

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



2920492

<https://www.phoenixcontact.com/us/products/2920492>

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 documentation. Our general terms of use for downloads are valid.



Base element for type 2 arresters of the VALVETRAB MS product range. Version for 3-phase power supply with PEN conductor.

## Commercial data

Item number	2920492
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1322
GTIN	4046356182652
Weight per piece (including packing)	229.2 g
Weight per piece (excluding packing)	398.2 g
Customs tariff number	85363030
Country of origin	DE

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

2920492

<https://www.phoenixcontact.com/us/products/2920492>

## Technical data

### Notes

#### General

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 8 mm between different active parts including earthed parts.
------	---

### Product properties

Product type	Base element
Product family	VALVETRAB MS
IEC test classification	II T2
EN type	T2
Type	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	none

#### Insulation characteristics

Overvoltage category	III
Pollution degree	2

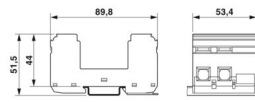
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
-------------------------	---------------

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross-section flexible	1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup>
Conductor cross-section rigid	1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Conductor cross-section AWG	15 ... 2

### Dimensions

Dimensional drawing	
Width	53.4 mm
Height	90 mm
Depth	44 mm

### Material specifications

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



2920492

<https://www.phoenixcontact.com/us/products/2920492>

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
-----------------	----

## Protective circuit

Direction of action	3L-PEN
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	1000 V AC
Rated load current $I_L$	80 A
Short-circuit current rating $I_{SCCR}$	25 kA
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	200 A AC (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
Vibration (operation)	5g

## Approvals

### UL specifications

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

### UL connection data

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

## Standards and regulations

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

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



2920492

<https://www.phoenixcontact.com/us/products/2920492>

## Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

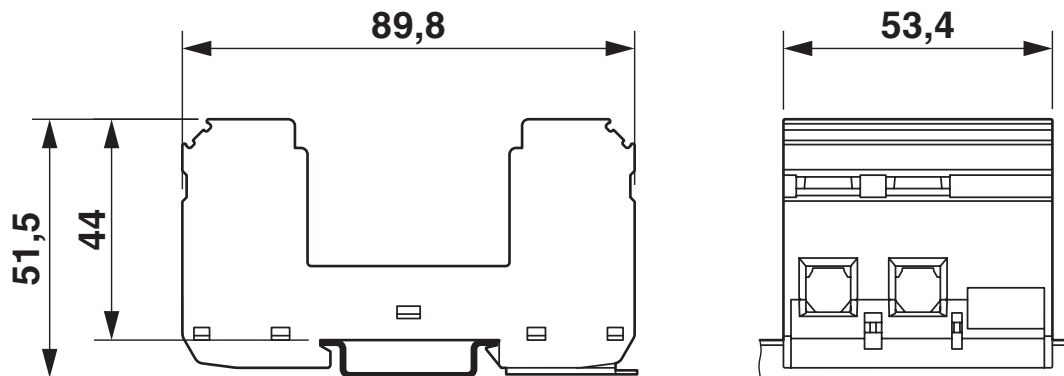
# VAL-MS/3+0/HD-BE - Type 2 surge protection base element

2920492

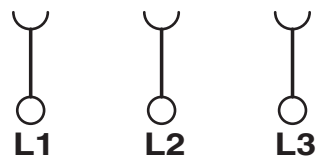
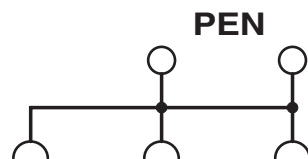
<https://www.phoenixcontact.com/us/products/2920492>

## Drawings

Dimensional drawing



Circuit diagram



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



2920492

<https://www.phoenixcontact.com/us/products/2920492>

## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
-------------------------------------	--

	No substance above 0.1 wt%
--	----------------------------

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)