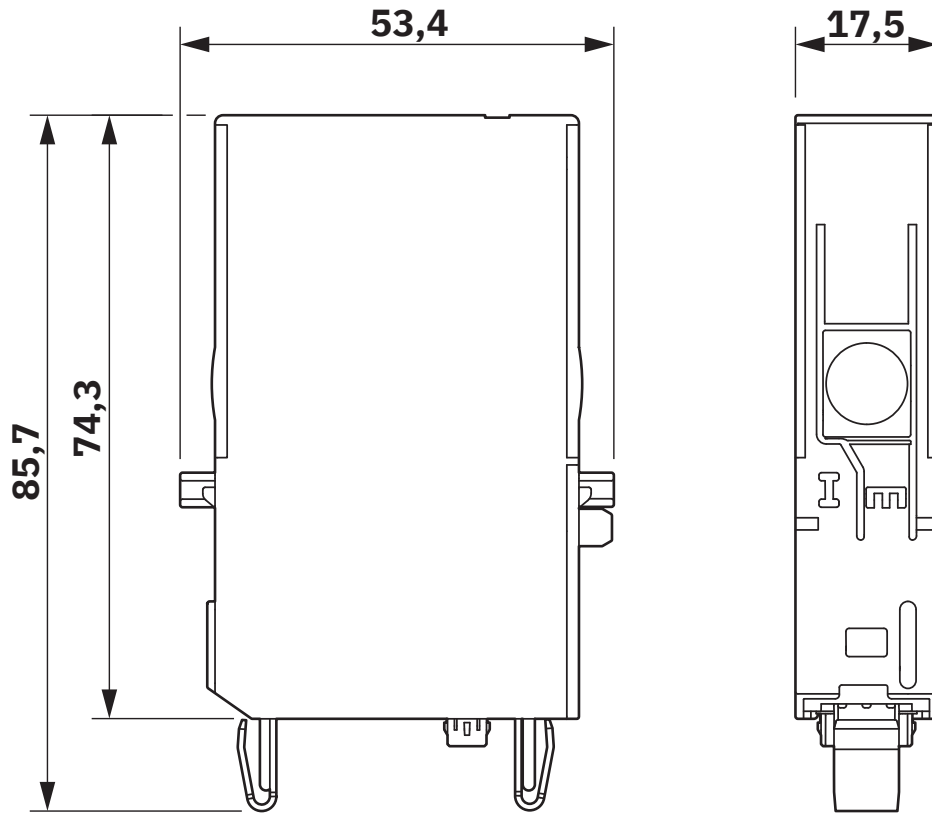


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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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DEKRA

Approval ID: 31-172928

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Classifications

ECLASS

ECLASS-13.0	27171492
ECLASS-15.0	27171492

ETIM

ETIM 10.0	EC002496
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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