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Surge protection device - CN-UB-280DC-3-BB - 2801050

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Attachment plug with replaceable surge protection for coaxial signal interfaces. Connection: N connector socket/socket

Why buy this product

- For outdoor installations
- Mounting plate enables mounting, e.g., in a control cabinet
- Replaceable, gas-filled arrester
- Installed as surge protection between antenna and wireless module

Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 675727
GTIN	4046356675727

Technical data

Dimensions

Height	33.5 mm
Width	31 mm
Length	57.8 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C
Altitude	2000 m
Degree of protection	IP55
	IP55

General

Housing material	HPb59-1
Color	nickel

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Technical data

General

Standards for clearances and creepage distances	IEC 60664-1
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Number of positions	1
Direction of action	Line-Shield/Earth Ground

Protective circuit

IEC test classification	C2
	C3
	D1
Maximum continuous voltage U_c	280 V DC
Maximum continuous voltage U_c (line-earth)	280 V DC
Rated current	5 A (25 °C)
Operating effective current I_c at U_c	$\leq 1 \mu\text{A}$
Nominal discharge current I_n (8/20) μs	20 kA
Nominal discharge current I_n (8/20) μs (line-earth)	20 kA
Nominal discharge current I_n (8/20) μs (line-shield)	20 kA
Total surge current (10/350) μs	2.5 kA
Total discharge current I_{total} (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	20 kA
Max. discharge current I_{max} (8/20) μs maximum (line-shield)	20 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Shield)	100 A
Impulse discharge current (10/350) μs , peak value I_{imp}	2.5 kA
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 900 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 900 \text{ V}$
Voltage protection level U_p (line-earth)	$\leq 1.1 \text{ kV}$ (C2 - 10 kV / 5 kA)
	$\leq 900 \text{ V}$ (C1 - 1 kV/500 A)
Voltage protection level U_p (line-shield)	$\leq 900 \text{ V}$ (C1 - 1 kV/500 A)
	$\leq 1.1 \text{ kV}$ (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.	typ. 0.1 dB ($\leq 3 \text{ GHz}$)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	$> 3 \text{ GHz}$
Frequency range	0 Hz ... 3 GHz
Standing wave ratio SWR in a 50 Ω system	typ. 1.15 ($\leq 3 \text{ GHz}$)
	max. 1.2
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	200 W (VSWR = ∞)
Capacity (line-earth)	typ. 1.5 pF

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Technical data

Protective circuit

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 - 2.5 kA

Connection data

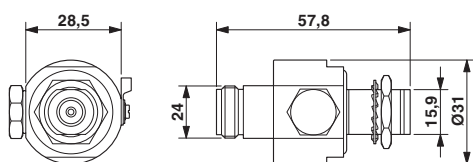
Connection method	N connector 50 Ω
Connection method IN	N connector, female
Connection method OUT	N connector, female

Standards and Regulations

Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

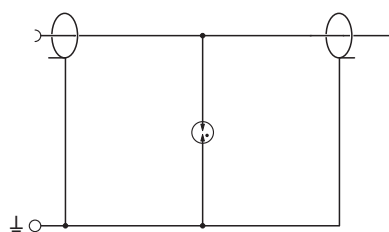
Drawings

Dimensional drawing



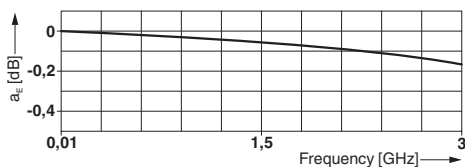
Dimensional drawing
CN-UB-280DC-3-BB

Circuit diagram

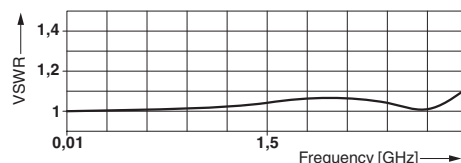


Circuit diagram

Diagram

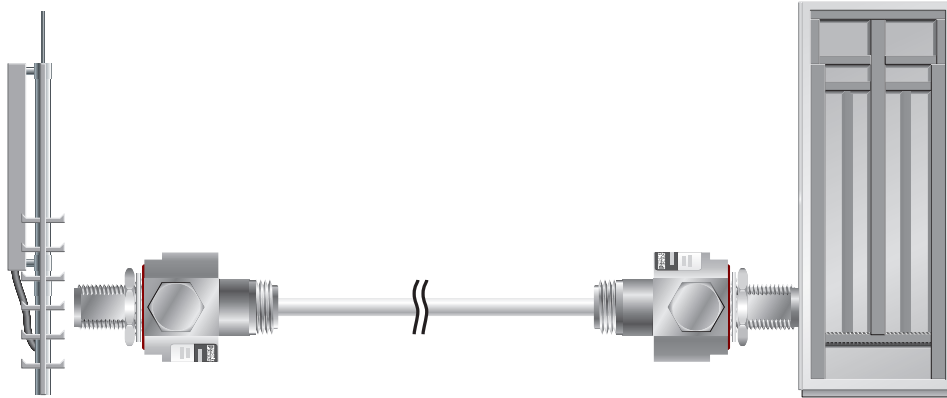


Diagram



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Application drawing



Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC



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