

# VAL-CP-3S-BE - Type 2 surge protection base element



2880930

<https://www.phoenixcontact.com/us/products/2880930>

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Base element for type 2 arresters of the VALVETRAB compact series of products. Version for 3-phase power supply with separate installation of N and PE conductors.

## Commercial data

Item number	2880930
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1311
GTIN	4046356013192
Weight per piece (including packing)	222.9 g
Weight per piece (excluding packing)	222.9 g
Customs tariff number	85363030
Country of origin	DE

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## Technical data

### Product properties

Product type	Base element
IEC test classification	II
	T2
Number of positions	4
Surge protection fault message	Remote indication contact
Number of ports	One

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
Indicator/remote signaling	
Operating voltage	5 V AC ... 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC ... 1 A AC
	1 A DC (30 V DC)

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross-section flexible	2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Conductor cross-section rigid	2.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section AWG	12 ... 4
Connection method	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	28 ... 16

### Dimensions

Width	49.2 mm
Horizontal pitch	2.7 Div.

### Material specifications

Flammability rating according to UL 94	V-0
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CTI value of material	600
Insulating material	PBT-FR
Material group	I
Housing material	PBT-FR

## Protective circuit

Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	350 V AC
Rated load current $I_L$	40 A (Biconnect M4 fork-type cable lug 6 mm <sup>2</sup> )
	63 A (Clamping pocket 2x 10 mm <sup>2</sup> )
Short-circuit current rating $I_{SCCR}$	25 kA
Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm <sup>2</sup> )
	63 A (gG / TWIN ferrule 2x 10mm <sup>2</sup> )
Max. backup fuse with branch wiring	315 A (gG)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (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

## Mounting

Mounting type	DIN rail: 35 mm
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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