

2882569

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Surge protection in the IP67 screw-on module for measuring sensors, direct mounting with 1/2" NPT outer thread, cable gland for the signal cable, two-stage protective circuit. HART-compatible.

Your advantages

- · Easiest field mounting with standardized thread
- · Versatile in use with universal protective circuit
- · Use under extreme ambient conditions with robust design

Commercial data

Item number	2882569
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL02
Product key	CL2231
Catalog page	Page 125 (C-4-2019)
GTIN	4046356091657
Weight per piece (including packing)	424.9 g
Weight per piece (excluding packing)	363.84 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Notes

General	When the bridge is disconnected, the shield connection is indirectly connected to the housing or reference potential.
oduct properties	
IEC test classification	C1
	C2
	C3
	D1
Туре	Screw-in module
Product type	Surge protection for MCR technology
Product family	SURGETRAB
Number of positions	3
Surge protection fault message	none
Wire pairs per module	1
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U _N	24 V DC
Training Tallage and	220

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16

Dimensions

Dimensional drawing	148 128 199,5 2 2 2 30 30 30 30 30 30 30 30 30 30 30 30 30
Width	33.5 mm
Height	33.5 mm
Depth	148 mm

Material specifications

Color	Steel / stainless steel
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	black (RAL 9005)
Housing material	Zinc die-cast, surface bronzed and nickel-plated
echanical properties	
conamoai properties	
Mechanical data	
Open side panel	No
rotective circuit	
Direction of action	Line-Line & Line-Earth Ground
Maximum continuous voltage U _C	40 V DC
	28 V AC
Rated current	450 mA (55 °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 (line-line)	10 kA
Nominal discharge current I _n (8/20) µs (line-ground)	10 kA (per path)
Nominal discharge current I _n (8/20) µs (shield-ground)	10 kA (optional)
Pulse discharge current I _{imp} (10/350) μs	1 kA
Total discharge current I _{total} (8/20) μs	20 kA
Total discharge current I _{total} (10/350) μs	2 kA
Max. discharge current I _{max} (8/20) μs maximum (line-line)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (line-earth)	10 kA (per path)
Discharge surge current I _{max} (8/20) µs maximum (shield-ground)	10 kA
Nominal pulse current lan (10/1000) µs (line-line)	23 A
Nominal pulse current lan (10/1000) µs (line-earth)	100 A
Nominal pulse current lan (10/1000) µs (shield-ground)	100 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 55 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 450 V (Direct grounding)
Output voltage limitation at 1 kV/µs (shield-ground) spike	≤ 600 V (optional)
Output voltage limitation at 1 kV/µs (line-line) static	≤ 55 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 450 V (Direct grounding)
Residual voltage at I _n (conductor-conductor)	≤ 55 V
Residual voltage with Ian (10/1000) µs (line-line)	≤ 65 V
Voltage protection level U_p (line-line)	≤ 80 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-earth)	≤ 450 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (shield-ground)	≤ 600 V (C2 - 10 kV / 5 kA)
Voltage protection level U _p static (line-line)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t _A (line-line)	≤ 1 ns
Response time t _A (line-earth)	≤ 100 ns
Response time tA (shield-ground)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB (≤ 1.5 MHz / 50 Ω)
	typ. 0.2 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ω system	typ. 6 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ω system	typ. 2 MHz



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Resistance per path	2.2 Ω ±10 %
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	D1 - 1 kA
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 1 kA
Impulse durability (shield-ground)	C2 - 10 kV/5 kA
	D1 - 1 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m (amsl)

Standards and regulations

Air clearances and creepage distances

Standards/regulations	IEC 60664-1 / VDE 0110-1
Standards/specifications	IEC 61643-21
Note	2002

Mounting

Mounting type	direct screw connection
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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171501	
ETIM			
	ETIM 9.0	EC001625	
UN	ISPSC		

39121600



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com