

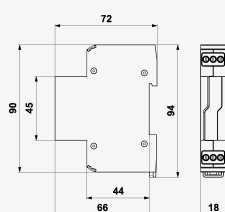
# BD-090-T

**SPD - for data, signalling and telecommunications lines / I&C / ST1 (BD) - compact**  
 Lightning current arrester for telecommunication and signalling lines  
 compact device

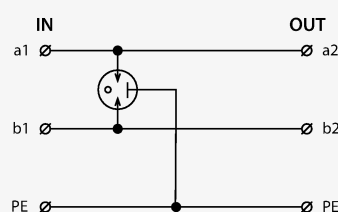
- lightning current arrester of 2-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones at the line entry into building
- mainly for protection of telecommunication lines against surge voltage



Product dimensions



Basic circuit diagram



Parameter name	Parameter value
Type of SPD	D1,C2
Location of SPD	ST 1
Mounting	DIN rail 35 mm
Maximum operating voltage	$U_c$ 50.00 V AC
Maximum operating voltage	$U_c$ 70.00 V DC
Nominal load current	$I_L$ 1.600 A
Treshold frequency core-core	$f$ 120.00 MHz
D1 impulse discharge current (10/350 $\mu$ s) per core	$I_{imp}$ 2.50 kA
D1 total discharge current (10/350 $\mu$ s) cores-PE	$I_{Total}$ 5.00 kA
C2 nominal discharge current (8/20 $\mu$ s) per core	$I_n$ 10.00 kA
C2 total discharge current (8/20 $\mu$ s) cores-PE	$I_{Total}$ 20.00 kA
C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s	$U_p$ 550 V
C3 voltage protection level mode core-core at 1 kV/ $\mu$ s	$U_p$ 550 V
Response time core-core	$t_a$ 100 ns
Response time core-PE	$t_a$ 100 ns

Connection (input - output)	<b>terminals-terminals</b>
Cross-section of connected conductors solid (max)	<b>6.00 mm<sup>2</sup></b>
Cross-section of connected conductors stranded (max)	<b>6.00 mm<sup>2</sup></b>
Degree of protection	<b>IP 20</b>
Range of ambient temperatures (min/max)	<b>-40 / 70 °C</b>
According to standard	<b>EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012</b>
ETIM Class	<b>EC001466</b>
Customs tariff number	<b>85363030</b>
EAN	<b>8595090558217</b>
Order number	<b>A05821</b>

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24.11.2024 -  
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