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

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

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

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 GRM
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

Color	nickel
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	III
Pollution degree	2
Mounting type	Connection-specific intermediate plugging
Type	Attachment plug
Direction of action	Line-Shield/Earth Ground

Protective circuit

IEC test classification	C2
	C3
	D1
VDE requirement class	C2
	C3
	D1
Maximum continuous operating voltage U_C	280 V DC
	195 V AC
Maximum continuous voltage U_C (wire-ground)	280 V DC
	195 V AC
Nominal current I_N	5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 µA
Nominal discharge current I_n (8/20) µs (Core-Earth)	20 kA
Nominal discharge current I_n (8/20) µs (Core-Shield)	20 kA
Total surge current (8/20) µs	20 kA
Total surge current (10/350) µs	2.5 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Shield)	20 kA
Nominal pulse current Ian (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	≤ 900 V
Output voltage limitation at 1 kV/µs (Core-Shield) spike	≤ 900 V
Voltage protection level U_P (Core-Earth)	≤ 1.1 kV (C2 - 10 kV / 5 kA)
	≤ 900 V (C1 - 1 kV/500 A)
	≤ 1 kV (C3 - 25 A)
	≤ 1 kV (C3 - 25 A)
	≤ 1 kV (C3 - 25 A)
Voltage protection level U_P (Core-Shield)	≤ 1.1 kV (C2 - 10 kV / 5 kA)
	900 V (C1 - 1 kV/500 A)

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Technical data

Protective circuit

	≤ 1 kV (C3 - 25 A)
	≤ 1 kV (C3 - 25 A)
	≤ 1 kV (C3 - 25 A)
Response time tA (Core-Earth)	≤ 100 ns
Response time tA (Core-GND)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.1 dB (≤ 1.2 GHz)
	typ. 0.2 dB (≤ 2.2 GHz)
Cut-off frequency fg (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 (Core-Earth)	typ. 1.5 pF
Capacity asymmetrical (shield)	typ. 1.5 pF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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

Standards and Regulations

Standards/regulations	IEC 61643-21

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

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Classifications

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

Approvals

UL Listed / GOST

Ex Approvals

Approvals submitted

Approval details

UL Listed

Nominal current IN	5 A
Nominal voltage UN	280 V

GOST

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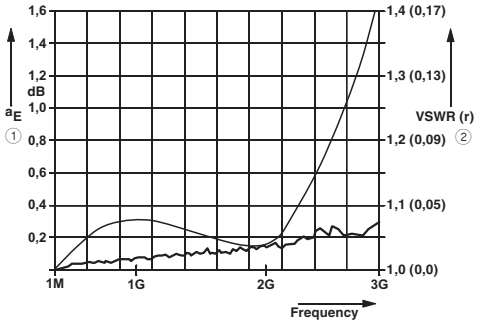
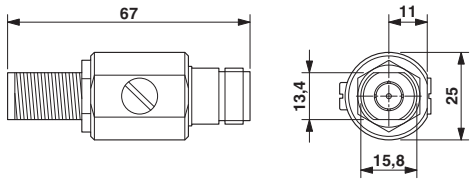
Drawings

Diagram



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

Dimensioned drawing



Circuit diagram