

# BDG-048-V/1-FR1

## SPD - for data, signalling and telecommunications lines / I&C / ST1+2+3 (BDM, BDG) - pluggable

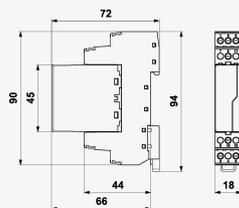
Lightning current arrester combined with fine surge protection for shielded 2-core signalling lines

pluggable module, coupling impedance (R – resistance), line separated from protective earth via GDT

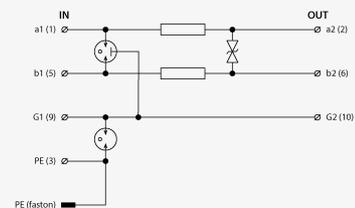
- coarse and fine surge protection of shielded 2-core telecommunication, data and other lines
- installation at the boundary of LPZ 0 and LPZ 1 zones at the line entry into building
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly the measuring circuits) against impact of surge voltage
- coarse and fine surge protection (core – core) and coarse protection (core – GND) in differential mode, coarse surge protection in common mode (line – PE)



Product dimensions



Basic circuit diagram



Parameter name	Parameter value
Type of SPD	D1,C2
Location of SPD	ST 1+2+3
Mounting	DIN rail 35 mm
Nominal voltage	$U_n$ 48 V DC
Maximum operating voltage	$U_c$ 36.00 V AC
Maximum operating voltage	$U_c$ 51.00 V DC
Nominal load current	$I_L$ 1.000 A

Threshold frequency core-core	<b>f</b>	<b>7.00 MHz</b>
Serial resistance per core	<b>R</b>	<b>0.80 Ω</b>
D1 impulse discharge current (10/350 μs) per core	<b>I<sub>imp</sub></b>	<b>2.50 kA</b>
D1 total discharge current (10/350 μs) cores-PE	<b>I<sub>Total</sub></b>	<b>5.00 kA</b>
C2 nominal discharge current (8/20 μs) GND-PE	<b>I<sub>n</sub></b>	<b>10.00 kA</b>
C2 nominal discharge current (8/20 μs) per core	<b>I<sub>n</sub></b>	<b>10.00 kA</b>
C2 total discharge current (8/20 μs) cores-PE	<b>I<sub>Total</sub></b>	<b>20.00 kA</b>
C3 nominal discharge current (10/1000 μs) core-PE	<b>I<sub>SM</sub></b>	<b>10 A</b>
C3 nominal discharge current (10/1000 μs) core-core	<b>I<sub>SM</sub></b>	<b>10 A</b>
C3 voltage protection level mode GND-PE at 1 kV/μs	<b>U<sub>p</sub></b>	<b>550.00 V</b>
C3 voltage protection level mode core-GND at 1 kV/μs	<b>U<sub>p</sub></b>	<b>550.00 V</b>
C3 voltage protection level mode core-core at 1 kV/μs	<b>U<sub>p</sub></b>	<b>65 V</b>
Response time core-core	<b>t<sub>a</sub></b>	<b>1 ns</b>
Response time core-GND	<b>t<sub>a</sub></b>	<b>100 ns</b>
Response time GND-PE	<b>t<sub>a</sub></b>	<b>100 ns</b>
Connection (input - output)		<b>terminals-terminals</b>
Cross-section of connected conductors solid (min)		<b>0.14 mm<sup>2</sup></b>
Cross-section of connected conductors solid (max)		<b>4.00 mm<sup>2</sup></b>
Cross-section of connected conductors stranded (min)		<b>0.14 mm<sup>2</sup></b>
Cross-section of connected conductors stranded (max)		<b>2.50 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>
Plug module		<b>BDG-048-V/1-0</b>

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