

VAL-MS 600DC/2+V


Order No.: 2805457



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Surge arrester for 2-pos. isolated and grounded DC voltage systems 600 V DC, for DIN rail mounting, 3-pos. base element (L+, L-, ground), three pluggable temperature-monitored varistors, status message on each connector.



Commercial data	
GTIN (EAN)	4 046356 458016 
sales group	J022
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 63 (TT-2011)

Product notes

WEEE/RoHS-compliant since:
10/08/2008



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Technical data

Standards	
Housing material	PBT / PA
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	DIN EN 60664-1
	DIN EN 61643-11
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Design	DIN rail module, two-section, divisible
Number of positions	3
Ambient temperature (operation)	-40 °C ... 80 °C
Message: Surge protection fault	Optical
Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)
Width	53.40 mm
Height	65.50 mm
Length	90.00 mm
Pitch unit	3 Div.

Protective circuit

IEC category	II
	T2
EN type	T2
Nominal voltage U_N	600 V DC (Non-load voltage U_{OC})
Arrester rated voltage U_C	600 V DC
Nominal load current I_L	≤ 80 A DC
Ground conductor current I_{PE}	≤ 20 μ A
Standby power consumption P_C	≤ 12 mW
Max. discharge surge current I_{max} (8/20) μ s	40 kA
Nominal discharge surge current I_n (8/20) μ s	15 kA
Protection level U_p	≤ 3 kV (15 kA)
	≤ 3.6 kV (20 kA)
Protection level U_p (L+) - (L-)	≤ 3 kV
Protection level U_p (L+/L-) - PE	≤ 3 kV
Residual voltage	≤ 2.5 kV (at 5 kA)
Residual voltage (L+) - (L-)	≤ 2.5 kV (at 5 kA)
Residual voltage (L+/L-) - PE	≤ 2.5 kV (at 5 kA)
Response time	≤ 25 ns

Connection, protective circuit

Connection method	Screw connection
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Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section stranded min.	1.5 mm ²
Conductor cross section stranded max.	25 mm ²
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section AWG/kcmil min.	15
Conductor cross section AWG/kcmil max	2

Standards

Standards/regulations	DIN EN 61643-11/A11 2007
	IEC 61643-1 2005
	IEC 60364-7-712 2002

Certificates / Approvals



Certification GOST

Accessories

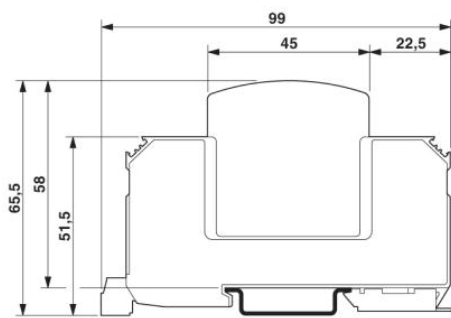
Item	Designation	Description
Bridges		
2818339	MPB F200X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 200 mm
2818342	MPB F400X16/ 1GS	Wiring bridge flexible, diameter 16 mm ² , with a fork-type cable lug on one side, length: 400 mm
2818355	MPB F600X16/ 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	Marking labels, printed horizontally, strips with 5 labels, GND (grounding symbol), color: White
2749576	ZBN 18,LGS:L1-N,ERDE	Marker labels, printed horizontally, strips with 5 labels, L1, L2, L3, N, GND, color: white
0800763	ZBN 18:SO/CMS	Marker labels, 5-section, special printing, labeled according to customer requirements (Please specify the required marking with order), for terminal width: 17.5 mm, color: White
2809128	ZBN 18:UNBEDRUCKT	Unprinted marker labels, strips with 5 labels for individual labeling with M-PEN or CMS system, for terminal block width: 17.5 mm, color: White

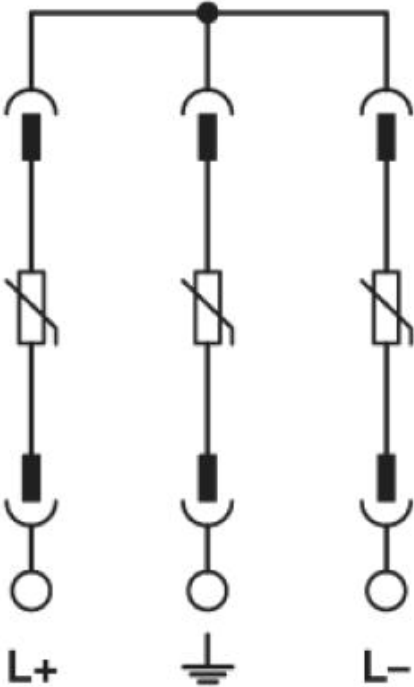
Diagrams/Drawings

Dimensioned drawing



The illustration shows the dimensional drawing for a version with remote indicator contact

Circuit diagram



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