


Type 2 surge protection device - VAL-MS-CN 1000DC-PV/4+V-FM - 2907820

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Surge arrester for 1000 V DC isolated voltage systems, DIN rail mounting, 5 pos. base element with remote signaling contact, 5 pos. plug-in temperature-controlled protective plug modules with status message on each plug, used for arresters with three parallel strings/maximum power point trackers (MPPT).

Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 244211
GTIN	4055626244211

Technical data

Dimensions

Height	98.57 mm
Width	89 mm
Depth	64.7 mm

Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 mm
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	(Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	2g (5-500 Hz/2.5 h/XYZ)

General

IEC test classification	PV II
	PV T2
EN type	T2
SPD failure behavior	OCM
Installation location	Interior
Accessibility	Accessible
Installation location of the disconnect device	Internal

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Technical data

General

Mode of protection	(L+) - (L-)
	(L+) - PE
	(L-) - PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6-FR
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Surge protection fault message	Optical, remote indicator contact

Protective circuit DC voltage side (DC)

Maximum continuous operating voltage U_{CPV}	1170 V DC
Short-circuit current rating I_{SCPV}	2000 A
Rated load current I_L	80 A
Residual current I_{PE}	$\leq 250 \mu\text{A AC}$
	$\leq 20 \mu\text{A DC}$
Nominal discharge current (8/20) μs	20 kA
Maximum discharge current I_{max} (8/20) μs	40 kA
Voltage protection level U_p	$\leq 3.8 \text{ kV}$
Response time t_A	$\leq 25 \text{ ns}$
Insulation resistance R_{iso}	$> 5 \text{ G}\Omega$ (at 500 V DC)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	125 V AC
	30 V DC
Operating current	3 A AC
	3 A DC
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16

Connection data

Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm

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Connection data

Conductor cross section flexible	1.5 mm ² ... 25 mm ²
Conductor cross section solid	1.5 mm ² ... 35 mm ²
Conductor cross section AWG	15 ... 2

UL indicator/remote signaling

Conductor cross section AWG	30 ... 14
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UL connection data

Conductor cross section AWG	10 ... 2
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Standards and Regulations

Standards/regulations	EN 50539-11
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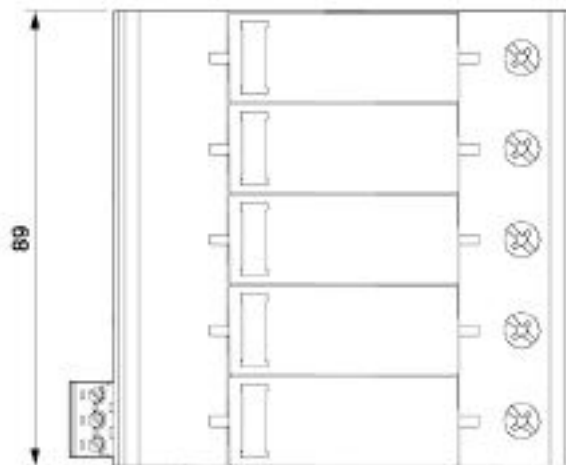
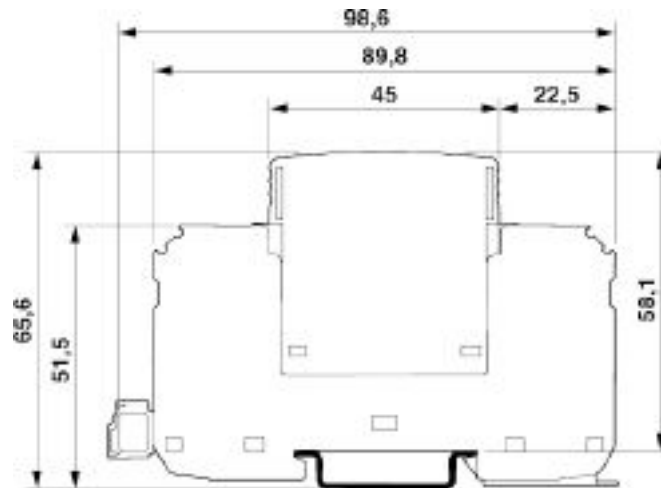
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Drawings

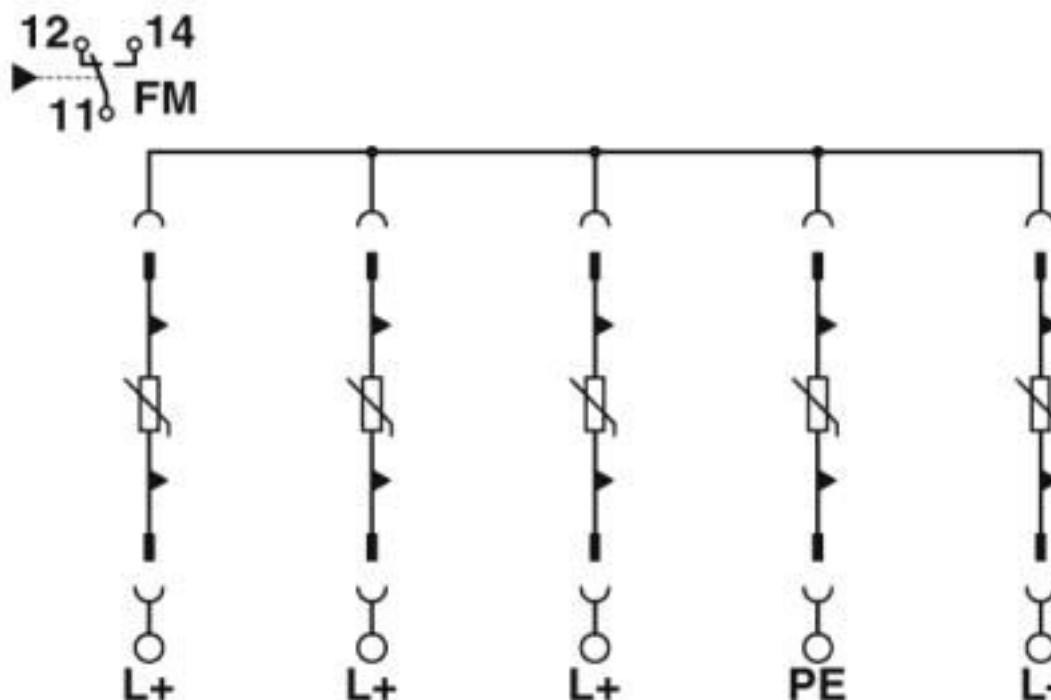
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Dimensional drawing



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Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130805
eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

ETIM

ETIM 3.0	EC000941
ETIM 4.0	EC000941
ETIM 5.0	EC000941
ETIM 6.0	EC000941
ETIM 7.0	EC000941

UNSPSC

UNSPSC 6.01	30212010
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Classifications

UNSPSC

UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

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