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VAL-SPP-T2-750-P - Type 2 surge protection plug

1466690

https://www.phoenixcontact.com/in/products/1466690

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Type 2 surge protection plug for VAL-SPP base element, thermally monitored, 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	1466690
Packing unit	10 pc
Minimum order quantity	1 pc
Product key	CL138Z
GTIN	4063151861254
Weight per piece (including packing)	73.6 g
Weight per piece (excluding packing)	70.4 g
Country of origin	DE

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Technical data

Notes

General

Note	For use in all low-voltage systems between L-PEN. Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the transformer station (common grounding of the HV transformer station and the exposed conductive part of the LV load system). RE = RA according to VDE 0100-442:2013, Figure 44.A1 and Table 44.A1

Product properties

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

Insulation characteristics

Overvoltage category	III
Pollution degree	2

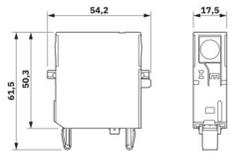
Electrical properties

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.

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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
Material group	I
Housing material	PA 6.6

Protective circuit

Mode of protection	L-PE
	L-PEN
Direction of action	1L-N/PE
Nominal voltage U_N	554 V AC ±10 % (TN-C)
	690 V AC ±10 % (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	760 V AC
Residual current I_{PE}	≤ 0.5 mA
Standby power consumption P_C	≤ 400 mVA
Nominal discharge current I_n (8/20) µs	20 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Short-circuit current rating I_{SCCR}	25 kA
Voltage protection level U_p	≤ 3 kV
Residual voltage U_{res}	≤ 3 kV (at I_n)
	≤ 2.7 kV (at 10 kA)
	≤ 2.5 kV (at 5 kA)
	≤ 2.3 kV (at 3 kA)
TOV behavior at U_T	1005 V AC (5 s / withstand mode)
	1316 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	250 A (gG)

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)

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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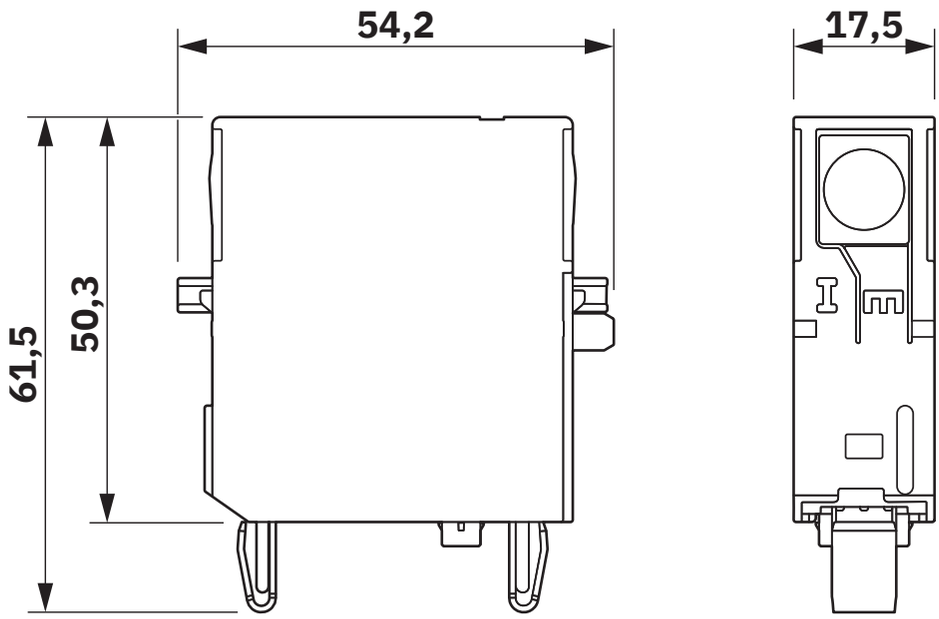
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1466690

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

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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Accessories

VAL-SPP-T2-BE-3+0-UT - Type 2 surge protection base element

1466704

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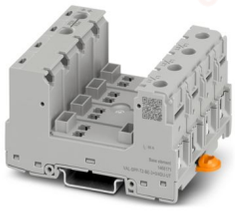


Base element for type 2 arresters from the VAL-SPP product family. Version for 3-phase power supplies with combined routing of PE and N in one conductor.

VAL-SPP-T2-BE-3+0/4DU-UT - Type 2 surge protection base element

1468171

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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 combined routing of PE and N in one conductor (4-conductor system: L1, L2, L3, PEN).

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