

Surge protection device - CN-UB-280DC-SB - 2818148

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

package_quantity	1
GTIN	4017918148379

Technical data

Dimensions

Height	25 mm
Width	25 mm
Depth	72 mm

Ambient conditions

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

General

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

Protective circuit

IEC test classification	C2
IEC test classification	C3

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Protective circuit

IEC test classification	D1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous operating voltage U_c	280 V DC
Maximum continuous operating voltage U_c	195 V AC
Maximum continuous voltage U_c (wire-ground)	280 V DC
Maximum continuous voltage U_c (wire-ground)	195 V AC
Nominal current I_N	5 A (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
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 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-Earth)	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (Core-Earth)	$\leq 900 V$ (C1 - 1 kV/500 A)
Voltage protection level U_p (Core-Earth)	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (Core-Earth)	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (Core-Earth)	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (Core-Shield)	$\leq 1.1 kV$ (C2 - 10 kV / 5 kA)
Voltage protection level U_p (Core-Shield)	$\leq 900 V$ (C1 - 1 kV/500 A)
Voltage protection level U_p (Core-Shield)	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (Core-Shield)	$\leq 1 kV$ (C3 - 25 A)
Voltage protection level U_p (Core-Shield)	$\leq 1 kV$ (C3 - 25 A)
Response time t_A (Core-Earth)	$\leq 100 ns$
Response time t_A (Core-GND)	$\leq 100 ns$
Input attenuation aE, asym.	typ. 0.1 dB ($\leq 1.2 GHz$)
Input attenuation aE, asym.	typ. 0.2 dB ($\leq 2.2 GHz$)
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 ($\leq 2 GHz$)
Permissible HF power P_{max} at SWR=xx (50 Ohm system)	700 W (VSWR = 1.1)
Permissible HF power P_{max} 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)

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Protective circuit

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, male
Connection type OUT	N connector, female

Standards and Regulations

Standards/regulations	IEC 61643-21
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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

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

UL Recognized / cUL Recognized / cULus Recognized / UL Listed / GOST /

Approval details

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approvals

UL Recognized 

cUL Recognized 

cULus Recognized 

UL Listed 

Nominal voltage UN	280 V
Nominal current IN	5 A
mm²/AWG/kcmil	

GOST 

accessories

Assembly adapter

CN-UB/MP - 2818135



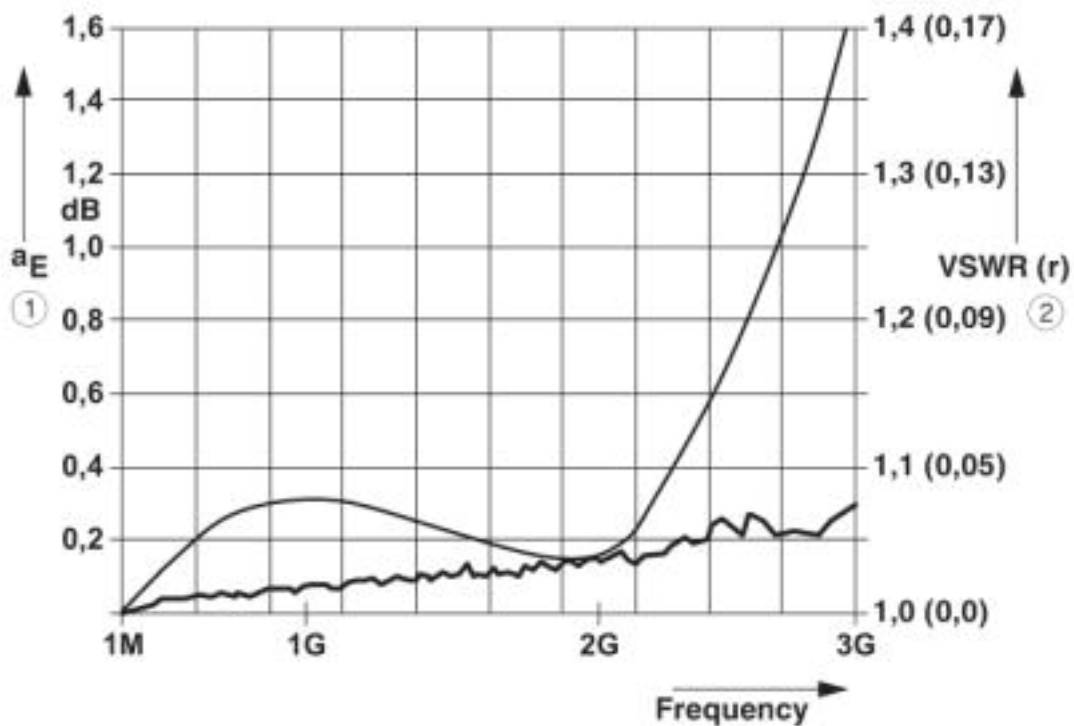
CN-UB/MP-90DEG-50 - 2803137



Drawings

Surge protection device - CN-UB-280DC-SB - 2818148

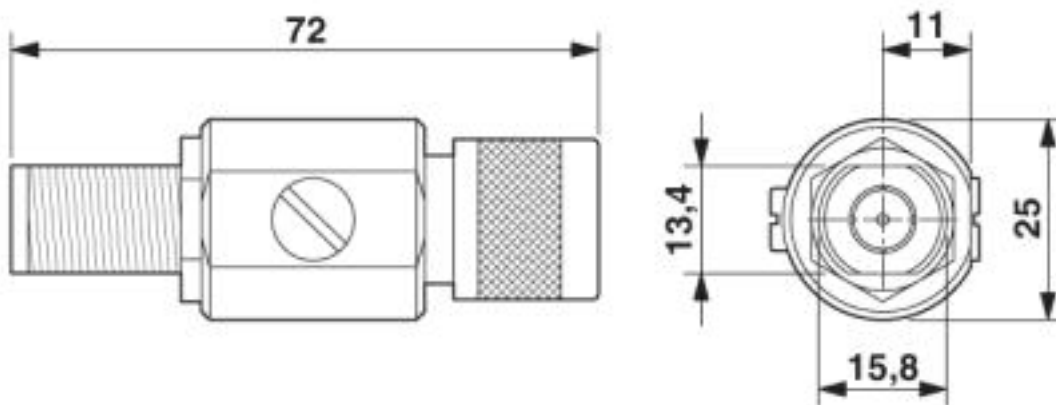
Diagram



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

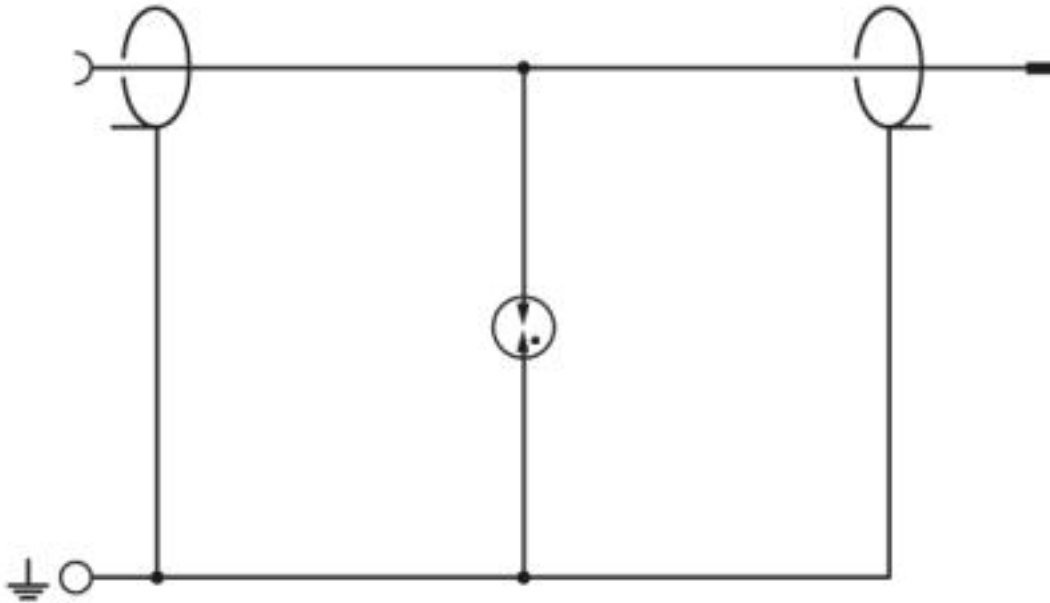
② Typical VSWR at CN-UB-280DC...

Dimensioned drawing



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Circuit diagram



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