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CN-UB-70DC-6-BB - Surge protection device

2803166

https://www.phoenixcontact.com/gb/products/2803166

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Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, female/female

Your advantages

- Mounting plate enables mounting, e.g., in a control cabinet

Commercial data

Item number	2803166
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL3311
Product key	CL3311
Catalog page	Page 176 (C-4-2017)
GTIN	4046356293211
Weight per piece (including packing)	75.7 g
Weight per piece (excluding packing)	75 g
Customs tariff number	85363010
Country of origin	US

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Technical data

Notes

General

Note	To meet the discharge conditions for DC voltages, please note the following information: "The surge protective device should be used together with a transmitter unit, which shuts down in the event of a short-circuit."

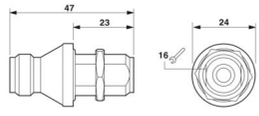
Product properties

Product type	Surge protection for transceiver systems
IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Type	Attachment plug
Surge protection fault message	none

Connection data

Connection method	N connector 50 Ω

Dimensions

Dimensional drawing	
Width	24 mm
Height	24 mm
Depth	47 mm

Material specifications

Color	Nickel
Seal material	Silicon
Housing material	Brass (CuZn)
Housing surface material	Nickel
Inner conductor material	BeCu
Inner conductor surface material	Gold
Insulation body material	PTFE

Mechanical properties

Mechanical data

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Open side panel	No

Protective circuit

Direction of action	Line-Shield/Earth Ground
Maximum continuous voltage U_C	70 V DC
	50 V AC
Maximum continuous voltage U_C (line-earth)	70 V DC
	50 V AC
Rated current	10 A
Operating effective current I_C at U_C	≤ 1 µA
Nominal discharge current I_n (8/20) µs	5 kA
Nominal discharge current I_n (8/20) µs (line-ground)	5 kA
Nominal discharge current I_n (8/20) µs (line-shield)	5 kA
Pulse discharge current I_{imp} (10/350) µs	1 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	1 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	10 kA
Max. discharge current I_{max} (8/20) µs maximum (line-shield)	10 kA
Nominal pulse current Ian (10/1000) µs (line-shield)	100 A
Impulse discharge current (10/350) µs, peak value I_{imp}	1 kA
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 650 V
Output voltage limitation at 1 kV/µs (line-shield) spike	≤ 650 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 650 V
Output voltage limitation at 1 kV/µs (line-shield) static	≤ 650 V
Voltage protection level U_p (line-earth)	≤ 800 V (C2 - 4 kV / 2 kA)
	≤ 1 kV (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	≤ 800 V (C2 - 4 kV / 2 kA)
	≤ 1 kV (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	≤ 100 ns
Response time tA (line-shield)	≤ 100 ns
Input attenuation aE, asym.	0.1 dB (≤ 6 GHz)
Cut-off frequency fg (3 dB), asym. (shield) in 50 Ω system	> 6 GHz
Frequency range	0 Hz ... 6 GHz
Voltage standing wave ratio VSWR in a 50 Ω system	typ. 1.15 (≤ 6 GHz)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	30 W (VSWR = 1.15)
Capacity (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Surge protection fault message	none
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 1 kA
Impulse durability (line-shield)	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 1 kA
Alternating current carrying capacity (line-shield)	5 A - 1 s

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP68
Ambient temperature (operation)	-40 °C ... 90 °C

Standards and regulations

VDE requirement class	C2
	C3
	D1

Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1

Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21
Standards/specifications	IEC 61643-21
Note	2000

Mounting

Mounting type	Connection-specific intermediate plugging
Assembly note	Outdoors and indoors

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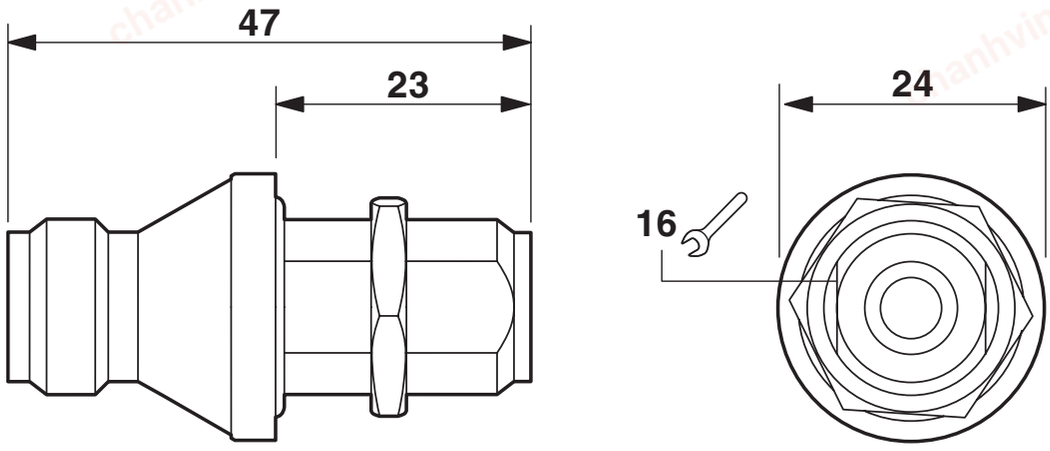
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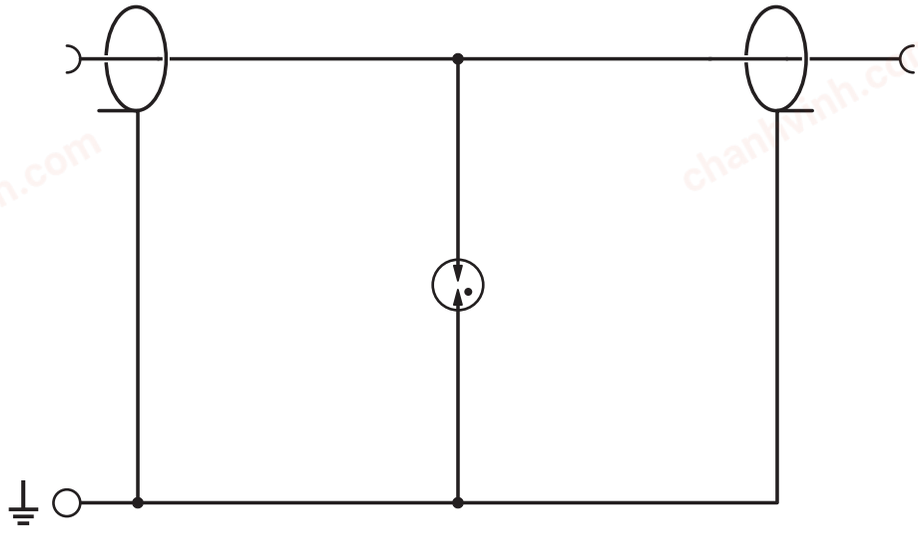
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2803166

EAC
Approval ID: EAC-Zulassung

EAC
Approval ID: RU C-DE.*09.B.00169

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171504

ETIM

ETIM 9.0	EC000943

UNSPSC

UNSPSC 21.0	39121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

CN-UB/MP - Mounting panel

2818135

https://www.phoenixcontact.com/gb/products/2818135

Tongue for attaching the CN-UB..., to housing panels, for example.



CN-UB/MP-90DEG-50 - Mounting panel

2803137

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Angled bracket for individually fixing CN-UB... to housing panels, for example.



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CN-UB/MP - Mounting panel

2818135

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Tongue for attaching the CN-UB..., to housing panels, for example.



SZS 0,4X2,5 VDE - Screwdriver

1205037

https://www.phoenixcontact.com/gb/products/1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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