Type 2 surge protection device - VAL-MS 600DC-PV/2+V - 2800642

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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.

Product Features

- Increased safety, thanks to compliance with standard EN 50539-11
- Reliable contact, thanks to integrated rotating latch
- Easy replacement, thanks to plug-in arresters
- Optimum inverter protection, thanks to low protection level
- Efficient replacement of defective plugs, thanks to visual status indicator
- Optimized maintenance planning, thanks to remote signaling
- Protection against mismatching, thanks to keyed plugs and base elements
- Always the right arrester, thanks to universal type 1/type 2 protective components

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	320.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	99 mm
Width	53.4 mm
Depth	65.5 mm
Horizontal pitch	3 Div.

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Technical data

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 %

General

Standards/specifications	EN 50539-11
IEC test classification	PV T2
SPD failure behavior	OCM
Mounting type	DIN rail: 35 mm
Housing material	PBT / PA
Pollution degree	2
Inflammability class according to UL 94	V0
Surge protection fault message	Optical

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	800 V DC
Open circuit voltage U_{OCSTC}	≤ 670 V DC
Short-circuit current rating I_{SCPV}	300 A
Rated load current I_L	80 A DC
Residual current I_{PE}	≤ 20 µA (DC)
	≤ 300 µA (AC)
Standby power consumption P_C	≤ 20 mVA
Nominal discharge current (8/20) µs	15 kA
Maximum discharge current I_{max} (8/20) µs	40 kA
Total discharge current I_{Total} (8/20)µs	40 kA
Voltage protection level U_p (L+) - (L-)	≤ 2.7 kV
Voltage protection level U_p (L+/L-) - PE	≤ 2.7 kV
Response time t_A	≤ 25 ns
Max. required backup fuse with branch wiring	Not required

Connection data

Connection method	Screw connection
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	25 mm²
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	35 mm²
Screw thread	M5

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Connection data

Tightening torque	4.5 Nm
Stripping length	16 mm
Connection method	Biconnect terminal blocks
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	16 mm²
Screw thread	M6
Tightening torque	30 lb_f-in.

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 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

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UL Recognized / KEMA-KEUR / cUL Recognized / cULus Recognized

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Approvals

Ex Approvals

Approvals submitted

Approval details

UL Recognized

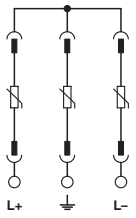
KEMA-KEUR

cUL Recognized

cULus Recognized

Drawings

Circuit diagram



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