

# BDGHF-006-V/2-FR1

**SPD - for data, signalling and telecommunications lines / I&C / Specials - for BUS systems (high speed rate)**

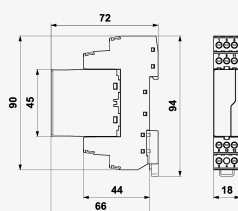
Lightning current arrester with coarse and fine surge protection of two 2-core high-speed shielding floating signalling lines

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

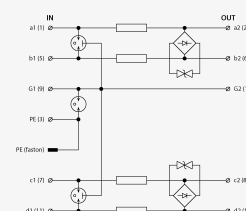
- lightning current arrester with coarse and fine surge protection for two 2-core high-speed signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of telecommunication lines (version BDGHF-230) and interfaces of I&C, MaR systems, electronic security and fire detection systems, etc. (mainly for RS-485, PROFIBUS interfaces) against surge voltage
- coarse and fine surge protection (core – core) in differential mode and coarse surge protection in common mode (line – PE)



Product dimensions



Basic circuit diagram



Parameter name		Parameter value
Type of SPD		<b>D1,C2</b>
Location of SPD		<b>ST 1+2+3</b>
Mounting		<b>DIN rail 35 mm</b>
Nominal voltage	$U_n$	<b>6 V DC</b>
Maximum operating voltage	$U_c$	<b>6.00 V AC</b>
Maximum operating voltage	$U_c$	<b>8.50 V DC</b>
Nominal load current	$I_L$	<b>1.000 A</b>
Treshold frequency core-core	$f$	<b>70.00 MHz</b>

Serial resistance per core	<b>R</b>	<b>0.80 Ω</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>14 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>EC001625</b>	
Plug module	<b>BDGHF-006-V/2-0</b>	
Customs tariff number	<b>85363010</b>	
EAN	<b>8595090565239</b>	
Order number	<b>A06523</b>	