

## Type 2 surge protection base element - VAL-MS/3+0-BE - 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.

### Product Features

- ✓ Versions with and without floating remote indication contact
- ✓ Single/multi-position design for accommodating protective plugs
- ✓ DIN rail module
- ✓ Coding when protective plug is inserted for the first time



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	220.0 GRM
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### Dimensions

Height	90 mm
Width	53.4 mm
Depth	44 mm
Horizontal pitch	3 Div.

#### 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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

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## Technical data

### Ambient conditions

Shock (operation)	25 g
Vibration (operation)	5 g

### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II
	T2
EN type	T2
Mounting type	DIN rail: 35 mm
Color	black
Housing material	PBT
Pollution degree	2
Inflammability class according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	3

### Additional descriptions

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.
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### Protective circuit

Nominal frequency $f_N$	50 Hz
	60 Hz
Maximum continuous operating voltage $U_C$	800 V AC
Rated load current $I_L$	80 A
Short-circuit current rating $I_{SCCR}$	25 kA
Max. required backup fuse with branch wiring	200 A AC (gG)
Max. required backup fuse with V-type through wiring	80 A AC (gG)

### Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm <sup>2</sup>
Conductor cross section stranded max.	25 mm <sup>2</sup>
Conductor cross section solid min.	1.5 mm <sup>2</sup>
Conductor cross section solid max.	35 mm <sup>2</sup>
AWG conductor cross section	15 ... 2
	10 ... 2 (UL)
Screw thread	M5

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### Technical data

#### Connection data

Tightening torque	4.5 Nm
	30 lb in (UL)
Stripping length	16 mm

#### NEMA/UL protective circuit

UL class	Type 4 SPD for Type 2 applications
Nominal voltage $U_N$	690 V AC

### Classifications

#### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805

#### ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000472
ETIM 5.0	EC000472

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

### Approvals

#### Approvals

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#### Approvals

ÖVE / CCA / IEC EE CB Scheme / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / GL / ÖVE / CCA / IEC EE CB Scheme / KEMA-KEUR / CSA / cULus Recognized

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### Approvals

Ex Approvals

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Approvals submitted


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### Approval details

ÖVE 

CCA

IECEE CB Scheme 

UL Recognized 

KEMA-KEUR 

cUL Recognized 

GOST 


GL

ÖVE 

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### Approvals

CCA

IECEE CB Scheme 

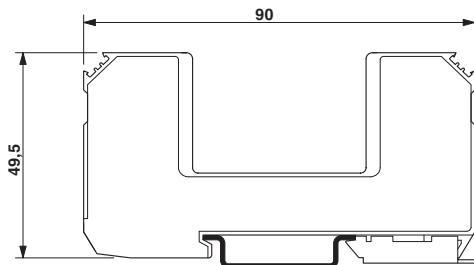
KEMA-KEUR 

CSA

cULus Recognized 

### Drawings

Dimensioned drawing



Circuit diagram

