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

1466689

https://www.phoenixcontact.com/in/products/1466689

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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	1466689
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL138Z
GTIN	4063151860172
Weight per piece (including packing)	39.2 g
Weight per piece (excluding packing)	36 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

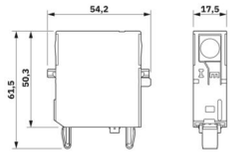
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

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

Protective circuit

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Mode of protection	N-PE
Direction of action	N-PE
Nominal voltage U_N	240 V AC ±10 % (TN - only N-PE)
	240 V AC ±10 % (TT - only N-PE)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	305 V AC
Residual current I_{PE}	≤ 5 µA
Standby power consumption P_C	≤ 1.5 mVA
Nominal discharge current I_n (8/20) µs	20 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Follow current interrupt rating I_{fi}	100 A
Voltage protection level U_p	≤ 1.5 kV
Residual voltage U_{res}	≤ 0.5 kV (at I_n)
	≤ 0.4 kV (at 10 kA)
	≤ 0.3 kV (at 5 kA)
	≤ 0.1 kV (at 3 kA)
Front of wave sparkover voltage at 6 kV (1.2/50) µs	≤ 1.5 kV
TOV behavior at U_T	1200 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 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	≤ 5000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV (N-G)	305 V AC
Nominal discharge current I_n (N-G)	20 kA
Mode of protection	N-G
Nominal voltage	277 V AC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (N-G)	1140 V
SPD Type	4CA

Standards and regulations

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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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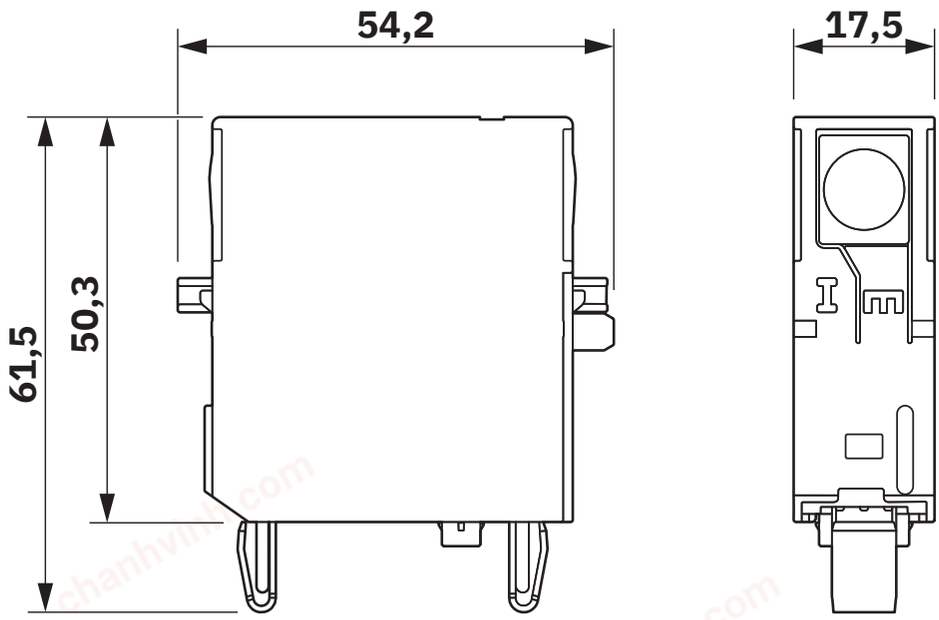
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1466689

IECEE CB Scheme
Approval ID: NL-109184

CCA
Approval ID: NTR NL-8052

KEMA-KEUR
Approval ID: 71-138153 REV.2

cULus Recognized
Approval ID: E330181

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Classifications

ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

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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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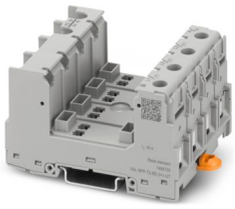
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Accessories

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

1466705

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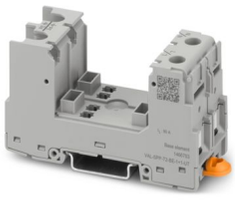


Base element for type 2/Class II arresters from the VALVETRAB SPP product family. Version for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE).

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

1466703

https://www.phoenixcontact.com/in/products/1466703



Base element for type 2 arresters from the VAL-SPP product family. Version for 1-phase power supplies with separate cable routing of N and PE.

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