

2880341

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Surge voltage protection combination type 2 for 690 V AC in a TN-C system



Commercial data

Item number	2880341
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	CL1222
Catalog page	Page 47 (TT-2011)
GTIN	4046356048811
Weight per piece (including packing)	404.4 g
Weight per piece (excluding packing)	404.4 g
Customs tariff number	85363030
Country of origin	DE

SYS-SET/3/T2/690 - Type 2 surge protection device



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Technical data

Product properties

Product type	Surge arrester
IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
	IT
Type	DIN rail module, two-section, divisible
Surge protection fault message	Optical, remote indicator contact

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	400 V AC (690 V AC)
	500 V AC (3/PE-IT)

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact
Maximum operating voltage U_{max} AC	250 V AC
Maximum operating voltage U_{max} DC	125 V DC
Max. operating current I_{max}	1 A AC (ohmic)
	200 mA DC (ohmic)
	1 A AC (inductive)
	30 mA DC (inductive)

Connection data

Connection method	Screw terminal block
Screw thread	M5
Tightening torque, min	4.5 Nm
Stripping length	14.5 mm
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	25 mm ²
Conductor cross section, rigid min.	0.5 mm ²
Conductor cross section, rigid max.	35 mm ²

Remote fault indicator contact

Connection method	Screw connection
Screw thread	M2
Tightening torque, min	0.25 Nm

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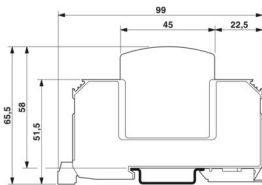


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Stripping length	7 mm
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	0.14 mm ²
Conductor cross section, rigid min.	1.5 mm ²
Conductor cross section, rigid max.	0.14 mm ²

Dimensions

Dimensional drawing	
Width	53 mm
Height	102.8 mm
Depth	65.5 mm
Horizontal pitch	3 Div.

Material specifications

Flammability rating according to UL 94	V0
Housing material	PA

Protective circuit

Direction of action	3L-PEN
	3L-PE
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	600 V AC
Maximum continuous operating voltage U_C (L-PEN)	600 V AC
Residual current I_{PE}	≤ 0.25 mA
Standby power consumption P_C	≤ 600.00 mVA
Nominal discharge current I_n (8/20) μ s (L-PEN)	15 kA
	45 kA (all channels)
Maximum discharge current I_{max} (8/20) μ s (L-PEN)	30 kA
Voltage protection level U_p (L-PEN)	≤ 2.7 kV
Response time t_A (L-PEN)	≤ 25 ns
Total surge current (8/20) μ s	45 kA
Max. backup fuse with branch wiring	125 A (gL/gG)

Environmental and real-life conditions

Ambient conditions

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

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Standards and regulations

Air clearances and creepage distances

Standards/regulations	IEC 60664-1 / DIN VDE 0110-1
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Standards

Standards/regulations	IEC 61643-1
	DIN EN 61643-11
	DIN EN 61643-11/A11
Standards/specifications	IEC 61643-1
Note	2005
Standards/specifications	DIN EN 61643-11
Note	2002
Standards/specifications	DIN EN 61643-11/A11
Note	2007

Mounting

Mounting type	DIN rail: 35 mm
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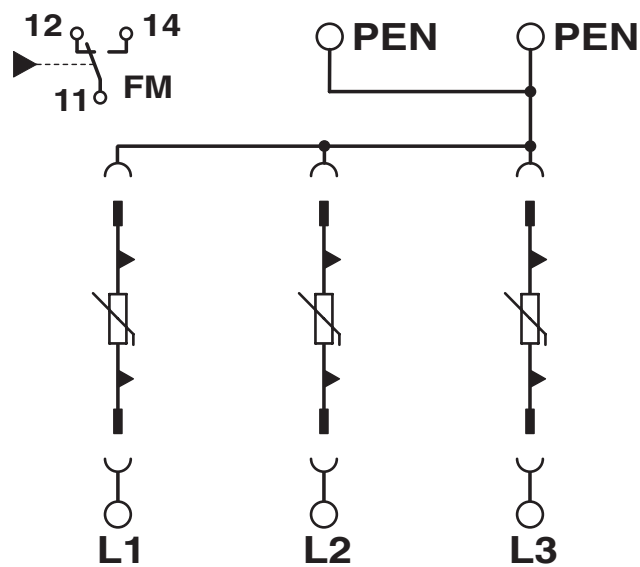


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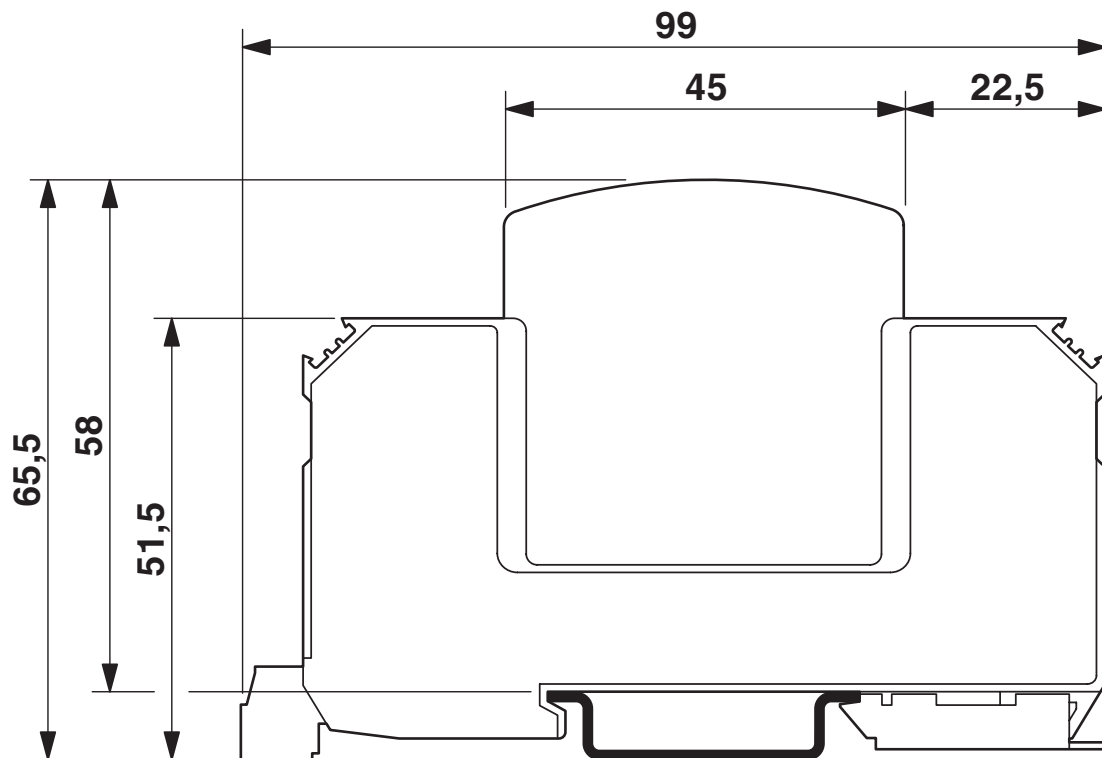
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Drawings

Circuit diagram



Dimensional drawing



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