

Type 2 surge arrester - VAL-MB-T2 600DC-PV/2+V - 2906295

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Surge arrester for 2-pos. isolated 600 V DC voltage systems, for DIN rail mounting, temperature-monitored protective elements, status message on the module.

The figure shows the VAL-MB-T1/
T2 1500DC-PV/2+V version

Your advantages

- ✓ Double terminal block for safe and easy equipotential bonding connection
- ✓ Screw shafts with raised domes to ensure safe working
- ✓ Main connections with extended insertion funnels for increased resistance to creepage
- ✓ Visual display for checking the status directly on the device
- ✓ Compact design for space-saving installation

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 063034
GTIN	4055626063034

Technical data

Dimensions

Height	120 mm
Width	71.2 mm
Depth	65.5 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	≤ 6000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	50g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)

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Ambient conditions

Vibration (operation)	5g (5 - 500 Hz/2.5 h/X, Y, Z)
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General

IEC test classification	PV T2
SPD failure behavior	OCM (Open-circuit mode)
Connection configuration	Y configuration
Installation location	Inside
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mode of protection	(L+) - (L-)
	(L+) - PE
	(L-) - PE
Mounting type	DIN rail: 35 mm
Color	traffic grey A RAL 7042
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, one-piece
Surge protection fault message	optical

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	800 V DC
Short-circuit current rating I_{SCPV}	2000 A
Continuous operating current I_{CPV}	< 20 μ A
Rated load current I_L	50 A
Residual current I_{PE}	$\leq 20 \mu$ A DC
	$\leq 370 \mu$ A AC
Standby power consumption P_c	≤ 16 mVA
Nominal discharge current (8/20) μ s	20 kA
Maximum discharge current I_{max} (8/20) μ s	40 kA
Total discharge current I_{total} (8/20) μ s	40 kA
Voltage protection level U_p	≤ 2.9 kV
Residual voltage U_{res}	≤ 2.9 kV (at I_n)
	≤ 2.1 kV (at 3 kA)
	≤ 2.4 kV (at 6.25 kA)
	≤ 2.5 kV (at 10 kA)
	≤ 2.8 kV (at 15 kA)
	≤ 3.6 kV (at 40 kA)
Response time t_A	≤ 25 ns
Insulation resistance R_{iso}	> 5 G Ω (at 500 V DC)

Connection data

Connection method	Screw connection
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Connection data

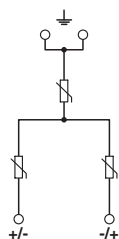
Screw thread	M5
Tightening torque	3 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm ² ... 35 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	2.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	10 mm ²
Conductor cross section AWG	14 ... 2

Standards and Regulations

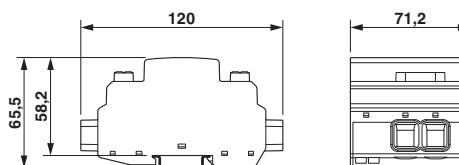
Standards/regulations	EN 50539-11 2013
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Drawings

Circuit diagram



Dimensional drawing



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