

## Type 2 surge protection base element - VAL-MS/3+0-BE - 2881816

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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 g
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 %

## Type 2 surge protection base element - VAL-MS/3+0-BE - 2881816

### Technical data

#### Ambient conditions

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	None

#### 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.
------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

#### 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)

#### 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

## Type 2 surge protection base element - VAL-MS/3+0-BE - 2881816

### Technical data

#### Connection data

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 connection data

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

### 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

## Type 2 surge protection base element - VAL-MS/3+0-BE - 2881816

### Approvals

#### Approvals

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

---

#### Ex Approvals

---


#### Approvals submitted


---

#### Approval details


ÖVE 

CCA

IECEE CB Scheme 

UL Recognized 

KEMA-KEUR 

cUL Recognized 


GL

EAC

CSA

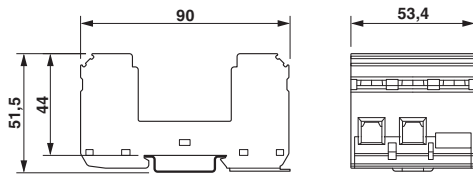
## Type 2 surge protection base element - VAL-MS/3+0-BE - 2881816

### Approvals

cULus Recognized  US

### Drawings

Dimensional drawing



Circuit diagram

