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Modular terminal block with two-stage surge protection for two signal wires with common reference potential, disconnect knife on both signal paths, separate ground connection, nominal voltage: 24 V DC

Why buy this product

- ✓ Versions with and without disconnect knife
- ☑ Protection of two signal wires with common reference potential
- Multi-stage modular terminal blocks with screw connection technology
- ☑ Disconnection of signal circuits by disconnect knife

















Key Commercial Data

Packing unit	14 STK
GTIN	4 046356 182850
GTIN	4046356182850

Technical data

Dimensions

Height	94.8 mm
Width	6.2 mm
Depth	69.1 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Altitude	≤ 2000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0



Technical data

General

Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Туре	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Direction of action	Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
Maximum continuous voltage U _C	30 V DC
	21 V AC
Rated current	300 mA (40 °C)
Operating effective current I_{C} at U_{C}	≤ 5 μA
Residual current I _{PE}	≤ 10 µA
Nominal discharge current I _n (8/20) µs (line-line)	5 kA
Nominal discharge current I _n (8/20) µs (line-earth)	5 kA
Pulse discharge current l _{imp} (10/350) μs (line-earth)	500 A
Total discharge current I _{total} (8/20) μs	10 kA
Nominal pulse current Ian (10/1000) µs (line-earth)	30 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 45 V
Residual voltage at I _n (line-earth)	≤ 45 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 50 V
Voltage protection level U _p (line-earth)	≤ 55 V (C1 - 500 V / 250 A)
	≤ 85 V (C2 - 10 kV / 5 kA)
Response time t _A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.5 dB (≤ 1.5 MHz / 50 Ω)
	typ. 0.2 dB (≤ 400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 2.5 MHz
Capacity (line-earth)	< 2.5 nF
Resistance in series	4.7 Ω ±20 %
Surge protection fault message	none
Max. required back-up fuse	315 mA (T)
Impulse durability (line-earth)	C1 - 500 V / 250 A
	C2 - 10 kV/5 kA
	D1 - 500 A



Technical data

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 14

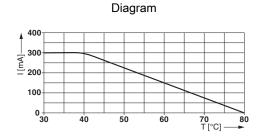
Standards and Regulations

Standards/specifications	EN 61643-21 2001
	IEC 61643-21 2000

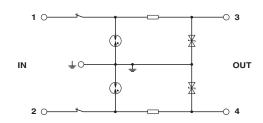
Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

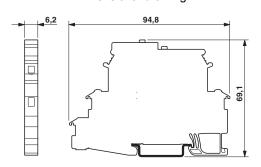
Drawings



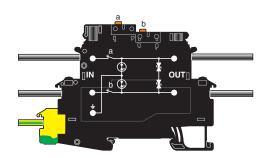
Circuit diagram



Dimensional drawing

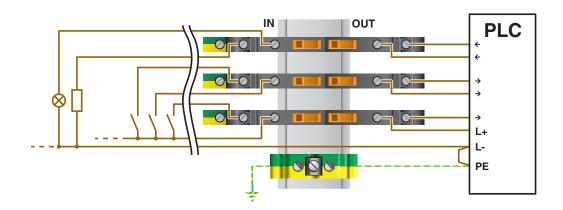


Schematic diagram

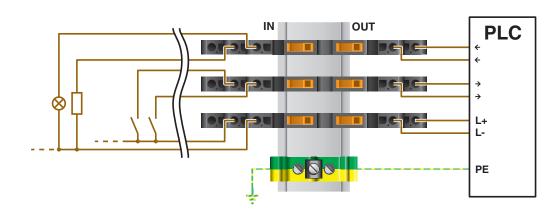




Application drawing



Application drawing



Approvals

Approvals

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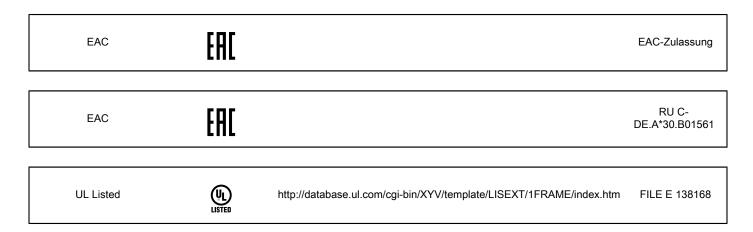
EAC / EAC / UL Listed

Ex Approvals

Approval details



Approvals



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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany Tel. +49 5235 300

Fax +49 5235 3 41200

http://www.phoenixcontact.com