VAL-SPP-T2-275-P - Type 2 surge protection plug

1466685

https://www.phoenixcontact.com/us/products/1466685

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.



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	1466685
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL18
Product key	CL138Z
GTIN	4063151860165
Weight per piece (including packing)	52.8 g
Weight per piece (excluding packing)	49 g
Customs tariff number	85363030
Country of origin	DE

Technical data

Notes

General

Note	Only for use in IT systems between L-PE if the common earthing of the HV transformer station and conductive parts of the LV consumer system are interconnected ($R_E = R_A$ & $R_E = Z$ according to IEC 60364-4-44:2024, Figure 1 and Table 1).

Product properties

Product type	Replacement plug
IEC test classification	II
EN type	T2
IEC power supply system	TN
	TT
Type	Male
Environment	Indoor
Accessibility	Accessible
End-of-life mode	OCM
Surge protection fault message	optical
Number of ports	One

Insulation characteristics

Overvoltage category	III
Pollution degree (Main circuit)	3

Electrical properties

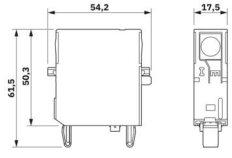
Maximum power dissipation for nominal condition	≤ 110 mVA

Connection data

protection circuit (L, N / PEN)

Connection method	pluggable

Dimensions

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

Material specifications

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

Protective circuit

Mode of protection	L-N
	L-PEN
	L-PE
Nominal voltage U_N	240 V AC ±10 % (TN)
	240 V AC ±10 % (TT)
	230 V AC ±10 % (IT)
Nominal frequency	50/60 Hz
Maximum continuous operating voltage U_C	275 V AC
Continuous current I_C	≤ 0.4 mA
Maximum power dissipation for nominal condition	≤ 110 mVA
Nominal discharge current I_n (8/20) µs	20 kA
Max. discharge current I_{max} (8/20)µs	40 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	≤ 1.35 kV
Residual voltage U_{res}	≤ 1.35 kV (at I_n)
	≤ 1.1 kV (at 10 kA)
	≤ 1 kV (at 5 kA)
	≤ 0.9 kV (at 3 kA)
TOV behavior at U_T	350 V AC (5 s / withstand mode)
	460 V AC (120 min / safe failure mode)
Response time t_A	≤ 25 ns
Max. backup fuse with branch wiring	315 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 ... 150 Hz / 2.5 h / X, Y, Z)
	0,7g (5 ... 100 Hz / X, Y, Z - according to GL)

Standards and regulations

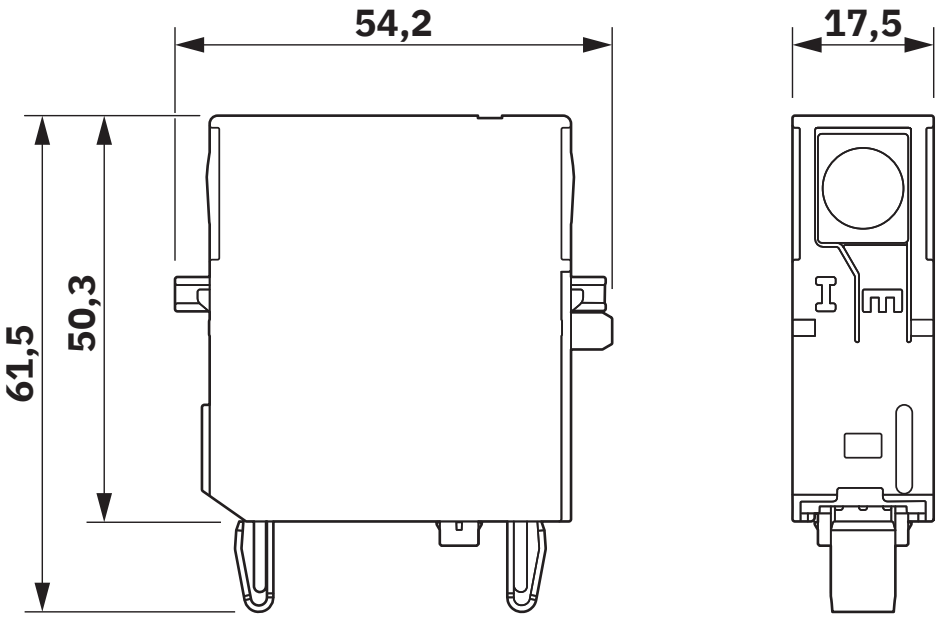
Standards/specifications	IEC 61643-11
Note	2025
Standards/specifications	EN IEC 61643-11
Note	2025 + A11:2025
Standards/specifications	EN 61643-11
Note	2012 + A11:2018

Mounting

Mounting type	on base element
Mounting method	fixed

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1466685

IECEE CB Scheme
Approval ID: NL-127624

CCA
Approval ID: NTR NL-8099

DNV
Approval ID: TAE0000501

cULus Recognized
Approval ID: E330181-20240716

DEKRA
Approval ID: 71-178747

Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 9.0	EC002496

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 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com