

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

### 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)	240.0 g
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### Dimensions

Height	99 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))

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### Technical data

#### Ambient conditions

Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g
Vibration (operation)	5g

#### 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
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Remote indicator contact

#### 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 voltage $U_c$	800 V AC
Rated load current $I_L$	80 A
Short-circuit current rating $I_{SCCR}$	25 kA
Max. backup fuse with branch wiring	200 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	PDT contact
Operating voltage	5 V AC ... 250 V AC
	125 V AC (UL)
	30 V DC
Operating current	5 mA AC ... 1.5 A
	1 A (UL)

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### Technical data

#### Indicator/remote signaling

	1 A
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm
	4 lb <sub>f</sub> -in. (UL)
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16
	30 ... 14 (UL)

#### Connection data

Connection method	Screw connection
Conductor cross section flexible min.	1.5 mm <sup>2</sup>
Conductor cross section flexible 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>
Conductor cross section AWG	15 ... 2
	10 ... 2 (UL)
Screw thread	M5
Tightening torque	4.5 Nm
	30 lb <sub>f</sub> -in. (UL)
Stripping length	16 mm

#### UL specifications

SPD Type	4 (for Type 2 applications)
Nom. voltage	690 V AC

#### UL indicator/remote signaling

Operating voltage	125 V AC
Operating current	1 A
Tightening torque	4 lb <sub>f</sub> -in.
Conductor cross section AWG	30 ... 14

#### UL connection data

Conductor cross section AWG	10 ... 2
Tightening torque	30 lb <sub>f</sub> -in.

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### 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	27130803
eCl@ss 7.0	27130803
eCl@ss 8.0	27130803

#### ETIM

ETIM 2.0	EC000472
ETIM 3.0	EC000472
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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ÖVE / CCA / IECCEB Scheme / UL Recognized / KEMA-KEUR / cUL Recognized / GL / EAC / EAC / CSA / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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#### Approval details


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## Approvals


ÖVE 

CCA

IECEE CB Scheme 

UL Recognized 

KEMA-KEUR 


cUL Recognized 

GL

EAC

EAC

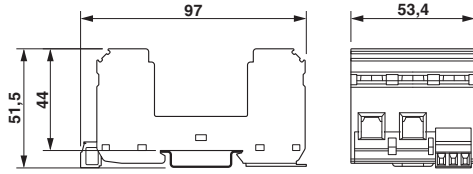
CSA

cULus Recognized 

## Drawings

# Type 2 surge protection base element - VAL-MS/3+0-BE/FM - 2881803

Dimensional drawing



Circuit diagram

