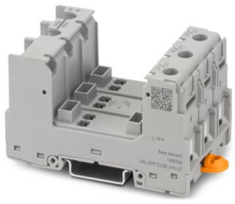
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VAL-SPP-T2-BE-3+0-UT - Type 2 surge protection base element

1466704

https://www.phoenixcontact.com/gb/products/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.

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	1466704
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL138Z
Product key	CL138Z
GTIN	4063151862008
Weight per piece (including packing)	219.1 g
Weight per piece (excluding packing)	192.3 g
Customs tariff number	85363030
Country of origin	DE

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Technical data

Notes

General

Note	Depending on the voltage Uc, the installation height, and the pollution degree, additional minimum lateral distances to grounded, conductive surfaces may need to be observed. Pollution degree 2: Uc ≤440: No lateral distances required. Uc >440 V ... 880 V: A minimum distance of 6 mm must be observed up to an installation height of 3000 m. Pollution degree 3: Uc ≤385 V: For wiring using a fork-type cable lug, an additional minimum distance of 1 mm must be observed for cross-sections ≥16 mm². Uc >385 V ... 440 V: See the table in the download area under the item Packing slip in the installation notes.

Product properties

Product type	Base element
Product family	VAL-SPP
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-S
	TT
	IT
Type	Base element, DIN rail mounting
Number of positions	3
Surge protection fault message	Remote signaling via optional module

Insulation characteristics

Overvoltage category	III
Pollution degree	3 at Uc ≤ 440 V AC
	2 at Uc > 440 V AC

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm ... 3.5 Nm

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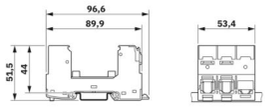
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Stripping length	18 mm
Conductor cross section flexible	1.5 mm² ... 35 mm² (without ferrule)
	2x 1.5 mm² ... 16 mm² (2 conductors with the same cross-section)
Conductor cross section rigid	1.5 mm² ... 50 mm²
	2x 1.5 mm² ... 16 mm² (2 conductors with the same cross-section)
Conductor cross section AWG	15 ... 2
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² ... 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² ... 35 mm²
	2x 1.5 mm² ... 10 mm² (2 conductors with the same cross-section)
Conductor cross section flexible, with ferrule without plastic sleeve	1.5 mm² ... 25 mm²
	2x 1.5 mm² ... 16 mm² (2 conductors with the same cross-section)
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² ... 25 mm²

Dimensions

Dimensional drawing	
Width	53.4 mm
Height	96.6 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	3 Div.

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT
Material group	I
Housing material	PBT

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Mode of protection	L-PEN

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Nominal voltage U_N	400/690 V AC ±10 % (TN-S)
	400/690 V AC ±10 % (TT)
	690 V AC ±10 % (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	760 V AC
Rated load current I_L	80 A (25 mm²)
Nominal discharge current I_n (8/20) µs	40 kA
Maximum discharge current I_{max} (8/20) µs	80 kA
Total discharge current I_{Total} (8/20) µs	120 kA
Short-circuit current rating I_{SCCR}	50 kA
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	315 A (gG)

Additional technical data

Short-circuit current rating I_{SCCR}	100 kA

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

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

Mounting

Mounting type	DIN rail: 35 mm

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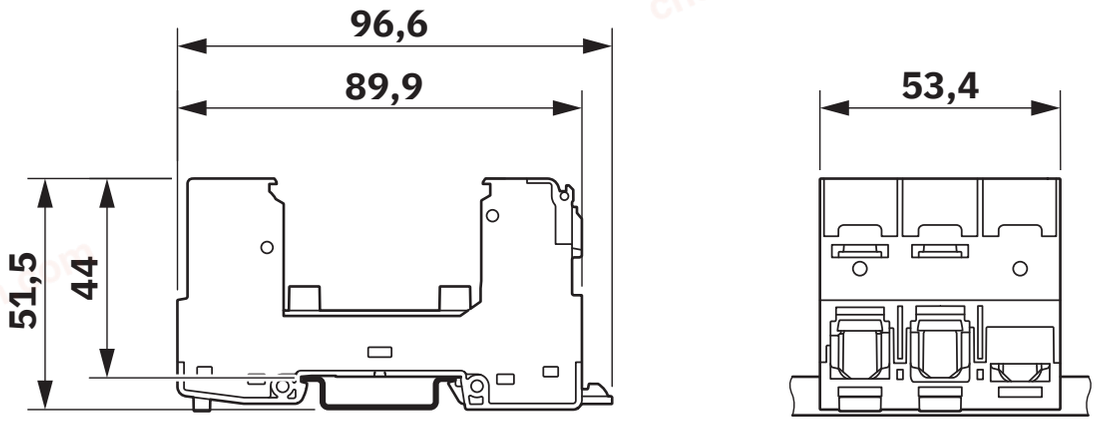
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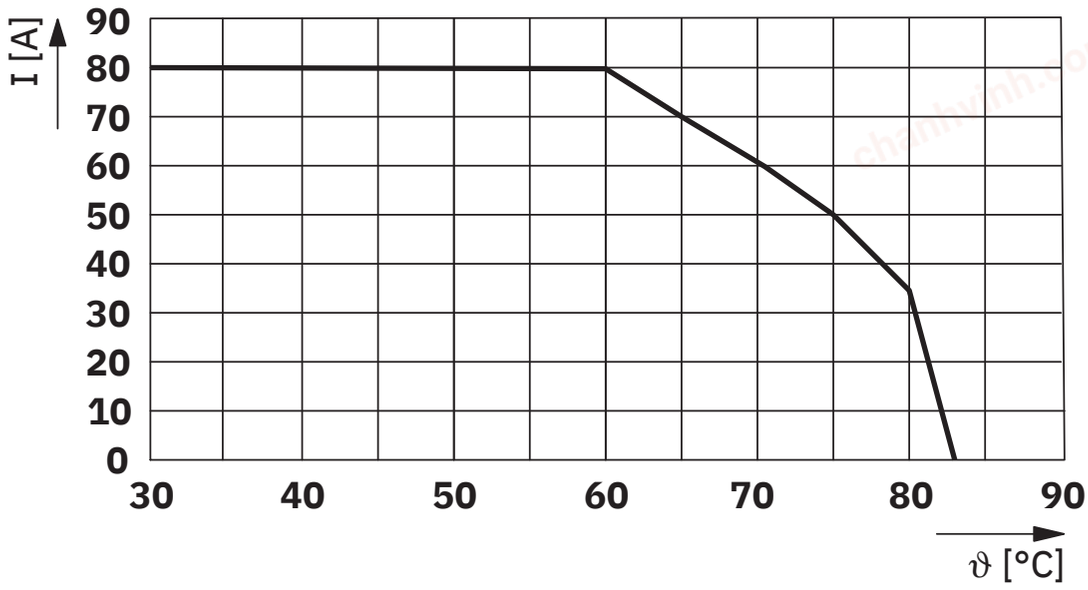
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Drawings

Dimensional drawing



Diagram



Max. permissible current in relation to the ambient temperature

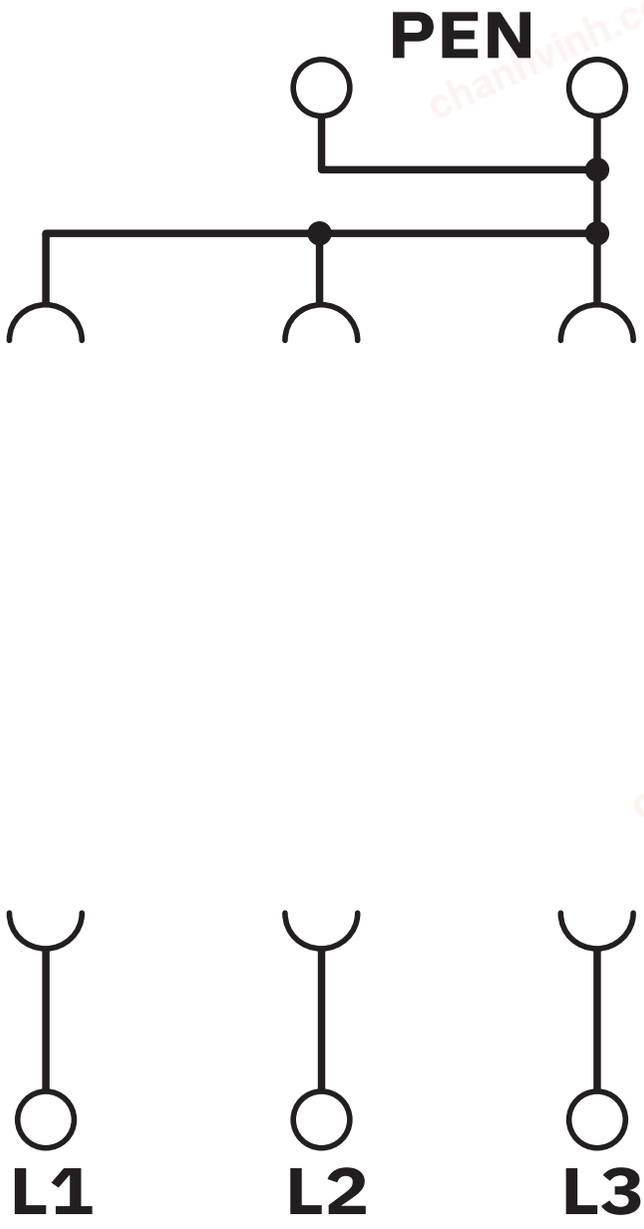
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Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1466704

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-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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