VAL-US-SPP-120/65-P - Type 2 surge protection plug

1790751

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Surge protection plug for use with VAL-SPP or VAL-US-SPP base elements, UL Recognized type 1 component and IEC type 2, with varistor and thermal disconnect device, plug-in, with local status indicator (green/red).

Your advantages

- Universal surge protection plug with UL Recognized type 1 and IEC type 2
- Clear status indication with local optical green/red display
- Safe installation with mechanical coding

Commercial data

Item number	1790751
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL17
Product key	CL138Z
GTIN	4067923410916
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

Product properties

Product type	Replacement plug
Product family	VAL-SPP
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
	TN-S
	TT
Type	Male
Number of positions	1
End-of-life mode	OCM
Surge protection fault message	optical
Number of ports	One

Insulation characteristics

Overvoltage category	III
Pollution degree	3

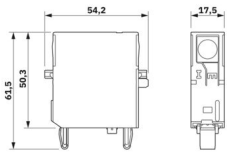
Electrical properties

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 HP

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

Mode of protection	L-N
	L-PEN
Nominal voltage U_N	120 V AC ±10 % (TN-C, TN-S)
	120 V AC ±10 % (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	175 V AC
Protective conductor current I_{PE}	≤ 0.4 mA
Standby power consumption P_C	≤ 70 mVA
Operating effective current I_C at U_N	≤ 0.4 mA
Nominal discharge current I_n (8/20) µs	20 kA
Short-circuit current rating I_{SCCR}	50 kA
Voltage protection level U_p	≤ 1 kV
Residual voltage U_{res}	≤ 1 kV (at I_n)
TOV behavior at U_T	175 V AC (5 s / withstand mode)
	230 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	≤ 2000 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	175 V AC
Short-circuit current rating (SCCR)	200 kA
Voltage protection rating VPR	700 V
Nominal discharge current I_n	20 kA
Maximum Surge Current per Phase	1x 65 kA (IEEE C62.73)
Mode of protection	Ld-Ld
Nominal voltage	120 V AC
Nominal frequency	50/60 Hz

SPD Type	1CA

Standards and regulations

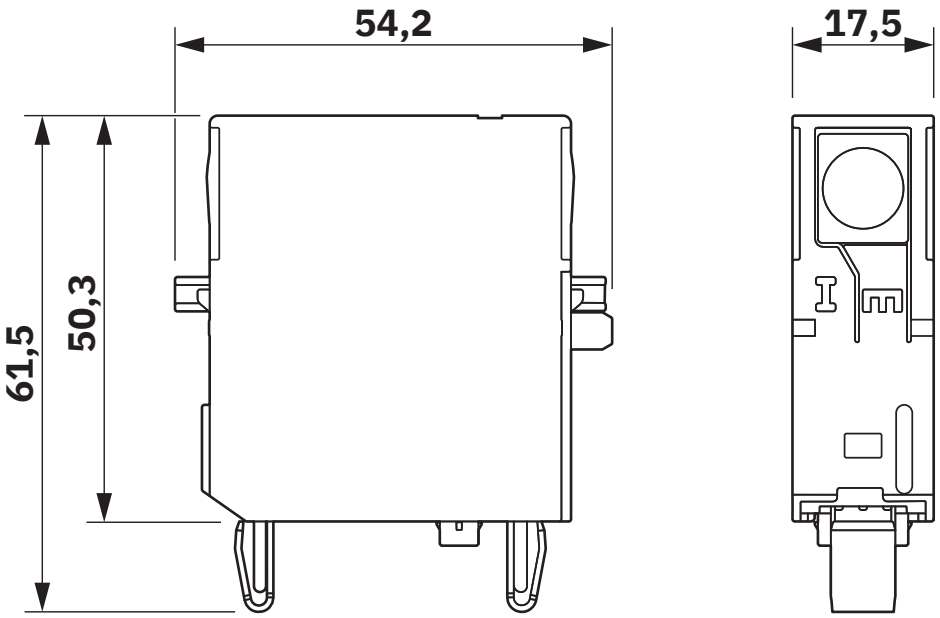
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012 + A11:2018

Mounting

Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1790751

cULus Recognized
Approval ID: E330181-20240716

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Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	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.)	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride(CAS: 552-30-7)

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