

2881816

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Base element for type 2 arresters of the VALVETRAB MS product range. Version for 3-phase power supply 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	2881816
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
Catalog page	Page 67 (C-4-2019)
GTIN	4046356130417
Weight per piece (including packing)	224.7 g
Weight per piece (excluding packing)	203.2 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 $U_C > 500 \text{ V}$ 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

IEC test classification	II
	T2
EN type	T2
Туре	Base element, DIN rail mounting
Product type	Base element
Product family	VALVETRAB MS
Number of positions	3
Surge protection fault message	none

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

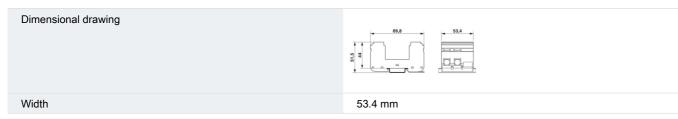
#### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
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#### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	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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Height	89.8 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	3 Div.

#### Material specifications

Color	black (RAL 9005)
	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

Direction of action	3L-PEN
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage $\mathbf{U}_{\mathbb{C}}$	800 V AC
Rated load current I <sub>L</sub>	80 A
Short-circuit current rating I <sub>SCCR</sub>	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

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 connection data				
Tightening torque	30 lb <sub>f</sub> -in.			
Conductor cross section AWG	14 2			



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#### Standards and regulations

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

#### Mounting

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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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