

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 female connector/female connector

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

Why buy this product

- ☒ For outdoor installations
- ☒ Gas-filled surge arrester can be replaced in case of malfunction
- ☒ Replaceable, gas-filled arrester
- ☒ Installed as surge protection between antenna and wireless module
- ☒ Mounting plate enables mounting, e.g., in a control cabinet



Key commercial data

Packing unit	1
Minimum order quantity	1
Catalog page	Page 170 (TT-2011)
GTIN	 4 017918 164027
Custom tariff number	85363010
Country of origin	GERMANY

Technical data

General

Housing material	Nickel-plated brass
Color	nickel
Standards for air and creepage distances	IEC 60664-1
Surge voltage category	III
Pollution degree	2
Total surge current (8/20) μ s	20 kA
Total surge current (10/350) μ s	2.5 kA
Ambient temperature (operation)	-40 °C ... 80 °C
Mounting type	Connection-specific intermediate plugging

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Technical data

General

Design	Attachment plug
Degree of protection	IP55
Direction of action	Line-Shield/Earth Ground
Width	25 mm
Height	25 mm
Depth	67 mm

Protective circuit

IEC category	C2
IEC category	C3
IEC category	D1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous operating voltage UC	280 V DC
Maximum continuous operating voltage UC	195 V AC
Maximum continuous voltage UC (wire-ground)	280 V DC
Maximum continuous voltage UC (wire-ground)	195 V AC
Nominal current I _N	5 A (25°C)
Operating effective current I _C at UC	≤ 1 μA
Nominal discharge surge current I _n (8/20) μs (Core-Earth)	20 kA
Nominal discharge surge current I _n (8/20) μs (Core-Shield)	20 kA
Total surge current (8/20) μs	20 kA
Max. discharge surge current I _{max} (8/20) μs maximum (Core-Shield)	20 kA
Nominal pulse current I _{an} (10/1000) μs (Core-Shield)	100 A
Lightning test 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
Protection level UP (Core-Earth)	≤ 1.1 kV (C2 - 10 kV / 5 kA)
Protection level UP (Core-Earth)	≤ 900 V (C1 - 1 kV/500 A)
Protection level UP (Core-Earth)	≤ 1 kV (C3 - 25 A)
Protection level UP (Core-Earth)	≤ 1 kV (C3 - 25 A)
Protection level UP (Core-Earth)	≤ 1 kV (C3 - 25 A)
Protection level UP (Core-Shield)	≤ 1.1 kV (C2 - 10 kV / 5 kA)
Protection level UP (Core-Shield)	900 V (C1 - 1 kV/500 A)
Protection level UP (Core-Shield)	≤ 1 kV (C3 - 25 A)
Protection level UP (Core-Shield)	≤ 1 kV (C3 - 25 A)
Protection level UP (Core-Shield)	≤ 1 kV (C3 - 25 A)
Response time t _A (Core-Earth)	≤ 100 ns
Response time t _A (Core-GND)	≤ 100 ns
Input attenuation a _E , asym.	Typ. 0.1 dB (≤ 1.2 GHz)
Input attenuation a _E , asym.	Typ. 0.2 dB (≤ 2.2 GHz)
Cut-off frequency f _g (3 dB), asym. (shield) in 50 Ohm system	> 3 GHz

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Protective circuit

Standing wave ratio SWR in a 50 Ω system	Typ. 1.1 (≤ 2 GHz)
Permissible HF power Pmax. at SWR=xx (50 Ohm system)	700 W (VSWR = 1.1)
Permissible HF power Pmax. at SWR=xx (50 Ohm system)	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)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (2.5 kA)

Connection data

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

Connection, protective circuit

Standards/regulations	IEC 61643-21
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Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

unspsc

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

Approvals

Approvals

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Approvals

Approvals

UL Listed / GOST

Ex Approvals

UL Recognized / cUL Recognized / cULus

Approvals submitted

Approval details

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

GOST 
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Accessories

Accessories

Assembly

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.

Additional products

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Accessories

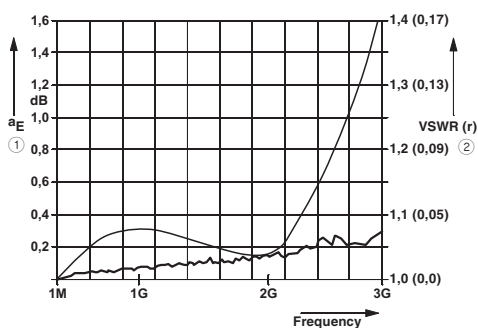
Mounting plate - CN-UB/MP - 2818135



Tongue for attaching the CN-UB..., to housing panels, for example.

Drawings

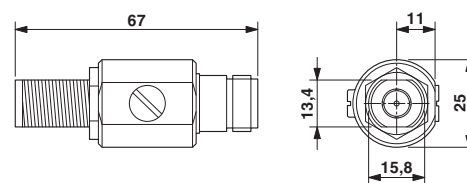
Diagram



① Typical attenuation curve for CN-UB-280DC...

② Typical VSWR at CN-UB-280DC...

Dimensioned drawing



Circuit diagram

