

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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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Spring-cage modular terminal block with integrated three-stage surge protection for a floating Ex-i signal circuit, separate PE connection, nominal voltage: 24 V DC, for mounting on NS 35

Product Features

- ☑ Disconnection of signal circuits by disconnect knife
- ☑ Can be used in Ex protection zones 1 and 2









Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	28.48 GRM
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

Height	100 mm
Width	6.2 mm
Depth	63.5 mm

Ambient conditions

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



Technical data

General

Housing material	PA 6.6
Inflammability class according to UL 94	V-2
Color	blue
Standards for air and creepage distances	EN 60079-11
Mounting type	DIN rail: 35 mm
Туре	Double-level terminal block with disconnect knife
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	24 V DC
Maximum continuous operating voltage U _C	30 V DC
Maximum continuous voltage U _C (wire-ground)	30 V DC
Nominal current I _N	200 mA (T _A < 40 °C)
Operating effective current I _C at U _C	≤ 10 µA
Residual current I _{PE}	≤ 2 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	2 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Earth)	5 kA
	5 kA
Nominal pulse current lan (10/1000) µs (Core-Core)	100 A
Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value I _{imp}	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 40 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 1.5 kV
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 40 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 with lan (10/1000)µs (conductor-conductor)	≤ 45 V
Voltage protection level U _P (Core-Core)	≤ 60 V (C2 -5 kA)
Voltage protection level U _P (Core-Earth)	≤ 1.5 kV (C2 -5 kA)
Response time tA (Core-Core)	≤ 1 ns



Technical data

Protective circuit

Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 1 dB (≤ 400 kHz/50 Ω)
	typ. 0.4 dB (≤ 150 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 3 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 1 MHz
Resistance in series	6.6 Ω ±20 % (per path)
	6.6 Ω
Surge protection fault message	None
Max. required back-up fuse	200 mA (e.g. T in acc. with IEC 127-2/III)
Surge current resistance (conductor-conductor)	C2 - 10 kV/5 kA
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 1kA
Alternating current carrying capacity (conductor-ground)	2.5 A (1 s)

Connection data

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section stranded min.	0.5 mm²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/regulations	120 01043-21

General

Maximum inner capacitance C _i	4 nF
Maximum inner inductance L _i	1 μΗ
Max. input current I _i	200 mA (T4/≤ 85°C)
	200 mA (T5/≤ 55°C)
	200 mA (T6 / ≤ 40 °C)
Max. input voltage U _i	30 V
Maximum input power Pi	1.6 W
Insulation voltage to ground	500 V ±10 %

Conformity / approvals



Technical data

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

Approvals

Approvals

Approvals

UL Listed / GL



Approvals

Ex Approvals

IECEx / ATEX / INMETRO

Approvals submitted

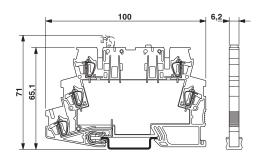
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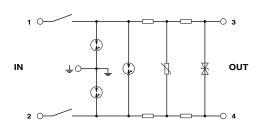
GL

Drawings

Dimensioned drawing

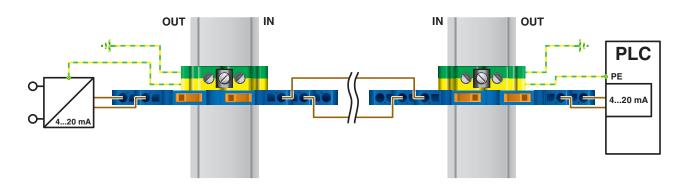


Circuit diagram

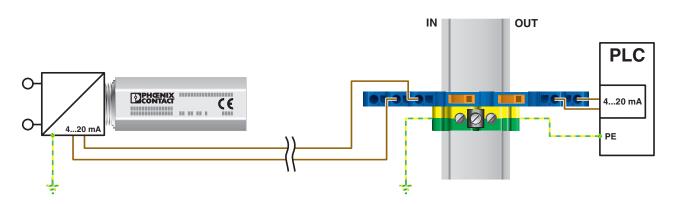




Application drawing



Application drawing



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