

VAL-MS 600DC/2+V-FM


Order No.: 2800195

The product photo shows a version for 1000 VDC



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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) with remote indication contact, three pluggable temperature-monitored varistors, status message on each connector.

Commercial data	
EAN	4  046356 503136
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 63 (TT-2011)

Product notes

WEEE/RoHS-compliant since:
04/08/2009



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Technical data	
Standards	
Housing material	PBT / PA
Inflammability class according 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, remote indicator contact
Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)
Width	53.40 mm
Height	65.50 mm
Length	99.00 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
Tightening torque	30 lb in (UL)
AWG conductor cross section	10 ... 2 (UL)

Remote indicator contact

Switching function	PDT, 1-pos.
Connection method	MC 1,5/3
Screw thread	M2
Tightening torque	0.25 Nm
	4 lb in (UL)
Stripping length	7 mm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
AWG conductor cross section	30 ... 14 (UL)
Maximum operating voltage U _{max.} AC	250 V AC
Max. operating current I _{max.}	1.5 A AC (250 V AC)
	1.5 A DC (30 V DC)

Standards

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

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