

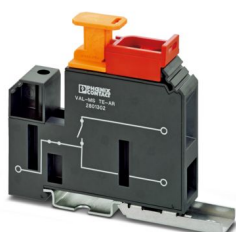
# VAL-MS TE-AR - Surge protection base-element



2801302

<https://www.phoenixcontact.com/us/products/2801302>

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Terminal element for isolation of field wires. Provides separate field and house termination, tool-free isolation disconnect and test point. Design: 1-channel, bridgeable.

## Your advantages

- Tagout-ready, automatic locking disconnect
- Separate field and house wire termination
- Tool-free field wire disconnect and test point
- IP20 touch safe when connected
- Tested for railway applications

## Commercial data

Item number	2801302
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1151
GTIN	4046356895613
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85363010
Country of origin	US

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## Technical data

### Product properties

Product type	Base element
Product family	VALVETRAB MS
Type	Termination block with disconnect and test point
Number of positions	1

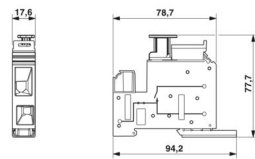
### Electrical properties

Nominal voltage $U_N$	500 V AC
Nominal current $I_N$	76 A

### Connection data

Connection method	Screw terminal block
Tightening torque	3 Nm ... 4.5 Nm (Ground)
	1.5 Nm ... 1.8 Nm (House)
	2.5 Nm ... 3 Nm (Field)
Conductor cross-section flexible	0.5 mm <sup>2</sup> ... 15 mm <sup>2</sup> (10 mm strip length)
	1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup> (14 mm strip length)
Conductor cross-section rigid	0.5 mm <sup>2</sup> ... 15 mm <sup>2</sup> (10 mm strip length)
	1.5 mm <sup>2</sup> ... 25 mm <sup>2</sup> (14 mm strip length)
Conductor cross-section AWG	20 ... 6 (10 mm strip length)
	12 ... 4 (14 mm strip length)

### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	94 mm
Depth	78 mm

### Material specifications

Color	black (RAL 9005)
	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PA

### Mechanical properties

#### Mechanical data

Open side panel	No
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	max. 3000 m

## Mounting

Mounting type	DIN rail mounting with additional retaining screw
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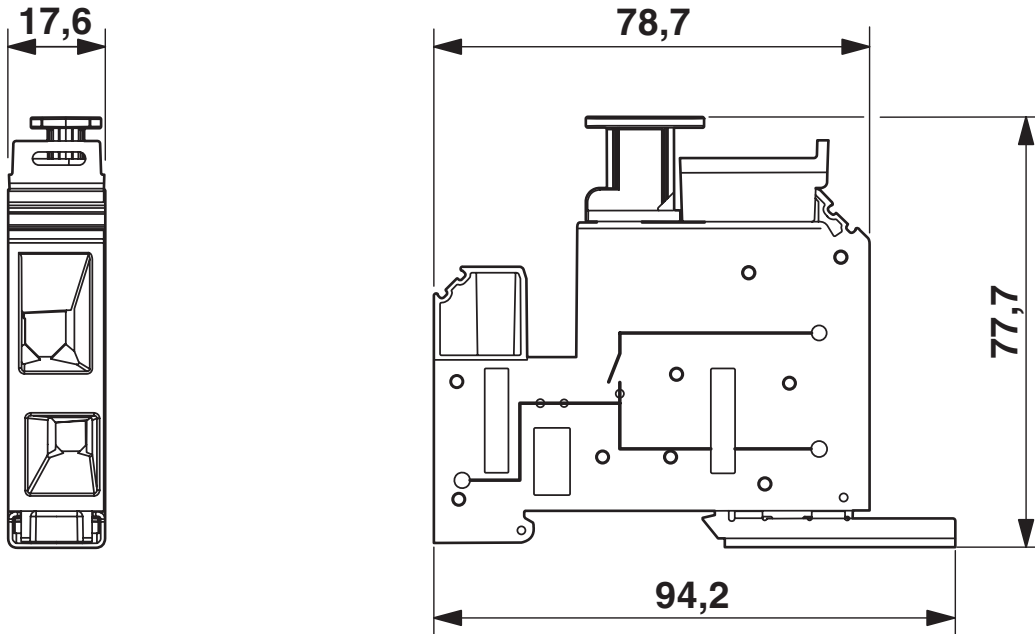
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## Drawings

Dimensional drawing



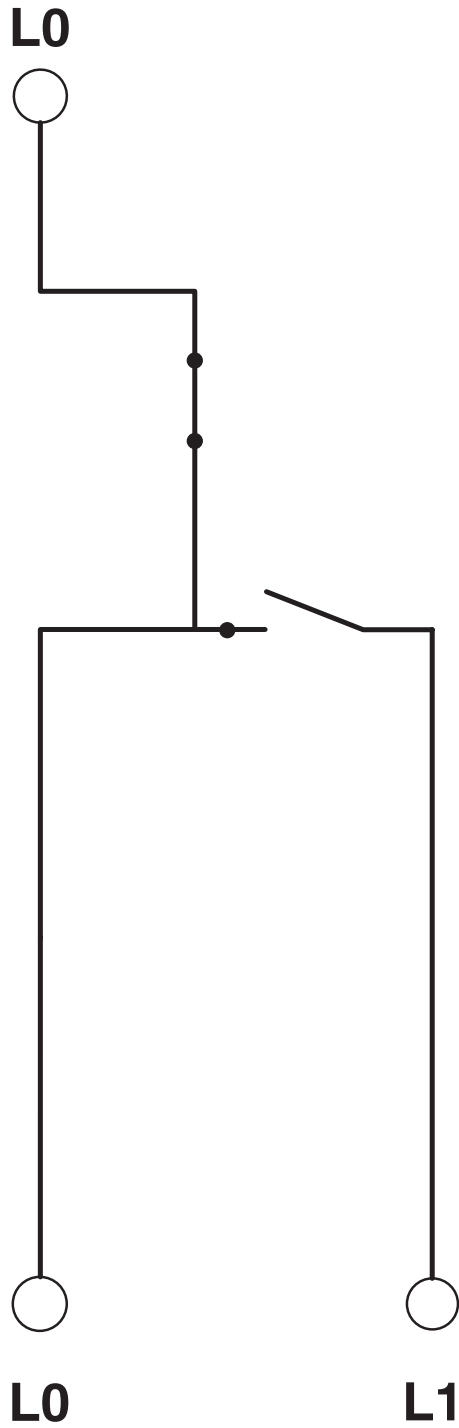
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Connection diagram



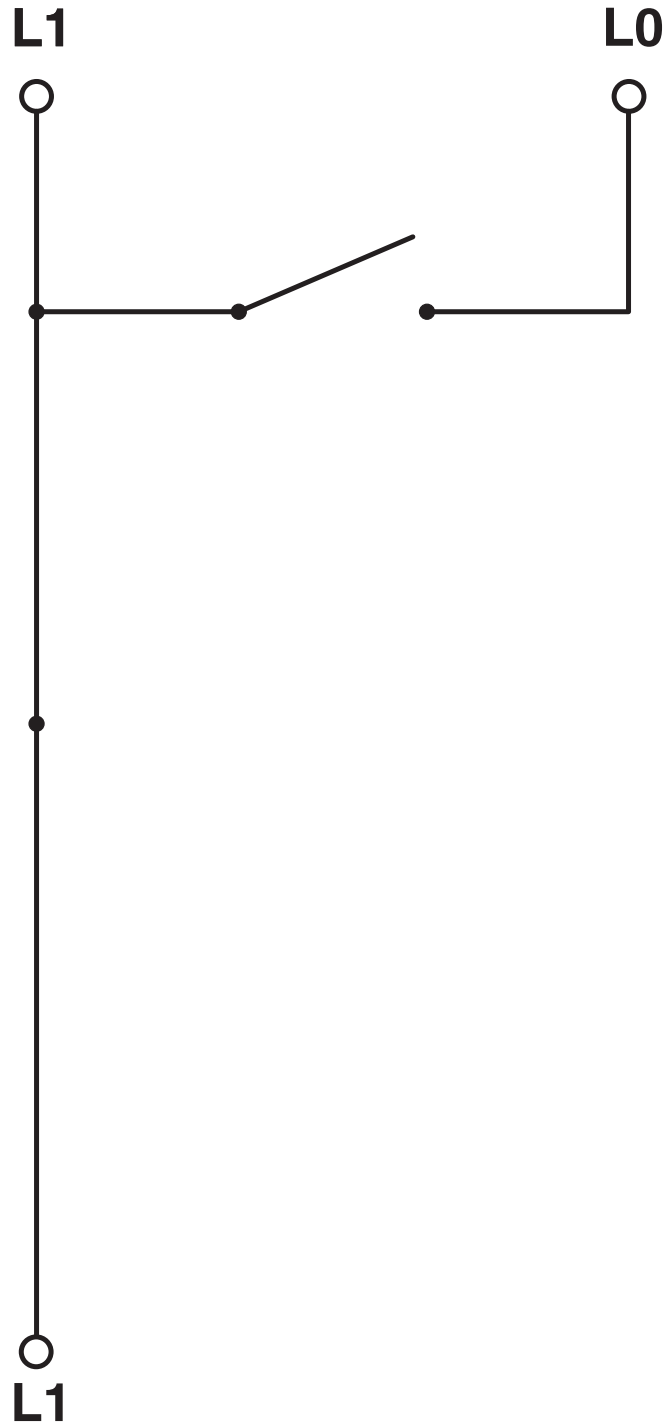
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Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0

27171292

### ETIM

ETIM 9.0

EC002496

### UNSPSC

UNSPSC 21.0

39121620

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
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### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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