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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Modular terminal block with two-stage surge protection for a floating Ex-i signal circuit, disconnect knife on both signal paths, separate PE connection, nominal voltage: 24 V DC

Product Features

- ✓ Versions with and without disconnect knife
- ☑ To terminate a row of TERMITRAB TT... devices, covers are available in the corresponding colors
- Multi-stage modular terminal blocks with screw connection technology
- ☑ Protection of a floating double wire in intrinsically safe circuits
- ☑ Use in Ex protection zones 1 and 2
- ☑ Disconnection of signal circuits by disconnect knife









Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	32.857 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	92 mm
Width	6.2 mm
Depth	66.45 mm

Ambient conditions



Technical data

Ambient conditions

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

General

Housing material	PA 6.6
Inflammability class according to UL 94	V-2
Color	blue
Standards for air and creepage distances	EN 50020
	VDE 0110-1
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-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
	17 V AC
Maximum continuous operating voltage U _C	30 V DC
	21 V AC
Maximum continuous voltage UC (wire-wire)	30 V DC
	21 V AC
Nominal current I _N	250 mA (T _A < 40 °C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	≤ 1 µA
Nominal discharge current I _n (8/20) µs (Core-Core)	5 kA
Nominal discharge current I _n (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Total surge current (10/350) µs	1 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Core)	5 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Earth)	5 kA (per path)
Nominal pulse current lan (10/1000) µs (Core-Core)	100 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A (per path)
Impulse discharge current (10/350)#µs, peak value I _{imp}	500 A (per path)
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 44 V



Technical data

Protective circuit

Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 1.5 kV
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 44 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 1.5 kV
Residual voltage at I _n , (conductor-conductor)	≤ 40 V
Residual voltage at I _n , (conductor-ground)	≤ 110 V
Voltage protection level U _P (Core-Core)	≤ 70 V (C2 (10 kV/5 kA))
Voltage protection level U _P (Core-Earth)	≤ 1.5 kV (C2 (10 kV/5 kA))
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	1 dB (≤ 1 MHz / 50 Ω)
	$0.3~\mathrm{dB}~(\leq 200~\mathrm{kHz}~/~150~\Omega)$
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2 MHz
Resistance in series	4.7 Ω ±10 %
	4.7 Ω
Surge protection fault message	None
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 - 10 kV / 5 kA
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 - 10 kV / 5 kA
	D1 (500 A)

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14

Standards and Regulations

Standards/regulations	IEC 61643-21
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General

Maximum inner capacitance C _i	2 nF



Technical data

General

Maximum inner inductance L _i	1 μΗ
Maximum inner time factor (R _i /L _i)	0.1 µs
Max. input current I _i	250 mA
Max. input voltage U _i	30 V
Maximum input power Pi	0.75 W
Insulation voltage to ground	500 V 10 %

Conformity / approvals

ATEX	# II 1G Ex ia IIC T4T6 Ga
	# II 1D Ex ia IIIC T135°CT85°C Da
IECEx	Ex ia IIC T4T6 Ga
	Ex ia IIIC T135 °CT85 °C Da

Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

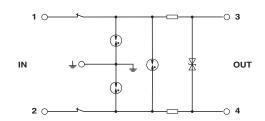
UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Drawings



Circuit diagram



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