

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Surge protection in the IP67 screw-on module for measuring sensors in intrinsically safe circuits, direct mounting with M20 x 1.5 outer thread, cable gland for the signal cable, two-stage protective circuit. HART-compatible.

Product Features

Arresters in hexagonal pipe with various outer threads







Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	380.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	34 mm
Width	34 mm
Depth	137 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 50 °C
Degree of protection	IP67

General

Housing material	Zinc die-cast
Inflammability class according to UL 94	V-0
Color	silver



Technical data

General

Standards for air and creepage distances	IEC 60664-1
	EN 60079-0
	EN 60079-11
Mounting type	ct screw connection
Туре	Screw-in module
Number of positions	3
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
	21 V AC
Maximum continuous voltage UC (wire-wire)	30 V DC
	21 V AC
Nominal current I _N	350 mA (50 °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)	10 kA
Nominal discharge current I _n (8/20) µs (Core-Earth)	10 kA
Nominal discharge current I _n (8/20) µs (Shield-Earth)	10 kA (optional)
Max. discharge current I _{max} (8/20) μs maximum (Core-Core)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Earth)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (Shield-Earth)	10 kA
Nominal pulse current lan (10/1000) µs (Core-Core)	30 A
Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
Nominal pulse current lan (10/1000) µs (Shield-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value l _{imp}	1 kA
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 50 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 1.4 kV (Direct grounding)
Output voltage limitation at 1 kV/µs (Shield-Earth) spike	≤ 600 V (optional)
Output voltage limitation at 1 kV/µs (Core-Core) static	≤ 50 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 1.4 kV (Direct grounding)
Residual voltage at In, (conductor-conductor)	≤ 50 V



Technical data

Protective circuit

Residual voltage with lan (10/1000)µs (conductor-conductor)	≤ 50 V
Voltage protection level U _P (Core-Core)	≤ 55 V (C2 -5 kA)
	≤ 50 V (C1 - 250 A)
	≤ 50 V (C3 - 25 A)
	≤ 80 V (D1 - 1 kA)
Voltage protection level U _P (Core-Earth)	≤ 1.4 kV (C2 -5 kA, direct grounding)
	≤ 1.4 kV (C1 - 500 A)
	≤ 1.4 kV (C3 - 100 A)
	≤ 1.4 kV (D1 - 1 kA)
Voltage protection level U _P (Shield-Earth)	≤ 650 V (C2 -5 kA optional)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Response time tA (Shield-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. $0.5 \text{ dB} \ (\leq 1 \text{ MHz} \ / \ 50 \ \Omega)$
	typ. 0.2 dB (Up to 400 kHz, 150 Ω)
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. 2.5 MHz
Resistance in series	2.2 Ω ±10 %
Surge protection fault message	None
Surge current resistance (conductor-conductor)	C2 - 10 kV/5 kA
	D1 - 1 kA
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 1 kA
Surge current resistance (shield-ground)	C2 (10 kV/5 kA)
	D1 (1 kA)
Alternating current carrying capacity (conductor-ground)	10 A - 1 s
Alternating current carrying capacity (shield-ground)	10 A - 1 s

Connection data

Connection name	Input/output
Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Connection line
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	6 mm
Conductor cross section stranded min.	0.14 mm²

10/22/2014 Page 3 / 5



Technical data

Connection data

Conductor cross section stranded max.	1.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	16

Standards and Regulations

Standards/regulations	DIN EN 61643-21
	EN 60079-0
	EN 60079-11
	EN 60079-26

General

Maximum inner capacitance C _i	2 nF
Maximum inner inductance L _i	1 μH
Max. input current I _i	350 mA (T4,T5,T6/≤ 50°C)
Max. input voltage U _i	30 V
Maximum input power Pi	3 W

Conformity / approvals

ATEX	# II 1G Ex ia IIC T4T6 Ga
IECEx	Ex ia IIC T4T6 Ga

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



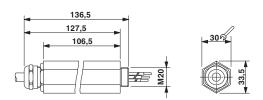
Classifications

UNSPSC

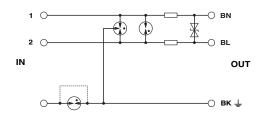
UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Drawings

Dimensioned drawing



Circuit diagram



Application drawing

