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Surge protection device - CN-UB-70DC-6-SB - 2803153

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

Why buy this product

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



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 293204
GTIN	4046356293204

Technical data

Dimensions

Height	24 mm
Width	24 mm
Depth	50 mm

Ambient conditions

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

General

Housing material	Brass (CuZn)
Color	nickel
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug

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Technical data

General

Direction of action	Line-Shield/Earth Ground
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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) μs	5 kA
Nominal discharge current I_n (8/20) μs (line-earth)	5 kA
Nominal discharge current I_n (8/20) μs (line-shield)	5 kA
Total discharge current I_{total} (8/20) μs	5 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 I_{an} (10/1000) μs (Core-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	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 650 V$
Output voltage limitation at 1 kV/ μs (line-shield) static	$\leq 650 V$
Voltage protection level U_p (line-earth)	$\leq 800 V$ (C2 - 4 kV / 2 kA)
	$\leq 1 kV$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-shield)	$\leq 800 V$ (C2 - 4 kV / 2 kA)
	$\leq 1 kV$ (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	$\leq 100 ns$
Response time t_A (line-shield)	$\leq 100 ns$
Input attenuation a_E , asym.	0.1 dB ($\leq 6 GHz$)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	$> 6 GHz$
Frequency range	0 Hz ... 6 GHz

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Technical data

Protective circuit

Standing wave ratio SWR 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 (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

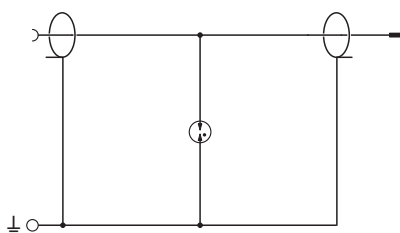
Connection method	N connector 50 Ω
Connection method IN	N connector, male
Connection method OUT	N connector, female

Standards and Regulations

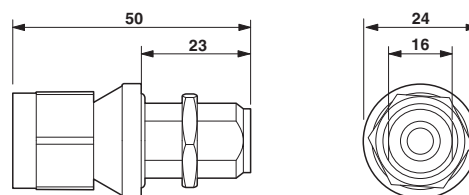
Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Drawings

Circuit diagram



Dimensional drawing



Approvals

Approvals

Approvals


EAC / EAC


Ex Approvals

Surge protection device - CN-UB-70DC-6-SB - 2803153

Approvals

Approval details

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