

Type 1 surge protection device - SYS-SET/3+1/T1/690 - 2880338

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Surge protection combination type 1 for 500 V AC and 690 V AC in an IT system (without neutral conductor)

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356048804

Technical data

Dimensions

Height	155 mm
Width	195.5 mm
Depth	80.5 mm
Horizontal pitch	11 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

General

Housing material	PA
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	IEC 60664-1
	DIN VDE 0110-1
Overvoltage category	III
Degree of pollution	2
Mounting type	DIN rail: 35 mm
Direction of action	3L-PE

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Protective circuit

IEC test classification	I
EN type	T1
Maximum continuous operating voltage U_C	750 V AC
Maximum continuous operating voltage U_C (L-PE)	750 V AC
Nominal frequency f_N	50 Hz (60 Hz)
Residual current I_{PE}	≤ 0.1 mA
Nominal discharge current I_n (8/20) μ s	50 kA
Nominal discharge current I_n (8/20) μ s (L-PE)	50 kA
100 % lightning impulse sparkover voltage (1.2/50) μ s	≤ 3.5 kV
Voltage protection level U_p (L-PE)	≤ 5 kV
Response time (L-PE)	≤ 100 ns
Max. backup fuse with branch wiring	250 A (gL)
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	50 kA (effective)

Connection, protective circuit

Connection method	Screw terminal block
Connection method IN	Biconnect screw terminal block
Connection method OUT	Biconnect screw terminal block
Connection technology	Biconnect terminal block
Screw thread	M6
Tightening torque	8 Nm
Stripping length	19 mm
Conductor cross section flexible min.	16 mm ²
Conductor cross section flexible max.	35 mm ²
Conductor cross section solid min.	10 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1

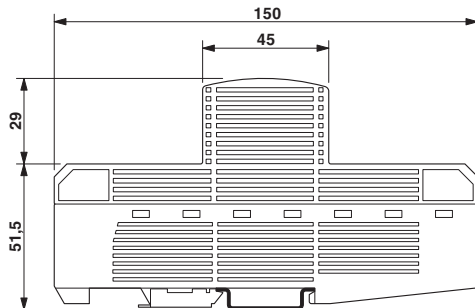
Standards and Regulations

Standards/regulations	IEC 61643-1
	EN 61643-11

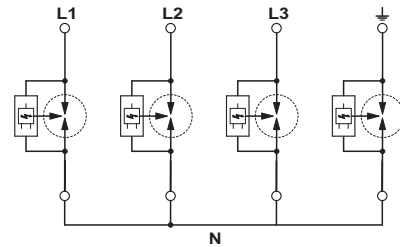
Drawings

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Dimensional drawing



Circuit diagram



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