Extract from the online catalog

SYS-SET/3/T2/690

Order No.: 2880341

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

Commercial data	
GTIN (EAN)	4 046356 048811
sales group	J002
Pack	1 pcs.
Customs tariff	85363030
Catalog page information	Page 45 (TT-2009)

Product notes

WEEE/RoHS-compliant since: 06/02/2006

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Technical data

Standards

Housing material	PA
Inflammability class acc. to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1: 1992-10
	DIN VDE 0110-1

Surge voltage category	III
Pollution degree	2
Total surge current (8/20) µs	45 kA
Degree of protection	IP20
Mounting type	DIN rail: 35 mm
Ambient temperature (operation)	-40 °C ... 80 °C
Message: Surge protection fault	Optical, remote indicator contact
Direction of action	3L-PEN
Width	53.00 mm
Height	65.50 mm
Length	102.80 mm
Pitch unit	3 Div.

Protective circuit

IEC category	II
	T2
EN type	T2
Nominal voltage U_N	400 V AC (690 V AC)
	500 V AC (3/PE-IT)
Arrester rated voltage U_C	600 V AC
Arrester rated voltage U_C (L-PEN)	600 V AC
U_T (TOV-proof)	750 V (5 s)
Nominal frequency f_N	50 Hz (60 Hz)
Ground conductor current I_{PE}	≤ 0.25 mA
Standby power consumption P_C	≤ 600 mVA
Max. discharge surge current Imax (8/20) µs maximum (L-PEN)	30 kA
Nominal discharge surge current I_n (8/20) µs (L-PEN)	15 kA
	45 kA (all channels)
Protection level U_P (L-PEN)	≤ 2.7 kV
Residual voltage (L-PEN)	≤ 2.8 kV
	≤ 2.3 kV (at 5 kA)
Clamping voltage SVR (L-PEN)	≤ 2 kV (6 kV/500 A)
Response time (L-N)	≤ 25 ns
Max. required backup fuse with branch wiring	125 A (gL/gG)

Short-circuit resistance I_P with max. backup fuse (effective)	25 kA

Connection, protective circuit

Connection method	Screw terminal block
Connection type IN	Biconnect screw terminal block
Connection type OUT	Biconnect screw terminal block
Connection method	Biconnect terminal block
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	14.5 mm
Conductor cross section stranded min.	0.5 mm²
Conductor cross section stranded max.	25 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	35 mm²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	2

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section stranded min.	1.5 mm²
Conductor cross section stranded max.	0.14 mm²
Conductor cross section solid min.	1.5 mm²
Conductor cross section solid max.	0.14 mm²
Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
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 (inductive)
	1 A AC (ohmic)
	30 mA DC (inductive)
	200 mA DC (ohmic)

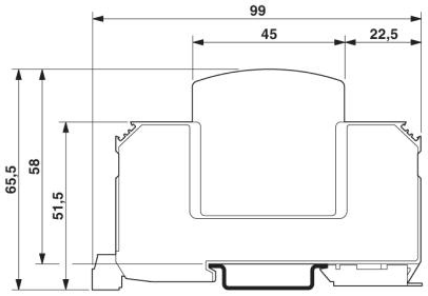
Standards	
Standards/regulations	IEC 61643-1 2005
	DIN EN 61643-11 2002
	DIN EN 61643-11/A11 2007

Certificates / Approvals

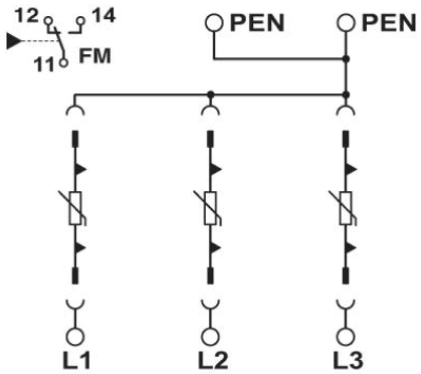
Certification CUL, GOST, UL

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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