

CN-UB-70DC-6-SB - Surge protection device



2803153

<https://www.phoenixcontact.com/us/products/2803153>

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Attachment plug with surge protection for coaxial signal interfaces. Connection: N connector, male/female

'BB' version shown

Your advantages

- Mounting plate enables mounting, e.g., in a control cabinet

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2803153 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL25 |
| Product key | CL3311 |
| GTIN | 4046356293204 |
| Weight per piece (including packing) | 83.1 g |
| Weight per piece (excluding packing) | 83.1 g |
| Customs tariff number | 85363010 |
| Country of origin | US |

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Technical data

Notes

General

| | |
|------|---|
| 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." |
|------|---|

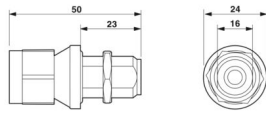
Product properties

| | |
|--------------------------------|--|
| Product type | Surge protection for transceiver systems |
| IEC test classification | C2 |
| | C3 |
| | D1 |
| VDE requirement class | C2 |
| | C3 |
| | D1 |
| Type | Intermediate plug |
| Surge protection fault message | none |

Connection data

| | |
|-------------------|------------------------------------|
| Connection method | N connector 50 Ω |
| Tightening torque | 1.4 Nm ... 1.7 Nm (N coupling nut) |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 24 mm |
| Height | 24 mm |
| Depth | 50 mm |

Material specifications

| | |
|----------------------------------|--------------|
| Color | nickel color |
| Seal material | Silicon |
| Housing material | Brass (CuZn) |
| Housing surface material | Ni |
| Inner conductor material | BeCu |
| Inner conductor surface material | Gold |
| Insulation body material | PTFE |

Mechanical properties

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Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Protective circuit

| | |
|---|---|
| Direction of action | Line-Shield/Earth Ground |
| Maximum continuous operating voltage U_C | 70 V DC |
| | 50 V AC |
| Maximum continuous voltage U_C (line-earth) | 70 V DC |
| | 50 V AC |
| Rated current | 10 A |
| Operating effective current I_C at U_C | $\leq 1 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs | 5 kA |
| Nominal discharge current I_n (8/20) μs (line-ground) | 5 kA |
| Nominal discharge current I_n (8/20) μs (line-shield) | 5 kA |
| Pulse discharge current I_{imp} (10/350) μs | 1 kA |
| Pulse discharge current I_{imp} (10/350) μs (line-earth) | 1 kA |
| Max. discharge current I_{max} (8/20) μs maximum (line-earth) | 10 kA |
| Max. discharge current I_{max} (8/20) μs maximum (line-shield) | 10 kA |
| Nominal pulse current I_{an} (10/1000) μs (line-shield) | 100 A |
| Impulse discharge current (10/350) μs , peak value I_{imp} | 1 kA |
| Output voltage limitation at 1 kV/ μs (line-earth) spike | $\leq 650 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-shield) spike | $\leq 650 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-earth) static | $\leq 650 \text{ V}$ |
| Output voltage limitation at 1 kV/ μs (line-shield) static | $\leq 650 \text{ V}$ |
| Voltage protection level U_p (line-earth) | $\leq 800 \text{ V}$ (C2 - 4 kV / 2 kA) |
| | $\leq 1 \text{ kV}$ (C2 - 10 kV / 5 kA) |
| Voltage protection level U_p (line-shield) | $\leq 800 \text{ V}$ (C2 - 4 kV / 2 kA) |
| | $\leq 1 \text{ kV}$ (C2 - 10 kV / 5 kA) |
| Response time t_A (line-earth) | $\leq 100 \text{ ns}$ |
| Response time t_A (line-shield) | $\leq 100 \text{ ns}$ |
| Input attenuation aE, asym. | 0.1 dB ($\leq 6 \text{ GHz}$) |
| Cut-off frequency f_g (3 dB), asym. (shield) in 50 Ω system | $> 6 \text{ GHz}$ |
| Frequency range | 0 Hz ... 6 GHz |
| Voltage standing wave ratio VSWR in a 50 Ω system | typ. 1.15 ($\leq 6 \text{ GHz}$) |
| Permissible HF power P_{max} at VSWR = xx (50 ohm system) | 30 W (VSWR = 1.15) |
| Capacity (Core-Earth) | typ. 1.5 pF |
| 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 - 1 kA |
| Impulse durability (line-shield) | C2 - 10 kV/5 kA |
| | C3 - 100 A |

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| | |
|---|-----------|
| | D1 - 1 kA |
| Alternating current carrying capacity (line-shield) | 5 A - 1 s |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP68 |
| | IP68 |
| Ambient temperature (operation) | -40 °C ... 90 °C |

Standards and regulations

| | |
|-----------------------|----|
| VDE requirement class | C2 |
| | C3 |
| | D1 |

Standards Information technology specification

| | |
|-----------------------|--------------|
| Standards/regulations | IEC 61643-21 |
| | IEC 61643-21 |

Air clearances and creepage distances

| | |
|--------------------------|------------------------------|
| Standards/regulations | DIN VDE 0110-1 / IEC 60664-1 |
| Standards/specifications | IEC 61643-21 |
| Note | 2000 |

Mounting

| | |
|---------------|---|
| Mounting type | Connection-specific intermediate plugging |
|---------------|---|

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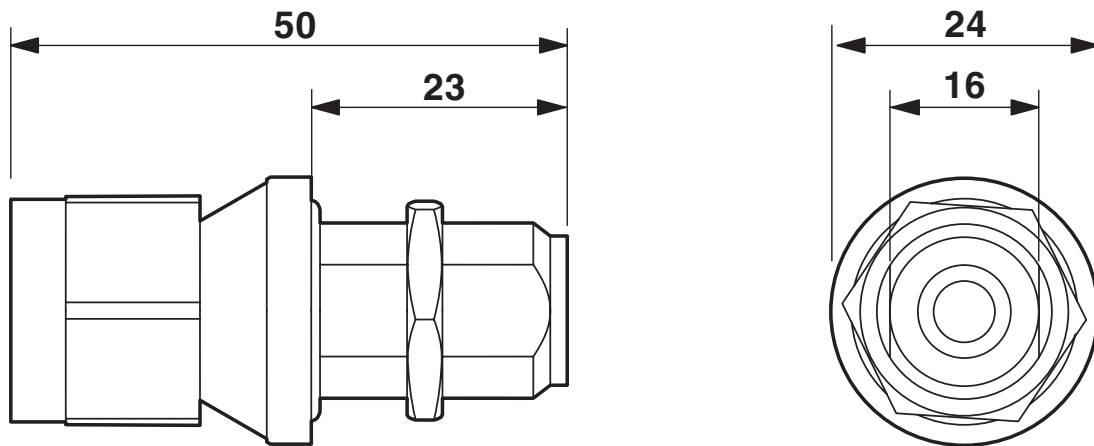


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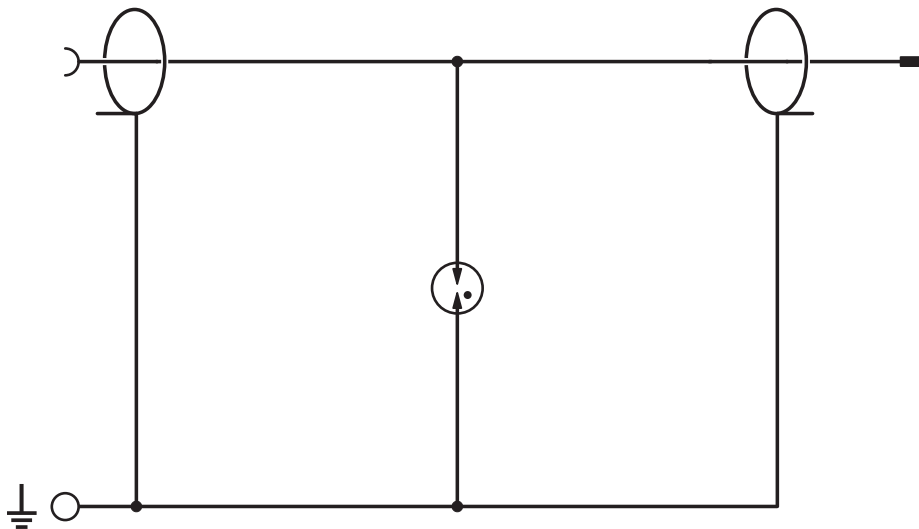
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Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171504 |
| ECLASS-15.0 | 27171504 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001466 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 8.725 kg CO2e |
|---------|---------------|

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