

## Surge protection SPD II 1 R 150V/50KA

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Surge protection for use in low-voltage supplies. The SPD II series is tested according to UL 1449 ed. 3 (file E354261) as type 4 for use in type 2 applications. These arresters are used in mains voltages up to 150 V L-PEN, installed according to the mains system specifications and are able to discharge a rated current of up to 50 kA (8/20  $\mu$ s) per path. The compact and modular structure of the SPD II is only 17.8 mm wide (1 E) per arrester, and enables rapid and simple exchange of the arrester. Thanks to this spare arrester, the SPD II 150 V protection can be re-activated after a failure.

### General ordering data

Order No.	<a href="#">1348350000</a>
Type	SPD II 1 R 150V/50KA
Version	Surge protection, Low voltage, with telecomm. contact
GTIN (EAN)	4050118152821
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Width	18 mm	Height	100 mm
Depth	73.5 mm	Net weight	142 g

**Temperatures**

Operating temperature	-40 °C...+70 °C	Storage temperature	-40 °C...+85 °C
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**General data**

Colour	Light Grey	Design	Installation housing; 1TE
Height with TS 35	74 mm	Lightning arrester	No
Mounting rail	TS 35, TS 35 x 15, TS 35 x 7.5	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP 20	UL 94 flammability rating	V-0

**Insulation coordination acc. to EN 50178**

Pollution severity	2	Surge voltage category	III
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**technical data**

Rated voltage (AC)	120 V	Highest continuous voltage (AC)	150 V
Short-circuit current rating $I_{SCCR}$	200 kA	Total discharge current $I_{total}$	50 kA
Discharge current, max. (8/20 $\mu$ s)	50 kA	Protection level $U_p$ (typ.)	$\leq 1200$ V
Signalling contact	250 V / 0,5 A, 48 VDC / 0,1 A	Colour	Light Grey
AC/DC/UC	AC	Response time	$\leq 100$ ns

**Connection data**

Clamping range, rated connection	25 mm <sup>2</sup>	Clamping range, rated connection, min.	4 mm <sup>2</sup>
Clamping range, rated connection, max.	35 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, min.	2.5 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, max.	25 mm <sup>2</sup>	Tightening torque, min.	2.5 Nm
Tightening torque, max.	3.5 Nm	Stripping length, rated connection	15 mm

**Connection data, remote alert**

Connection type [remote alert]	Screw connection, pluggable	Max. torque [remote alert]	0.22 Nm
Stripping length [remote alert]	5 mm	Cross-section for connected wire, solid core, min. [remote alert]	0.2 mm <sup>2</sup>
Cross-section for connected wire, solid core, max. [remote alert]	1.5 mm <sup>2</sup>		

**Rated data UL**

Category	Typ 2	$I_{max}$	50 kA
$I_n$	20 kA	MCOV	150 Vac
SCCR	200 kA	Test Voltage 39.1 (UL 1449)	240 V
UL certificate	E-File 354261 Type 2 by UL1449 Ed.3	VPR	1.2 kV

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**Classifications**

ETIM 3.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01		

**Approvals**

Approvals



ROHS Conform

**Downloads**

Declaration of Conformity	<a href="#">K481_05_12.pdf</a>
EPLAN	<a href="#">1348350000.ema</a>

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**Drawings**

**Electric symbol**

