

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Replacement plug for PV special combined lightning current and surge arrester from the VAL-SPP-T2-1000DC-PV-2+V-UT... product family.

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	1466779
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL138Z
GTIN	4063151862251
Weight per piece (including packing)	63.6 g
Weight per piece (excluding packing)	61.2 g
Country of origin	DE

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

Technical data

Product properties

Product type	Replacement plug
Product family	VAL-SPP
IEC test classification	PV II
	PV T2
EN type	T2
IEC power supply system	DC
Type	Male
Number of positions	1
Installation location	Indoor
Installation location of the disconnect device	Internal
Accessibility	Accessible
Connection configuration	Y configuration
SPD failure behavior	OCFM (Open-Circuit Failure Mode)
Surge protection fault message	optical

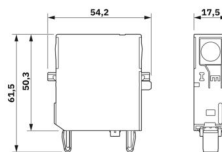
Insulation characteristics

Overvoltage category	III
Pollution degree	2

Connection data

Connection method	pluggable
-------------------	-----------

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	54.2 mm
Depth	61.5 mm
Horizontal pitch	1 Div.

Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20 % GF
Material group	I
Housing material	PA 6.6-FR 20 % GF

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

Protective circuit

Residual current I_{PE}	$\leq 350 \mu A$ AC
	$\leq 100 \mu A$ DC
Standby power consumption P_C	≤ 60 mVA
Nominal discharge current I_n (8/20) μs	20 kA
Maximum discharge current I_{max} (8/20) μs	40 kA
Total discharge current I_{total} (8/20) μs	40 kA
Voltage protection level U_p	≤ 4.2 kV (2 plugs in series)
Residual voltage U_{res}	≤ 4.2 kV (at I_n , 2 plugs in series)
	≤ 3.6 kV (at 10 kA, 2 plugs in series)
	≤ 3.2 kV (at 5 kA, 2 plugs in series)
	≤ 3 kV (at 3 kA, 2 plugs in series)
Response time t_A	≤ 25 ns

PV protective circuit

Connection configuration	Y configuration
SPD failure behavior	OCFM (Open-Circuit Failure Mode)

Protective circuit DC voltage side (DC)

Open circuit voltage U_{OCSTC}	1000 V DC (2 plugs in series)
Maximum discharge current I_{max} (8/20) μs	40 kA
Response time t_A	≤ 25 ns
Total discharge current I_{total} (8/20) μs	40 kA
Insulation resistance R_{iso}	> 5 M Ω (at 500 V DC)
Nominal discharge current I_n (8/20) μs	20 kA
Continuous operating current I_{CPV}	$\leq 100 \mu A$ DC
Maximum continuous operating voltage U_{CPV}	1200 V DC (2 plugs in series)
Short-circuit current rating I_{SCPV}	15000 A
Residual voltage U_{res}	≤ 4.2 kV (at I_n , 2 plugs in series)
	≤ 3.6 kV (at 10 kA, 2 plugs in series)
	≤ 3.2 kV (at 5 kA, 2 plugs in series)
	≤ 3 kV (at 3 kA, 2 plugs in series)
Residual current I_{PE}	$\leq 350 \mu A$ AC
	$\leq 100 \mu A$ DC
Voltage protection level U_p	≤ 4.2 kV (2 plugs in series)
Standby power consumption P_C	≤ 60 mVA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20C
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (assembly)	-5 °C ... 50 °C
Altitude	≤ 5000 m (amsl)

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

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	EN 61643-31
Note	2019
Standards/specifications	IEC 61643-31
Note	2018

Mounting

Mounting type	on base element
---------------	-----------------

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug

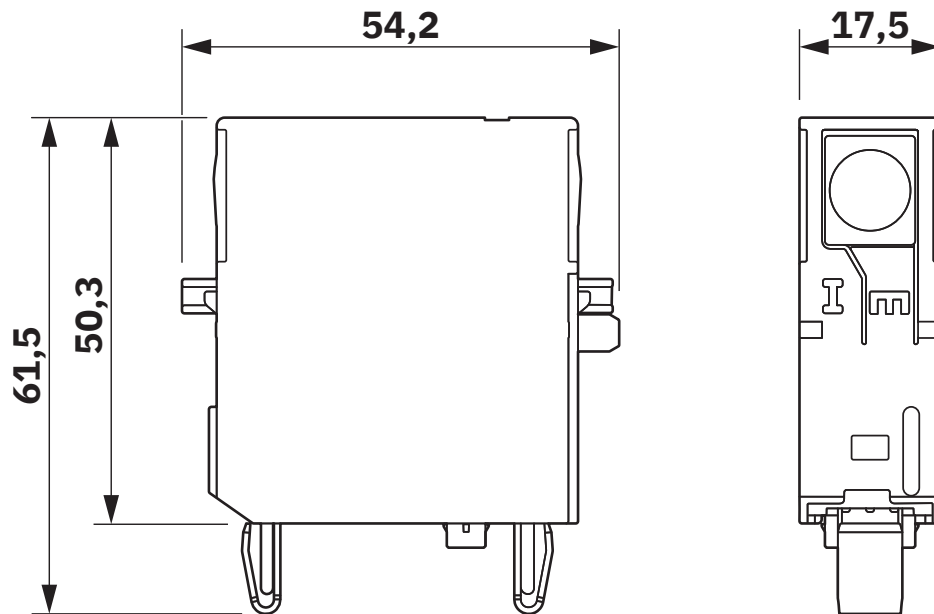


1466779

<https://www.phoenixcontact.com/in/products/1466779>

Drawings

Dimensional drawing



Circuit diagram



VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1466779>



IECEE CB Scheme

Approval ID: NL-109183

CCA

Approval ID: NTR NL-8030



KEMA-KEUR

Approval ID: 71-133324

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779

<https://www.phoenixcontact.com/in/products/1466779>

Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171492

ETIM

ETIM 9.0	EC002496
----------	----------

VAL-SPP-T2-1000DC-PV-P - Type 2 surge protection plug



1466779
<https://www.phoenixcontact.com/in/products/1466779>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420
info@phoenixcontact.co.in