

2881803

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Base element for type 2 arresters of the VALVETRAB MS product range, with remote indication contact. Version for 3-phase power supplies with PEN conductor.

Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Wide range of applications due to various nominal voltages
- · High degree of modularity provides individual solutions for every application

Commercial data

Item number	2881803
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4046356091442
Weight per piece (including packing)	233 g
Weight per piece (excluding packing)	204 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

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Note	For installation into a touch protected cabinet. For applications
	with U _C > 500 V distances at the side and distances at the
	connection area must be minimum of 5 mm between different
	active parts including earthed parts.

Product properties

Product type	Base element
Product family	VALVETRAB MS
IEC test classification	II .
	T2
EN type	T2
Туре	Base element, DIN rail mounting
Number of positions	3
Surge protection fault message	Remote indication contact

Insulation characteristics

Nominal frequency f_N

Overvoltage category	III
Pollution degree	2

Electrical properties

ndicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A DC

50 Hz (60 Hz)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm² 16 mm²)
	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



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Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross-section flexible	0.14 mm² 1.5 mm²
Conductor cross-section rigid	0.14 mm² 1.5 mm²
Conductor cross-section AWG	28 16

Dimensions

Dimensional drawing	98.7
Width	53.4 mm
Height	98.7 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	3 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	1
Housing material	PBT

Mechanical properties

Mechanical data

Protective circuit

Direction of action	3L-PEN
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage $\mathbf{U}_{\mathbf{C}}$	800 V AC
Rated load current I _L	80 A
Short-circuit current rating I _{SCCR}	25 kA
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	200 A (gG)

Environmental and real-life conditions

Ambient conditions



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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	≤ 2000 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)

Approvals

UL specifications

Nominal voltage	690 V AC
SPD Type	4CA
UL indicator/remote signaling	
Operating voltage	125 V AC
AC operating current	1 A AC
UL connection data	
Tightening torque	30 lb _f -in.
Conductor cross-section AWG	14 2

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting

	Mounting type	DIN rail: 35 mm

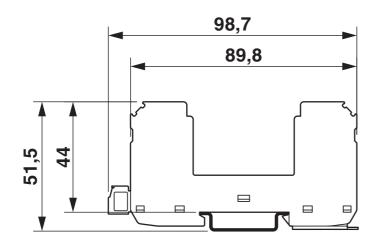


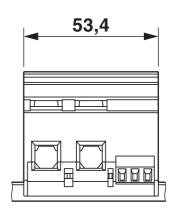
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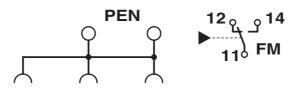
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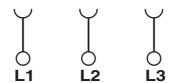
Dimensional drawing





Circuit diagram







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Approvals

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cUL Recognized

Approval ID: FILE E 330181



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IECEE CB Scheme

Approval ID: AT 2905/M1

CCA

Approval ID: NTR-AT 1947-A



KEMA-KEUR

Approval ID: 71-148002



DNV GL

Approval ID: TAE000041M



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

UAE-RoHS

Approval ID: 22-09-51251



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Classifications

ECLASS

	ECLASS-13.0	27171292
	ECLASS-15.0	27171292
ΕT	¬IM	
	ETIM 9.0	EC002496
UN	NSPSC	
	UNSPSC 21.0	39121600



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Environmental product compliance

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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%
EF3.0 Climate Change	
CO2e kg	0.946 kg CO2e

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