

1466781

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Replacement plug for PV special combined lightning current and surge arrester from the VAL-SPP-T1-1000DC-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	1466781
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL11EZ
GTIN	4063151862534
Weight per piece (including packing)	80.7 g
Weight per piece (excluding packing)	77.6 g
Country of origin	DE



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### Technical data

#### Product properties

Product type	Replacement plug	
IEC test classification	PV I / II	
	PV T1 / T2	
EN type	T1 / T2	
IEC power supply system	DC	
Туре	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

#### **Dimensions**

Dimensional drawing	54.2 17.5 18.00 19.0
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



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#### Protective circuit

Residual current I <sub>PE</sub>	≤ 350 µA AC
	≤ 100 µA DC
Standby power consumption P <sub>C</sub>	≤ 60 mVA
Nominal discharge current I <sub>n</sub> (8/20) µs	20 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Impulse discharge current (10/350) μs, charge	2.5 As
Impulse discharge current (10/350) µs, specific energy	6.25 kJ/Ω
Impulse discharge current (10/350) $\mu$ s, peak value $I_{imp}$	5 kA
Total discharge current I <sub>total</sub> (8/20) μs	40 kA
Total discharge current I <sub>total</sub> (10/350) µs	5 kA
Voltage protection level U <sub>p</sub>	≤ 4.2 kV (2 plugs in series)
Residual voltage U <sub>res</sub>	≤ 4.2 kV (at In, 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 <sub>A</sub>	≤ 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 <sub>OCSTC</sub>	1000 V DC (2 plugs in series)
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Response time t <sub>A</sub>	≤ 25 ns
Impulse discharge current (10/350) μs, charge	2.5 As
Impulse discharge current (10/350) µs, specific energy	6.25 kJ/Ω
Impulse discharge current (10/350) μs, peak value l <sub>imp</sub>	5 kA
Total discharge current I <sub>total</sub> (8/20) µs	40 kA
Total discharge current I <sub>total</sub> (10/350) µs	5 kA
Insulation resistance R <sub>iso</sub>	> 5 MΩ (at 500 V DC)
Nominal discharge current I <sub>n</sub> (8/20) µs	20 kA
Continuous operating current I <sub>CPV</sub>	≤ 100 µA DC
Maximum continuous operating voltage U <sub>CPV</sub>	1200 V DC (2 plugs in series)
Short-circuit current rating I <sub>SCPV</sub>	15000 A
Residual voltage U <sub>res</sub>	≤ 4.2 kV (at In, 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 <sub>PE</sub>	≤ 350 µA AC
	≤ 100 μA DC
Voltage protection level U <sub>p</sub>	≤ 4.2 kV (2 plugs in series)
Standby power consumption P <sub>C</sub>	≤ 60 mVA
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#### 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)
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±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
Modified type	on base cicinent

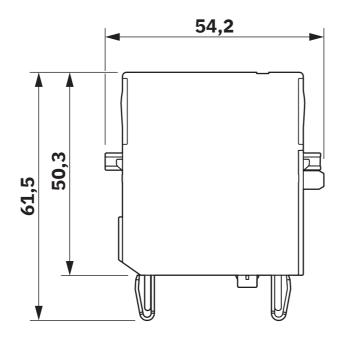


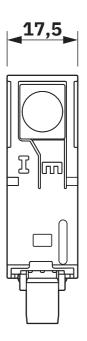
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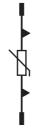
### Drawings

#### Dimensional drawing





Circuit diagram





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### **Approvals**

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**IECEE CB Scheme** 

Approval ID: NL-109183

CCA

Approval ID: NTR NL-8030



KEMA-KEUR

Approval ID: 71-133324



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### Classifications

ETIM 9.0

#### **ECLASS**

	ECLASS-11.0	27130890
	ECLASS-13.0	27171492
ET	TIM	

EC002496



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### 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%

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