

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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 293211
GTIN	4046356293211
Weight per Piece (excluding packing)	80.000 g
Custom tariff number	85363010
Country of origin	United States

### Technical data

#### Dimensions

Height	24 mm
Width	24 mm
Depth	47 mm

#### Ambient conditions

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

#### General

Housing material	Brass (CuZn)
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## Technical data

### General

Color	nickel
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

### Additional descriptions

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."
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### Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
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 $U_C$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-earth)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (line-shield)	5 kA
Total discharge current $I_{total}$ (8/20) $\mu s$	5 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-earth)	10 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (line-shield)	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (line-shield)	100 A
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	1 kA
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-shield) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-earth) static	$\leq 650 V$
Output voltage limitation at 1 kV/ $\mu s$ (line-shield) static	$\leq 650 V$
Voltage protection level $U_p$ (line-earth)	$\leq 800 V$ (C2 - 4 kV / 2 kA)

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### Technical data

#### Protective circuit

	$\leq 1 \text{ kV}$ (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-shield)	$\leq 800 \text{ V}$ (C2 - 4 kV / 2 kA)
	$\leq 1 \text{ kV}$ (C2 - 10 kV / 5 kA)
Response time $t_A$ (line-earth)	$\leq 100 \text{ ns}$
Response time $t_A$ (line-shield)	$\leq 100 \text{ ns}$
Input attenuation aE, asym.	0.1 dB ( $\leq 6 \text{ GHz}$ )
Cut-off frequency $f_g$ (3 dB), asym. (shield) in 50 Ohm system	$> 6 \text{ GHz}$
Frequency range	0 Hz ... 6 GHz
Standing wave ratio SWR in a 50 $\Omega$ system	typ. 1.15 ( $\leq 6 \text{ GHz}$ )
Permissible HF power $P_{\max}$ at VSWR = xx (50 ohm system)	30 W (VSWR = 1.15)
Capacity (line-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

#### Connection data

Connection method	N connector 50 $\Omega$
Connection method IN	N connector, female
Connection method OUT	N connector, female

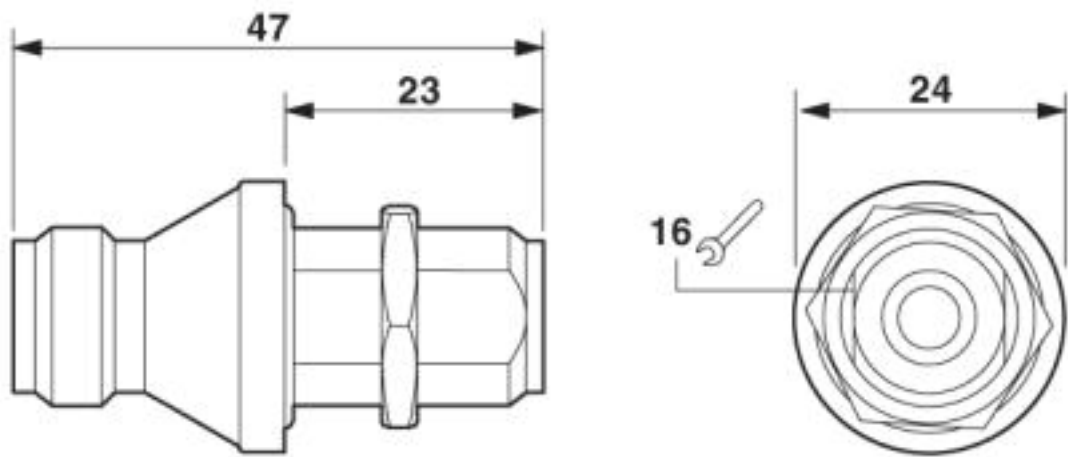
#### Standards and Regulations

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

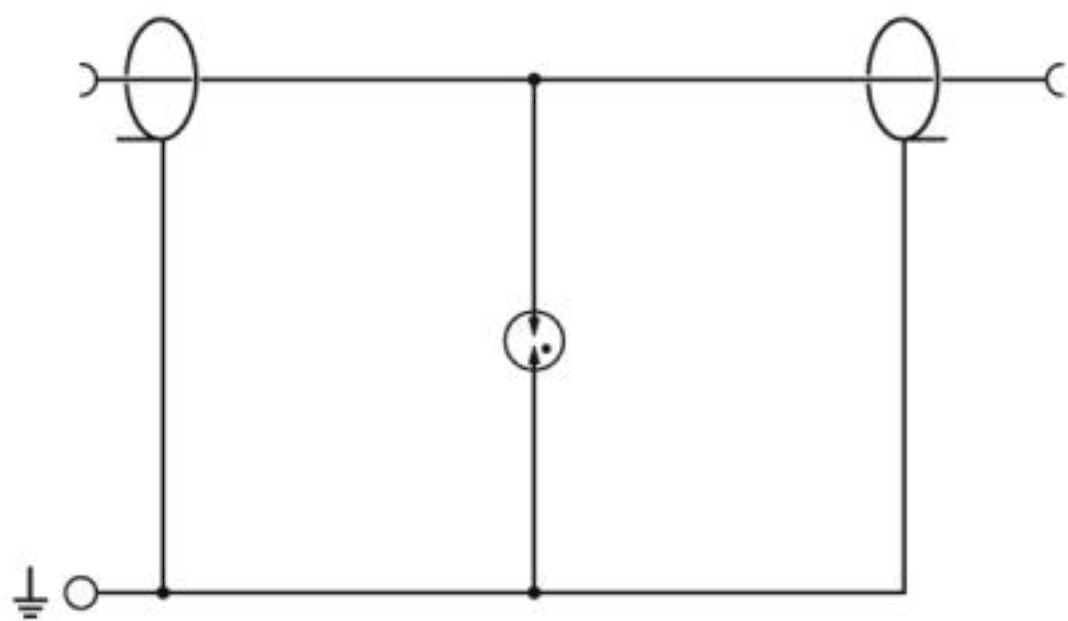
### Drawings

Surge protection device - CN-UB-70DC-6-BB - 2803166

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800

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### Classifications

#### eCl@ss

eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

#### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

#### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

### Approvals

#### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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#### Approval details

## Surge protection device - CN-UB-70DC-6-BB - 2803166

### Approvals

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B01561
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### Accessories

#### Accessories

#### Assembly adapter

Mounting plate - CN-UB/MP - 2818135



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

Mounting plate - CN-UB/MP-90DEG-50 - 2803137



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

### Additional products

Mounting plate - CN-UB/MP - 2818135



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