

BDM-024-V/1-FR1

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

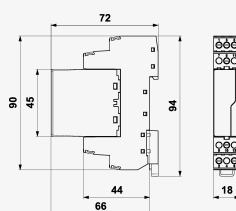
Lightning current arrester combined with fine surge protection for 2/3-core signalling lines

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

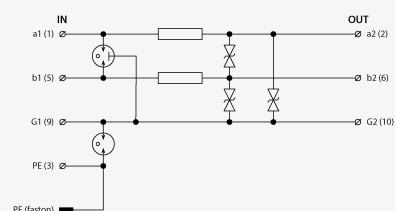
- coarse and fine surge protection of 2/3-core telecommunication, data and other lines
- installation at the boundary of LPZ 0 and LPZ 1 zones at the line entry into building
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection (core – core, GND) 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	24 V DC
Maximum operating voltage	U_c	25.00 V AC
Maximum operating voltage	U_c	36.00 V DC
Nominal load current	I_L	1.000 A
Treshold frequency core-core	f	4.00 MHz
Serial resistance per core	R	0.80 Ω
D1 impulse discharge current (10/350 μ s) per core	I_{imp}	2.50 kA

D1 total discharge current (10/350 μ s) cores-PE	I_{Total}	5.00 kA
C2 nominal discharge current (8/20 μ s) GND-PE	I_n	10.00 kA
C2 nominal discharge current (8/20 μ s) per core	I_n	10.00 kA
C2 total discharge current (8/20 μ s) cores-PE	I_{Total}	20.00 kA
C3 nominal discharge current (10/1000 μ s) core-PE	I_{SM}	10 A
C3 nominal discharge current (10/1000 μ s) core-core	I_{SM}	10 A
C3 voltage protection level mode GND-PE at 1 kV/ μ s	U_p	550.00 V
C3 voltage protection level mode core-GND at 1 kV/ μ s	U_p	46.00 V
C3 voltage protection level mode core-core at 1 kV/ μ s	U_p	46 V
Response time core-core	t_a	1 ns
Response time core-GND	t_a	1 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	EC001466	
Plug module	BDM-024-V/1-0	
Customs tariff number	85363010	
EAN	8595090557111	
Order number	A05711	