BDG-048-V/1-4FR1

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

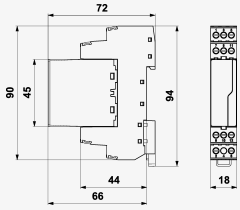
Lightning current arrester with coarse and fine surge protection for up to 4-core shielding floating signalling lines

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

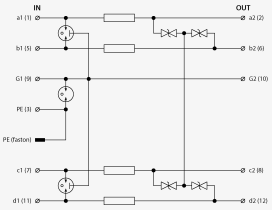
- lightning current arrester with coarse and fine surge protection for up to 4-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of communication interfaces of I&C, MaR systems, electronic security and fire detection systems, etc. (mainly for RS-485 inter- faces) against impact of 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		D1,C2
Location of SPD		ST 1+2+3
Mounting		DIN rail 35 mm
Nominal voltage	U_n	48.00 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
Treshold frequency core-core	f	7.00 MHz
Serial resistance per core	R	0.80 Ω

D1 impulse discharge current (10/350 µs) per core	I_{imp}	2.50 kA
D1 total discharge current (10/350 µs) cores-PE	I_{Total}	5.00 kA
C2 nominal discharge current (8/20 µs) GND-PE	I_n	10.00 kA
C2 nominal discharge current (8/20 µs) per core	I_n	10.00 kA
C2 total discharge current (8/20 µs) cores-PE	I_{Total}	20.00 kA
C3 nominal discharge current (10/1000 µs) core-PE	I_{SM}	10.00 A
C3 nominal discharge current (10/1000 µs) core-core	I_{SM}	10.00 A
C3 voltage protection level mode GND-PE at 1 kV/µs	U_p	550.00 V
C3 voltage protection level mode core-GND at 1 kV/µs	U_p	550.00 V
C3 voltage protection level mode core-core at 1 kV/µs	U_p	90.00 V
Response time core-core	t_a	1 ns
Response time core-GND	t_a	100 ns
Response time GND-PE	t_a	100 ns
Connection (input - output)		terminals-terminals
Cross-section of connected conductors solid (min)		0.14 mm^2
Cross-section of connected conductors solid (max)		4.00 mm^2
Cross-section of connected conductors stranded (min)		0.14 mm^2
Cross-section of connected conductors stranded (max)		2.50 mm^2
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		BDG-048-V/1-4-0
Customs tariff number		85363010
EAN		8595090564911
Order number		A06491