

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

Your advantages

- ✓ 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

RoHS

Key Commercial Data

Packing unit	1 pc
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	$\leq 1 \mu A$
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 (line-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	$\leq 900 V$
Output voltage limitation at 1 kV/ μs (line-shield) spike	$\leq 900 V$
Voltage protection level U_p (line-earth)	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
	$\leq 900 V$ (C1 - 1 kV/500 A)
Voltage protection level U_p (line-shield)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1.1 kV$ (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 aE, asym.	typ. 0.1 dB ($\leq 3 GHz$)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	$> 3 GHz$
Frequency range	0 Hz ... 3 GHz
Standing wave ratio SWR in a 50 Ω system	typ. 1.15 ($\leq 3 GHz$)
	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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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

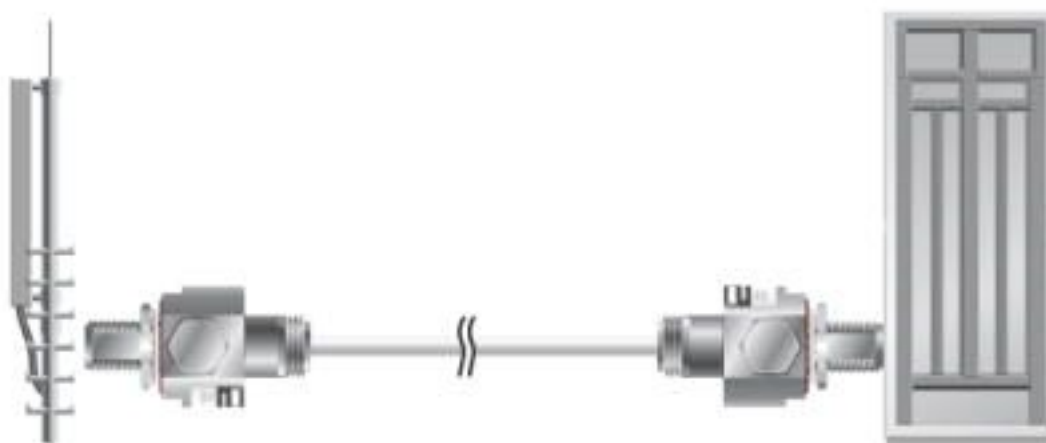
Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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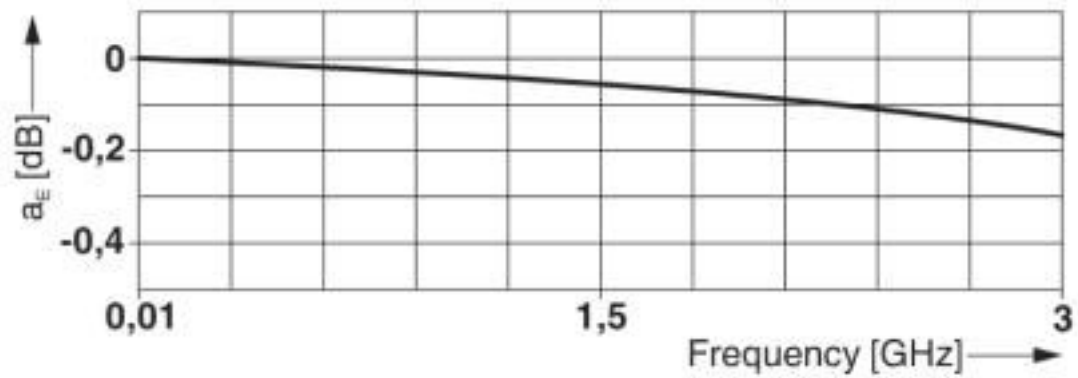
Drawings

Application drawing

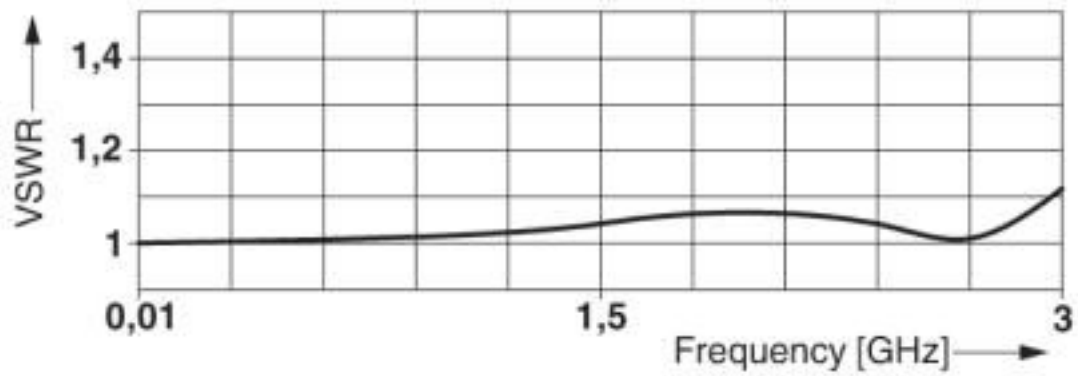


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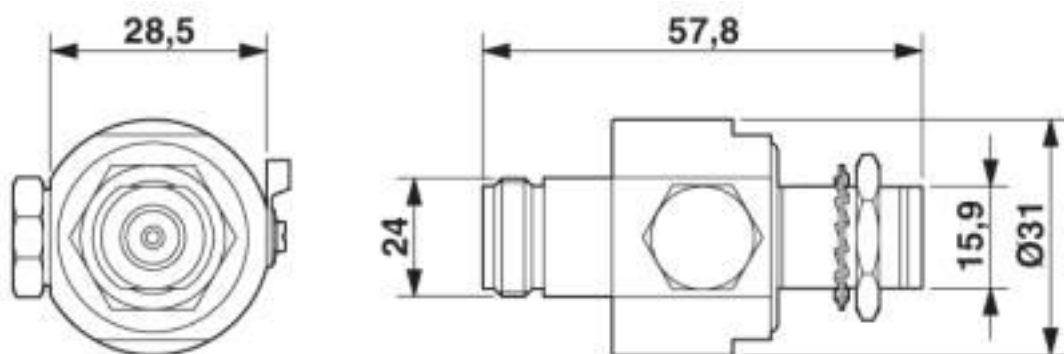
Diagram



Diagram



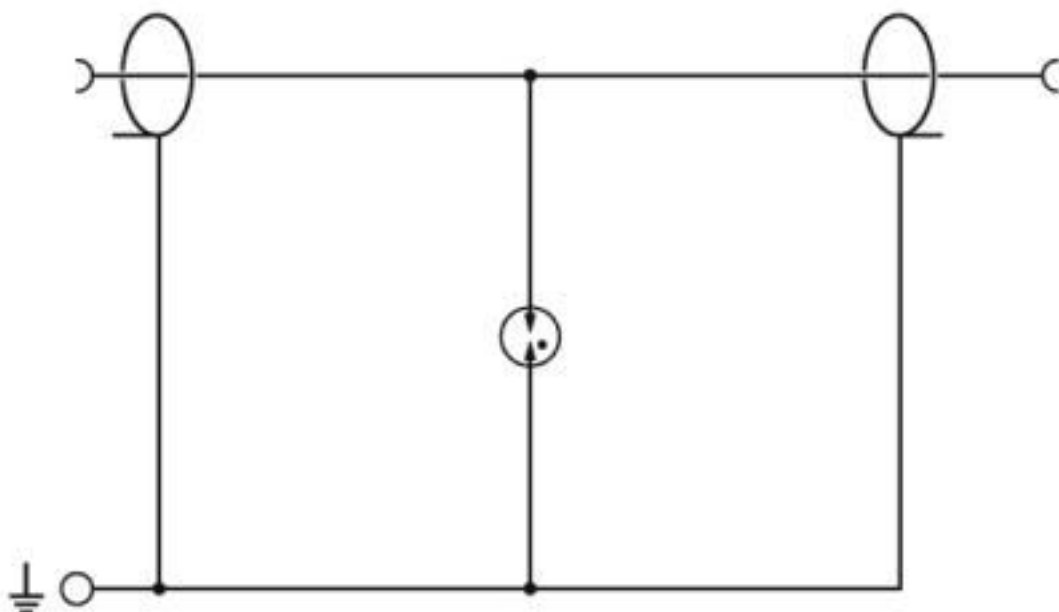
Dimensional drawing



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

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Circuit diagram



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
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

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Classifications

UNSPSC

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

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.*09.B.00169
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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.

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Accessories

Spare parts

Gas-filled surge arrester - CN-UB-G1 - 2818203



Reserve gas-filled surge arrester for CN-UB-280DC...

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