TTC-6-MOV-D-120AC-UT-I - Surge protection device

1109673

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Medium surge protection with integrated status indicator for one 2-wire floating signal circuit. Can be used in safety-related circuits up to SIL 3.

Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1109673
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL23
Product key	CL2264
GTIN	4063151022372
Weight per piece (including packing)	28.2 g

Weight per piece (excluding packing)	23.648 g
Customs tariff number	85363010
Country of origin	DE

Technical data

Product properties

Product type	Surge protection for MCR technology
Product family	TERMITRAB complete
IEC test classification	C1
	C2
	C3
Type	DIN rail module, one-piece
Wire pairs per module	1

Insulation characteristics

Overvoltage category	III
Pollution degree	2

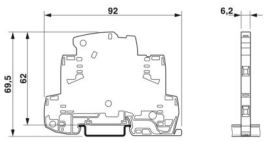
Electrical properties

Nominal voltage U_N	120 V AC

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	6.2 mm
Height	92 mm
Depth	69.5 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
Insulating material	PBT
Housing material	PBT

Mechanical properties

Mechanical data

Open side panel	Yes

Protective circuit

Direction of action	Line-Line
Nominal voltage U_N	120 V AC
Maximum continuous operating voltage U_C	150 V DC
	150 V AC
Rated current	10 A (60 °C)
Operating effective current I_C at U_C	≤ 100 µA
Protective conductor current I_{PE}	≤ 100 µA
Nominal discharge current I_n (8/20) µs (line-line)	2.5 kA
Voltage protection level U_p (line-line)	≤ 200 V (C1 - 800 A)
	≤ 500 V (C2 - 5 kV)
	≤ 380 V (C3 - 25 A)
	≤ 380 V (C3 - 35 A)
Response time t_A (line-line)	≤ 25 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ω system	typ. 1 MHz
Capacity (Core-Core)	5 nF
Resistance per path	≤ 100 mΩ
Surge protection fault message	optical
Impulse durability (line-line)	C1 - 800 A
	C2 - 2,5 kA
	C3 - 35 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (with end cover)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012

EN 61643-21

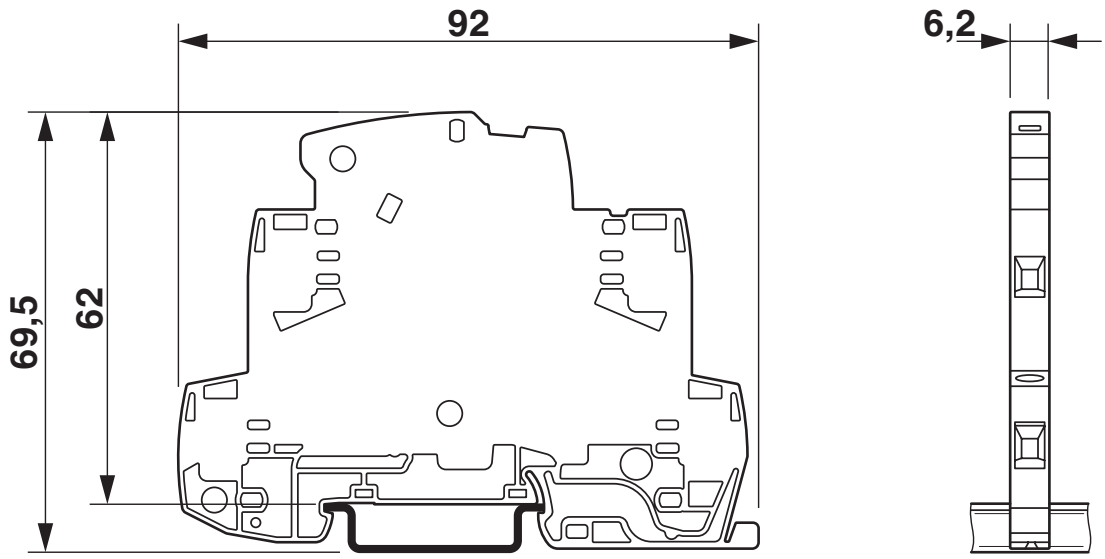
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

Mounting

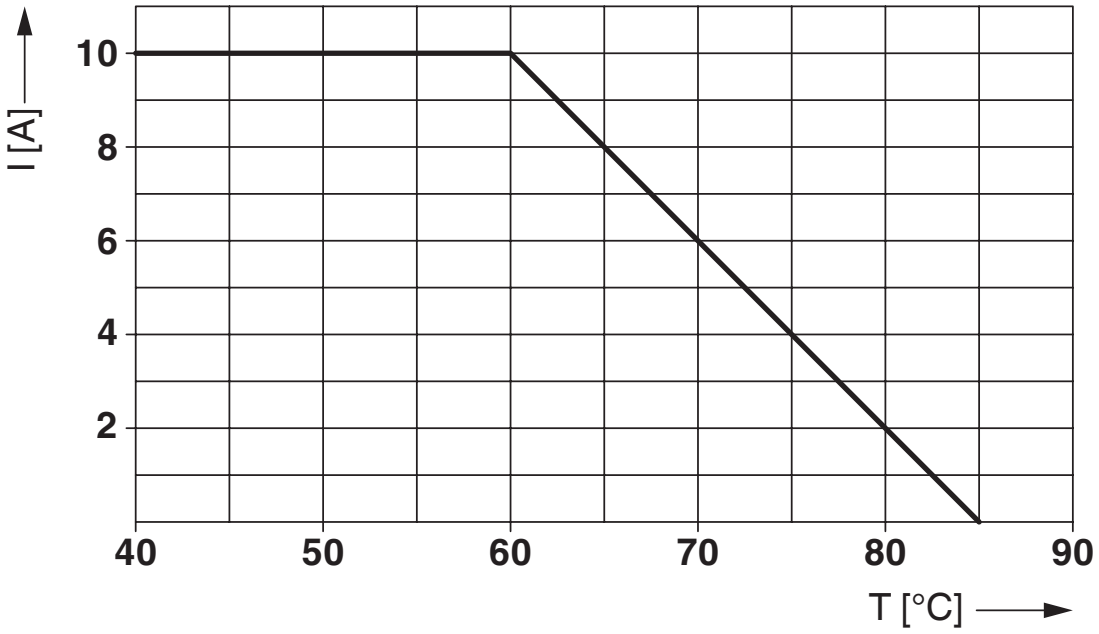
Mounting type	DIN rail: 35 mm

Drawings

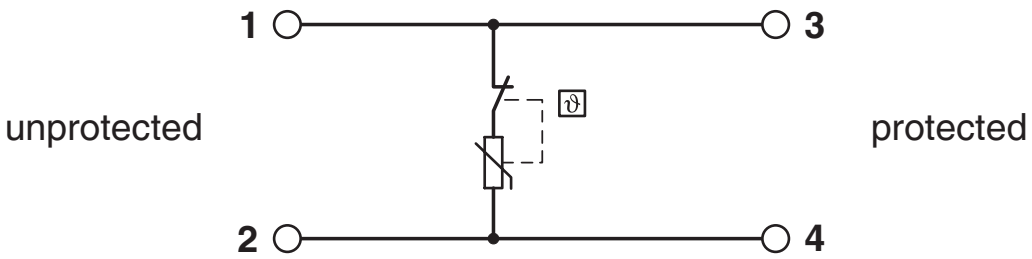
Dimensional drawing



Diagram



Circuit diagram



Approvals

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CSA
Approval ID: 70136717

DNV GL
Approval ID: TAE000027G

UL Listed
Approval ID: FILE E 138168

CSAus
Approval ID: 70136717

UAE-RoHS
Approval ID: 22-06-16192

Classifications

ECLASS

ECLASS-13.0	27171501
ECLASS-15.0	27171501

ETIM

ETIM 10.0	EC001466

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	41.57 kg CO2e

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