

## 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

### Why buy this product

- Mounting plate enables mounting, e.g., in a control cabinet
- Gas-filled surge arrester can be replaced in case of malfunction



### Key commercial data

Packing unit	1
Minimum order quantity	50
Catalog page	Page 170 (TT-2011)
GTIN	 4 046356 293211
Custom tariff number	85363010
Country of origin	UNITED STATES

### Technical data

#### General

Housing material	Brass (CuZn)
Color	nickel
Standards for air and creepage distances	DIN VDE 0110-1
Standards for air and creepage distances	IEC 60664-1
Ambient temperature (operation)	-40 °C ... 90 °C
Mounting type	Connection-specific intermediate plugging
Design	Attachment plug
Degree of protection	IP68
Direction of action	Line-Shield/Earth Ground
Width	24 mm
Height	24 mm
Depth	47 mm

#### Protective circuit

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## Technical data

### Protective circuit

IEC category	C2
IEC category	C3
IEC category	D1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous operating voltage UC	70 V DC
Maximum continuous operating voltage UC	50 V AC
Maximum continuous voltage UC (wire-ground)	70 V DC
Maximum continuous voltage UC (wire-ground)	50 V AC
Nominal current I <sub>N</sub>	10 A
Operating effective current I <sub>C</sub> at UC	≤ 1 μA
Nominal discharge surge current I <sub>n</sub> (8/20) μs (Core-Earth)	5 kA
Nominal discharge surge current I <sub>n</sub> (8/20) μs (Core-Shield)	5 kA
Max. discharge surge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)	10 kA
Max. discharge surge current I <sub>max</sub> (8/20) μs maximum (Core-Shield)	10 kA
Nominal pulse current I <sub>an</sub> (10/1000) μs (Core-Shield)	100 A
Lightning test current (10/350) μs, peak value limp	1 kA
Output voltage limitation at 1 kV/μs (Core-Earth) spike	≤ 650 V
Output voltage limitation at 1 kV/μs (Core-Shield) spike	≤ 650 V
Output voltage limitation at 1 kV/μs (Core-Earth) static	≤ 650 V
Output voltage limitation at 1 kV/μs (Core-Shield) static	≤ 650 V
Protection level UP (Core-Earth)	≤ 800 V (C2 (4 kV/2 kA))
Protection level UP (Core-Earth)	≤ 1 kV (C2 (10 kV/5 kA))
Protection level UP (Core-Shield)	≤ 800 V (C2 (4 kV/2 kA))
Protection level UP (Core-Shield)	≤ 1 kV (C2 (10 kV/5 kA))
Response time t <sub>A</sub> (Core-Earth)	≤ 100 ns
Response time t <sub>A</sub> (Core-GND)	≤ 100 ns
Input attenuation a <sub>E</sub> , asym.	0.1 dB (6 GHz)
Cut-off frequency f <sub>g</sub> (3 dB), asym. (shield) in 50 Ohm system	> 6 GHz
Frequency range	0 Hz ... 6 GHz
Standing wave ratio SWR in a 50 Ω system	Typ. 1.15 (6 GHz)
Permissible HF power P <sub>max</sub> . at SWR=xx (50 Ohm system)	30 W (VSWR = 1.15)
Capacity (Core-Earth)	Typ. 1.5 pF
Capacity asymmetrical (shield)	Typ. 1.5 pF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (1 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Shield)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Shield)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Shield)	D1 (1 kA)

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## Technical data

### Protective circuit

Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Shield)	5 A - 1 s
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### Connection data

Connection method	N connector 50 Ω
Connection type IN	N connector, female
Connection type OUT	N connector, female

### Connection, protective circuit

Standards/regulations	IEC 61643-21
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## Classifications

### eclass

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

### 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

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Approvals

GOST

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Ex Approvals

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

### Approvals

Approvals submitted

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#### Approval details



### Accessories

Accessories

Assembly

Mounting plate - CN-UB/MP - 2818135



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

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



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

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### Additional products

Mounting plate - CN-UB/MP - 2818135



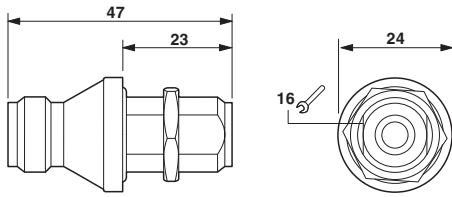
Tongue for attaching the CN-UB..., to housing panels, for example.

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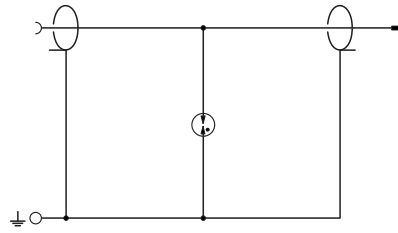
### Drawings

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

Dimensioned drawing



Circuit diagram



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