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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

Your advantages

- ☑ 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 pc
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 Ι _n (8/20) μs (line-line)	5 kA		
Nominal discharge current Ι _n (8/20) μs (line-earth)	5 kA		
Pulse discharge current I _{imp} (10/350) μs (line-earth)	500 A		
Total discharge current I _{total} (8/20) μs	10 kA		
Nominal pulse current lan (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 mm ² 2.5 mm ²
Conductor cross section solid	0.2 mm ² 4 mm ²
Conductor cross section AWG	24 14

Standards and Regulations

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

Environmental Product Compliance

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

Approvals

Approvals

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UL Listed / EAC / EAC

Ex Approvals

Approval details

UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
EAC	ERC		EAC-Zulassung



Approvals

EAC RU C-DE.A*30.B01561

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