

# BDGHF-012-V/2-FR1

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

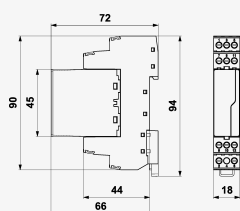
Lightning current arrester with coarse and fine surge protection of two 2-core high-speed shielding floating signalling lines

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

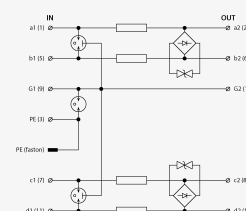
- lightning current arrester with coarse and fine surge protection for two 2-core high-speed signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of telecommunication lines (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>12 V DC</b>
Maximum operating voltage	$U_c$	<b>11.00 V AC</b>
Maximum operating voltage	$U_c$	<b>16.00 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	R	0.80 Ω
C2 nominal discharge current (8/20 μs) GND-PE	I <sub>n</sub>	10.00 kA
C2 nominal discharge current (8/20 μs) per core	I <sub>n</sub>	10.00 kA
C2 total discharge current (8/20 μs) cores-PE	I <sub>Total</sub>	20.00 kA
C3 nominal discharge current (10/1000 μs) core-PE	I <sub>SM</sub>	10 A
C3 nominal discharge current (10/1000 μs) core-core	I <sub>SM</sub>	10 A
C3 voltage protection level mode GND-PE at 1 kV/μs	U <sub>p</sub>	550.00 V
C3 voltage protection level mode core-GND at 1 kV/μs	U <sub>p</sub>	550.00 V
C3 voltage protection level mode core-core at 1 kV/μs	U <sub>p</sub>	24 V
Response time core-core	t <sub>a</sub>	1 ns
Response time core-GND	t <sub>a</sub>	100 ns
Response time GND-PE	t <sub>a</sub>	100 ns
Connection (input - output)		terminals-terminals
Cross-section of connected conductors solid (min)		0.14 mm <sup>2</sup>
Cross-section of connected conductors solid (max)		4.00 mm <sup>2</sup>
Cross-section of connected conductors stranded (min)		0.14 mm <sup>2</sup>
Cross-section of connected conductors stranded (max)		2.50 mm <sup>2</sup>
Degree of protection		IP 20
Range of ambient temperatures (min/max)		-40 / 70 °C
According to standard		EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012
ETIM Class		EC001625
Plug module		BDGHF-012-V/2-0
Customs tariff number		85363010
EAN		8595090565291
Order number		A06529