

## Type 2 surge protection base element - VAL-MS/3+1-BE/FM-UD - 2858674

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 series of products, with remote indication contact. Version for 3-phase power supply with separate installation of N and PE conductors.



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	282.7 GRM
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	99 mm
Width	71 mm
Depth	44 mm

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

#### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II

# Type 2 surge protection base element - VAL-MS/3+1-BE/FM-UD - 2858674

## Technical data

### General

	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

### Protective circuit

Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_c$	500 V AC
Rated load current $I_L$	80 A
Short-circuit current rating $I_{SCCR}$	25 kA
Max. backup fuse with branch wiring	125 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 ... 0.75 A AC
	1 A AC (UL)
	1 A DC
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 stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded 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>
AWG conductor cross section	28 ... 16
	30 ... 14 (UL)

### Connection data

# Type 2 surge protection base element - VAL-MS/3+1-BE/FM-UD - 2858674

## Technical data

### 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
Tightening torque	4.5 Nm
	30 lb <sub>r</sub> -in. (UL)
Stripping length	16 mm

### UL specifications

UL class	Type 4 SPD for Type 2 applications
Nom. voltage	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	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

# Type 2 surge protection base element - VAL-MS/3+1-BE/FM-UD - 2858674

## Classifications

### UNSPSC

UNSPSC 13.2	39121620
-------------	----------

## Approvals

### Approvals

---

#### Approvals

KEMA-KEUR / GOST / KEMA-KEUR / ÖVE / CCA / IECIEE CB Scheme

---


#### Ex Approvals


---


#### Approvals submitted

---

## Approval details

KEMA-KEUR 

GOST 

KEMA-KEUR 

ÖVE 

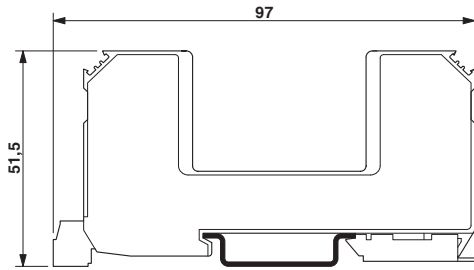
CCA

IECEE CB Scheme 

# Type 2 surge protection base element - VAL-MS/3+1-BE/FM-UD - 2858674

## Drawings

Dimensioned drawing



Circuit diagram

