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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Type 2 surge protection device - VAL-MS 1000DC/1+V - 2804542

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Surge arrester for 2-pos. without fuse grounded DC voltage systems 1000 V DC, for DIN rail mounting, 2-pos. base element (L+, L-, ground), two pluggable temperature-monitored varistors, status message on each connector.

Product Features

- Plugs can be checked with CHECKMASTER
- With or without floating remote indication contact
- Type 2 consistent plug-in surge arresters
- Optical, mechanical status indication for the individual arresters
- Mechanical coding of all slots



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	1.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	35.6 mm
Depth	65.5 mm
Horizontal pitch	2 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

General

Housing material	PBT / PA
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Technical data

General

Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	DIN EN 60664-1
	DIN EN 61643-11
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical
Direction of action	(L+)-(L-/PE)

Protective circuit

IEC test classification	II
EN type	T2
Nominal voltage U_N	1000 V DC (Non-load voltage U_{oc})
Maximum continuous operating voltage U_c	1000 V DC
Rated load current I_L	≤ 80 A DC
Residual current I_{PE}	≤ 20 μ A
Standby power consumption P_c	≤ 20 mW
Max. discharge current I_{max} (8/20) μ s	30 kA
Nominal discharge current I_n (8/20) μ s	15 kA
Voltage protection level U_p	≤ 5 kV
Voltage protection level U_p (L+) - (L-)	≤ 5 kV
Residual voltage	≤ 5 kV
	≤ 4.5 kV (at 10 kA)
	≤ 4 kV (at 5 kA)
Residual voltage (L+) - (L-)	≤ 5 kV
	≤ 4.5 kV (at 10 kA)
	≤ 4 kV (at 5 kA)
Response time	≤ 25 ns

PV protective circuit DC side

Short-circuit current rating I_{SCPV}	80 A
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Connection, protective circuit

Connection method	Screw connection
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block

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Technical data

Connection, protective circuit

Screw thread	M5
Tightening torque	4.5 Nm
	30 lb _f -in. (UL)
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
AWG conductor cross section	10 ... 2 (UL)

Standards and Regulations

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

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130805
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805

ETIM

ETIM 2.0	EC000941
ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610

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Classifications

UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals


Approvals

GOST / UL Recognized / cUL Recognized / cULus Recognized


Ex Approvals

Approvals submitted

Approval details

GOST 

UL Recognized 

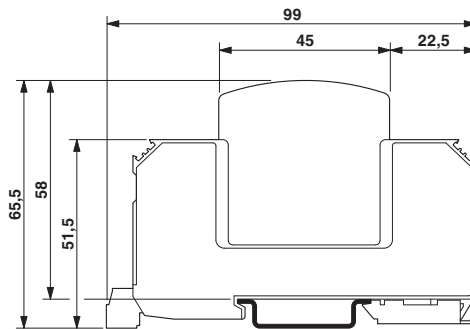
cUL Recognized 

cULus Recognized 

Drawings

Type 2 surge protection device - VAL-MS 1000DC/1+V - 2804542

Dimensioned drawing



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