


VAL-MS 600DC-PV/2+V

Order No.: 2800642



Surge arrester for 2-pos. isolated 600 V DC voltage systems, for DIN rail mounting, 3-pos. base element, three plug-in temperature-monitored protective elements, status message on each plug.

Commercial data	
EAN	4  046356 614979
Note	Made-to-order
Pack	1
Customs tariff	85363010
Country of Origin	DE

Product notes

WEEE/RoHS-compliant since:
12/08/2010



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Technical data	
Standards	
Housing material	PBT / PA
Inflammability class according to UL 94	V0
Standards for air and creepage distances	prEN 50539-11
Degree of protection	IP20

Mounting type	DIN rail mounting
Ambient temperature (operation)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 %
Altitude	≤ 2000 m
Width	53.40 mm
Height	99.00 mm

Protective circuit

IEC category	PV-□
Nominal load current I_L	80 A DC
Ground conductor current I_{PE}	≤ 20 μA (DC)
	≤ 300 μA (AC)
Standby power consumption P_C	≤ 20 mVA
Max. discharge surge current I_{max} (8/20) μs	40 kA
Nominal discharge surge current I_n (8/20) μs	15 kA
Protection level Up (L+) - (L-)	≤ 2.7 kV
Protection level UP (L+/L-) - PE	≤ 2.7 kV
Residual voltage (L+) - (L-)	≤ 2.7 kV
	≤ 1.9 kV (at 2 kA)
	≤ 2.2 kV (at 5 kA)
	≤ 2.5 kV (at 10 kA)
	≤ 2.9 kV (At 20 kA)
	≤ 3.4 kV (At 30 kA)
	≤ 3.8 kV (At 40 kA)
Residual voltage (L+/L-) - PE	≤ 2.7 kV
	≤ 1.9 kV (at 2 kA)
	≤ 2.2 kV (at 5 kA)
	≤ 2.5 kV (at 10 kA)
	≤ 2.9 kV (At 20 kA)
	≤ 3.4 kV (At 30 kA)
	≤ 3.8 kV (At 40 kA)
Response time	≤ 25 ns
Max. required backup fuse with branch wiring	(Not required)

PV protective circuit DC side

Rated voltage U_{OCSTC}	≤ 670 V DC
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Rated operating voltage U_{CPV}	800 V DC
Immunity to short-circuiting I_{SCPV}	80 A

Standards

Standards/regulations	prEN 50539-11 2011
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Accessories

Item	Designation	Description
Bridges		
2818339	MPB F200X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 200 mm
2818342	MPB F400X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 400 mm
2818355	MPB F600X16/ 1GS	Wiring bridge flexible, diameter: 16 mm ² , with a fork-type cable lug on one side, length: 600 mm

Marking

1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
2749589	ZBN 18,LGS:ERDE	Zack marker strip, Strip, white, Labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm
2749576	ZBN 18,LGS:L1-N,ERDE	Zack marker strip, Strip, white, Labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm
0800763	ZBN 18:SO/CMS	Zack marker strip, white, For terminal block width: 18 mm
2809128	ZBN 18:UNBEDRUCKT	Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm