

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
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
Country of origin	DE



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Technical data

Notes

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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.

Product properties

IEC test classification	PV T1
	PV T2
EN type	T2
Туре	Base element, DIN rail mounting
Distance between live and grounded parts	8 mm
Product type	Base element
Product family	VALVETRAB MB
Number of positions	2
Installation location	Interior
Installation location of the disconnect device	Internal
Accessibility	Accessible
Connection configuration	Y configuration
SPD failure behavior	OCFM (Only in combination with VAL-MSDC-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 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

Dimensions



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Dimensional drawing	99,8
Width	71.2 mm
Height	89.8 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	4 Div.

Material specifications

Color	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

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	OCFM (Only in combination with VAL-MSDC-PV-ST)

Protective circuit DC voltage side (DC)

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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)
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)



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Standards and regulations

EN 61643-31

Standards/specifications	EN 61643-31
Note	2019
Standards/specifications	IEC 61643-31
Note	2018

Mounting

Mounting type	DIN rail: 35 mm



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Classifications

ECLASS

	ECLASS-11.0	27130803		
	ECLASS-13.0	27171292		
ETIM				
	ETIM 9.0	EC002496		
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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