

Surge protection device - CN-UB-280DC-BB - 2818850

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

The illustration shows version CN-UB-280DC-SB

Product Features

- 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 pc
Weight per Piece (excluding packing)	140.0 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	25 mm
Width	25 mm
Depth	67 mm

Ambient conditions

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

General

Housing material	Nickel-plated brass
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Technical data

General

Overvoltage category	III
Degree of pollution	2
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	C1
	C2
	C3
	D1
Maximum continuous voltage U_C	280 V DC
	195 V AC
Nominal current I_N	5 A AC (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Earth)	20 kA
Nominal discharge current I_n (8/20) μs (Core-Shield)	20 kA
Pulse discharge current I_{imp} (10/350) μs (core-ground)	2.5 kA
Pulse discharge current I_{imp} (10/350) μs (core-shield)	2.5 kA
Total surge current (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	20 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Shield)	20 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
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 (Core-Earth) spike	$\leq 900 V$
Output voltage limitation at 1 kV/ μs (Core-Shield) spike	$\leq 900 V$
Voltage protection level U_p (core-ground)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (core-shield)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
	$\leq 1 kV$ (C3 - 25 A)

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Protective circuit

Response time t_A	≤ 100 ns
Input attenuation aE, asym.	typ. 0.1 dB (≤ 1.2 GHz / 50 Ω)
	typ. 0.2 dB (≤ 2.2 GHz / 50 Ω)
Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ohm system	> 3 GHz
Standing wave ratio SWR in a 50 Ω system	typ. 1.1 (≤ 2 GHz)
Permissible HF power P_{max} at VSWR = xx (50 ohm system)	700 W (VSWR = 1.1)
	200 W (VSWR = ∞)
Capacity	typ. 1.5 pF
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2,5 kA
Impulse durability (conductor-shield)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 - 2.5 kA

Connection data

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

Classifications

eCl@ss

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
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

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Classifications

ETIM

ETIM 5.0	EC000943
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UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals


UL Listed / EAC / UL Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Listed 	
Nominal current IN	5 A
Nominal voltage UN	280 V

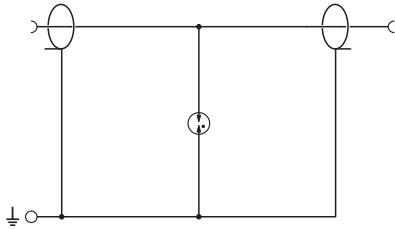
EAC

UL Listed

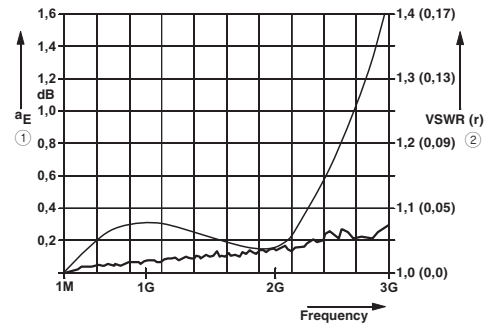
Drawings

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Circuit diagram



Diagram



- ① Typical attenuation curve for CN-UB-280DC...
- ② Typical VSWR at CN-UB-280DC...

Dimensional drawing

