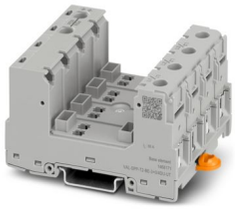
chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

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.



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).

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	1468171
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL138Z
Product key	CL138Z
GTIN	4063151864446
Weight per piece (including packing)	275.5 g
Weight per piece (excluding packing)	245.3 g
Customs tariff number	85363030
Country of origin	DE

chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

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	IT
Type	Base element, DIN rail mounting
Number of positions	4
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
Stripping length	18 mm
Conductor cross section flexible	1.5 mm² ... 35 mm² (without ferrule)

chanhvinh.com

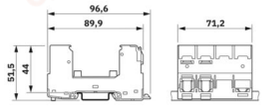
VAL-SPP-T2-BE-3+0/4DU-UT - Type 2 surge protection base element

1468171

https://www.phoenixcontact.com/gb/products/1468171

	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	71.2 mm
Height	96.6 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 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-PE
Nominal voltage U_N	800 V AC ±10 % (IT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	880 V AC

chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

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	80 kA
Short-circuit current rating I_{SCCR}	25 kA
Max. backup fuse with V-type through wiring	80 A (gG / B / C)
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

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

Mounting

Mounting type	DIN rail: 35 mm

chanhvinh.com

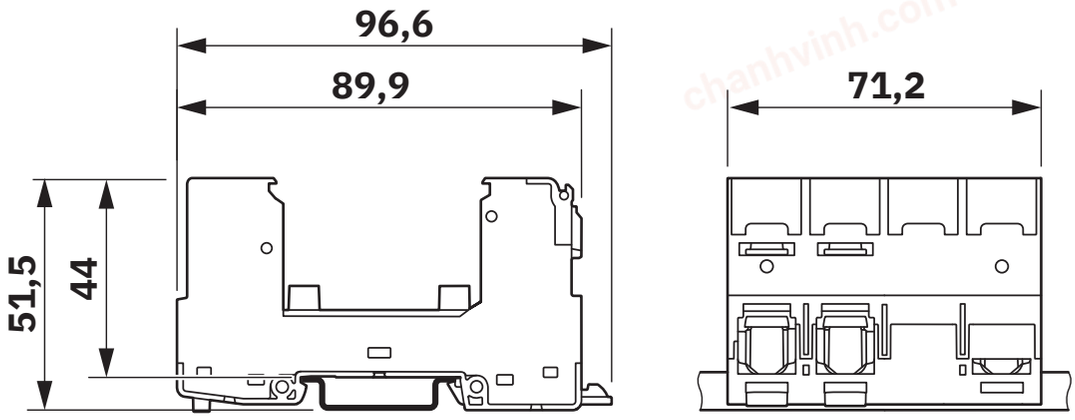
VAL-SPP-T2-BE-3+0/4DU-UT - Type 2 surge protection base element

1468171

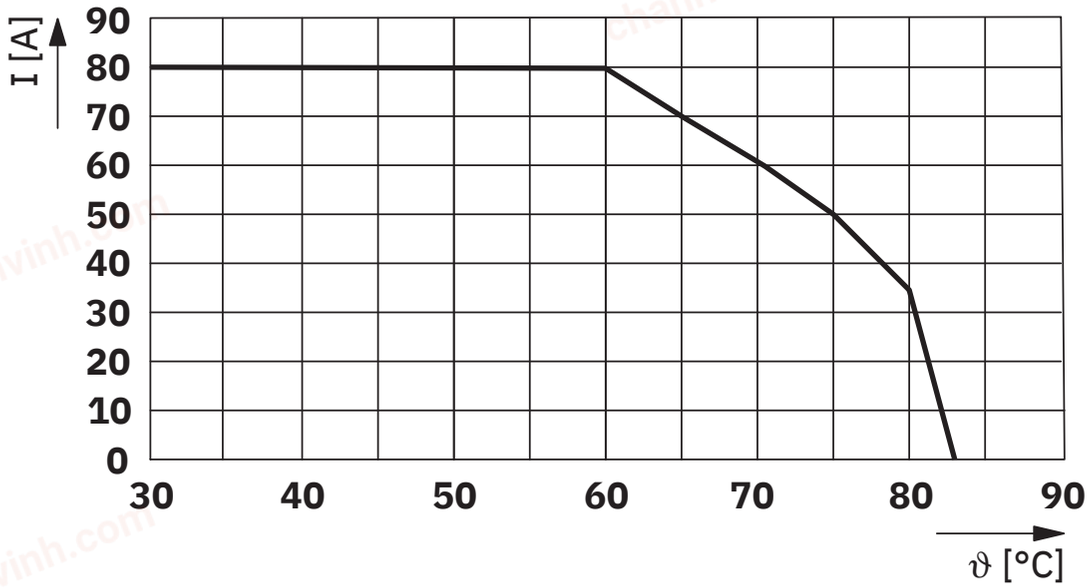
https://www.phoenixcontact.com/gb/products/1468171

Drawings

Dimensional drawing



Diagram



Max. permissible current in relation to the ambient temperature

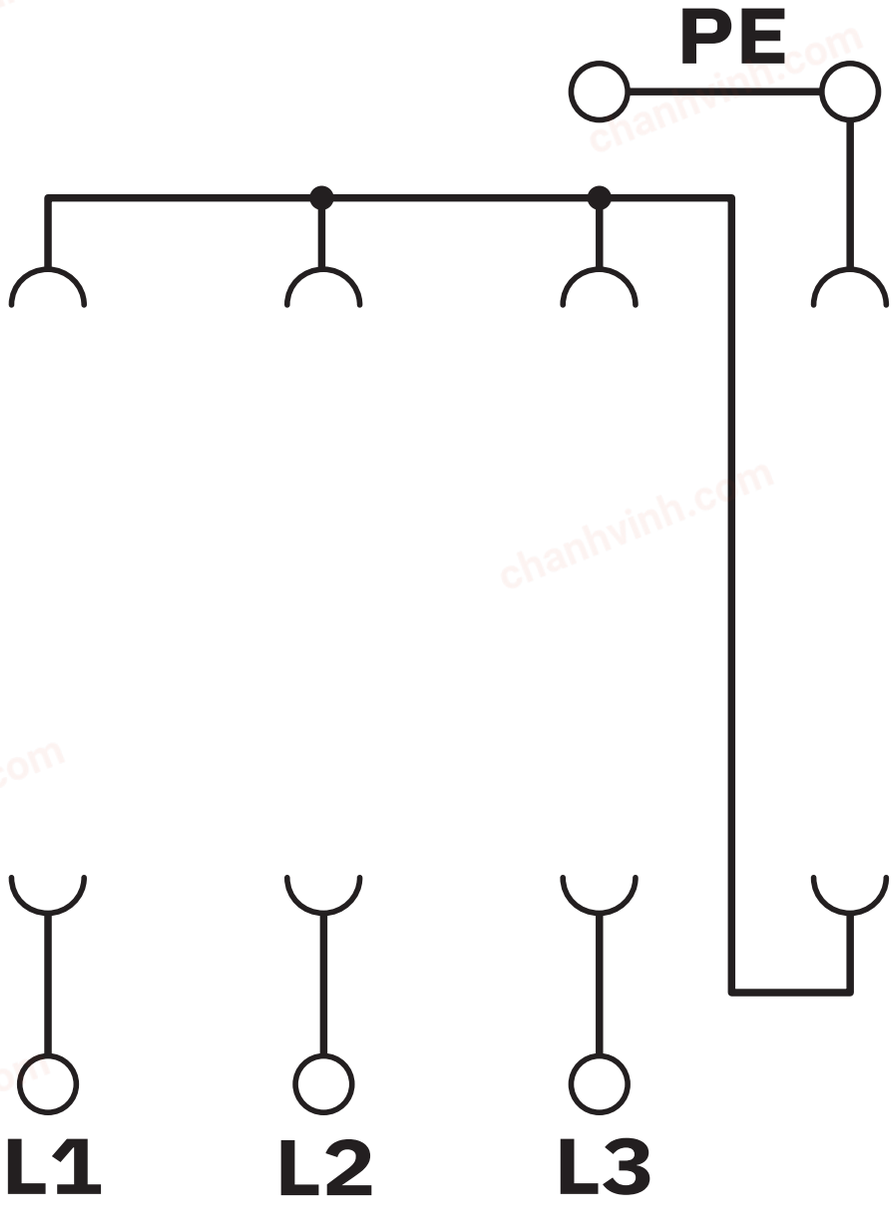
chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

Circuit diagram



chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1468171

IECEE CB Scheme
Approval ID: NL-109184

CCA
Approval ID: NTR NL-8052

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

chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

Classifications

ECLASS

ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496

chanhvinh.com

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

1468171

https://www.phoenixcontact.com/gb/products/1468171

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 2025 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk