

VAL-SPP-T2-NPE/40-P - Type 2 surge protection plug



1466688

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Type 2 surge protection plug, with N-PE total current spark gap for VAL-SPP base element, thermal monitoring, optical red/green status indicator.

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	1466688
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL138Z
GTIN	4063151861773
Weight per piece (including packing)	47.2 g
Weight per piece (excluding packing)	42 g
Country of origin	DE

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Technical data

Product properties

Product type	Replacement plug
Product family	VAL-SPP
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	TT
Type	Male
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	3

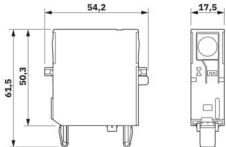
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
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Connection data

Connection method	pluggable
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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

Protective circuit

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Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U_N	240 V AC $\pm 10\%$ (TN - only N-PE) 240 V AC $\pm 10\%$ (TT - only N-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Residual current I_{PE}	$\leq 5\ \mu\text{A}$
Standby power consumption P_C	$\leq 1.5\ \text{mVA}$
Nominal discharge current I_n (8/20) μs	40 kA
Maximum discharge current I_{max} (8/20) μs	80 kA
Follow current interrupt rating I_{fi}	100 A
Voltage protection level U_p	$\leq 1.5\ \text{kV}$
Residual voltage U_{res}	$\leq 0.7\ \text{kV}$ (at I_n) $\leq 0.5\ \text{kV}$ (at 10 kA) $\leq 0.4\ \text{kV}$ (at 5 kA) $\leq 0.3\ \text{kV}$ (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) μs	$\leq 1.5\ \text{kV}$
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	$\leq 100\ \text{ns}$

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	$\leq 5000\ \text{m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012 + A11:2018

Mounting

Mounting type	on base element
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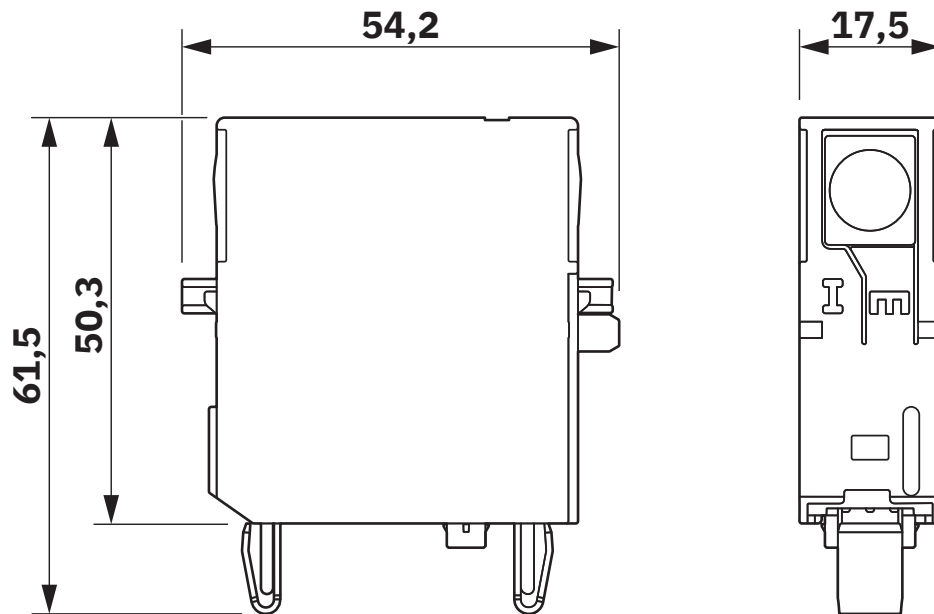


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Drawings

Dimensional drawing



Circuit diagram



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1466688>



IECEE CB Scheme

Approval ID: NL-109184

CCA

Approval ID: NTR NL-8052



KEMA-KEUR

Approval ID: 71-138153 REV.2

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Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

ETIM

ETIM 9.0	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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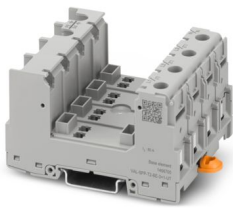
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Accessories

VAL-SPP-T2-BE-3+1-UT - Type 2 surge protection base element

1466705

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Base element for type 2/Class II arresters from the VALVETRAB SPP product family. Version for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE).

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