

Surge protection base-element - VAL-MS 3+V-BE



2905859

<https://www.phoenixcontact.com/gb/products/2905859>

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Base element for surge arresters, for isolated 1000 V DC voltage systems, for DIN rail mounting, 4-pos. base element without remote indication contact, for protecting two parallel strings/MPP trackers.

Commercial Data

Item number	2905859
Packing unit	32 pc
Minimum order quantity	32 pc
Sales Key	CL1231
Product Key	CL1231
Catalog Page	Page 59 (C-6-2015)
GTIN	4055626002804
Weight per Piece (including packing)	225 g
Weight per Piece (excluding packing)	222 g
Customs tariff number	85366990
Country of origin	DE

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Technical Data

Notes

General

Note	The device is intended for touch proof installation in a housing. Ensure that there is a gap of at least 8 mm between the active and grounded parts in the connection area.
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Product properties

IEC test classification	PV T1 PV T2
EN type	T2
Type	Base element, DIN rail mounting
Distance between live and grounded parts	8 mm
Product type	Base element
Number of positions	2
Installation location	Interior
Installation location of the disconnect device	Internal
Accessibility	Accessible
Connection configuration	Y configuration
SPD failure behavior	OCM (Only in combination with VAL-MS...DC-PV-ST)
Surge protection fault message	none

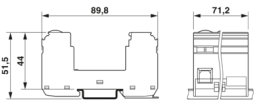
Insulation characteristics

Overvoltage category	III
Pollution degree	2

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm ² ... 16 mm ²) 4.5 Nm (25 mm ² ... 35 mm ²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm ² ... 25 mm ²
Conductor cross section solid	1.5 mm ² ... 35 mm ²
Conductor cross section AWG	15 ... 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm ² ... 16 mm ²

Dimensions

Dimensional drawing	
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Width	71.2 mm
Width	71.2 mm
Height	89.8 mm
Height	89.8 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Depth	51.5 mm
Horizontal pitch	4 Div.

Material specifications

Color	jet black RAL 9005
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
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Protective circuit

Mode of protection	(L+) - (L-)
	(L+) - PE
	(L-) - PE
Rated load current I_L	80 A

PV protective circuit

Connection configuration	Y configuration
SPD failure behavior	OCM (Only in combination with VAL-MS...DC-PV-ST)

Protective circuit DC voltage side (DC)

Rated load current I_L	80 A
Maximum continuous operating voltage U_{CPV}	1170 V DC

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 3000 m (amsl (above mean sea level))
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

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Standards/specifications	EN 50539-11
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Mounting

Mounting type	DIN rail: 35 mm
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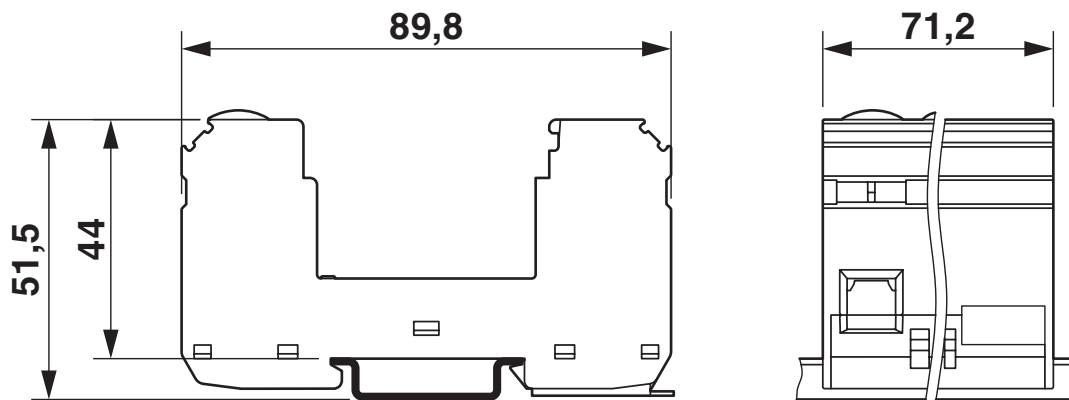


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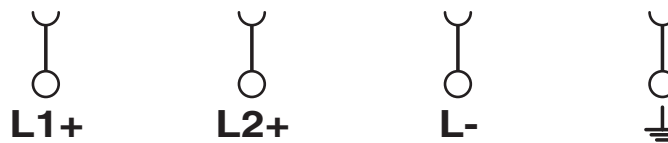
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Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-9.0	27130803
ECLASS-10.0.1	27130803
ECLASS-11.0	27130803

ETIM

ETIM 8.0	EC000472
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UNSPSC

UNSPSC 21.0	39121600
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Partition plate

Partition plate - ATP-QTTCB - 3206238

<https://www.phoenixcontact.com/gb/products/3206238>

Partition plate, length: 102 mm, width: 2 mm, height: 54 mm, color: gray



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