

BDM-06 BDM-12 BDM-24 BDM-48 BDM-230

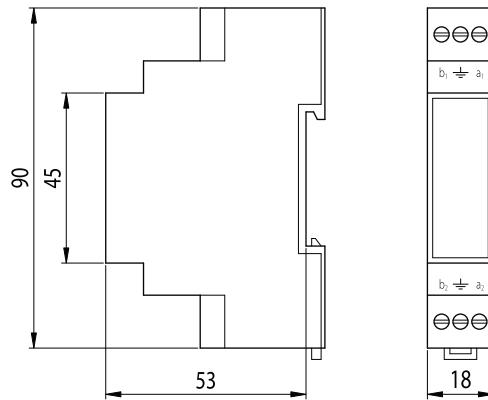
Lightning current arrester

Combined with coarse and fine surge protection for telecommunication and signalling networks.

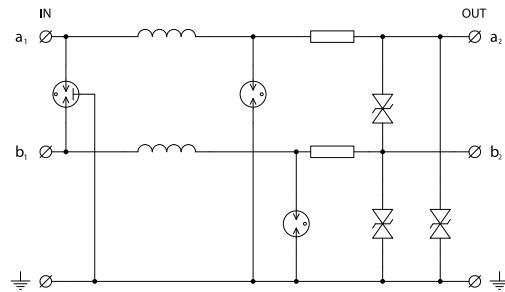
Designed to protect 2-wire telecommunication, data and other lines and the communication interface of M&C, ESS, and EFS control systems, etc. at the boundary of LPZ 0_A–LPZ 1 zones and higher. It is installed directly before the protected equipment. Longitudinal overvoltage (core – earth) and lateral overvoltage (core – core) are prevented by a three-level combination of lightning current arrester, coarse and fine surge protection.



Dimension drawing



Basic circuit diagram



Technical data

	BDM-06	BDM-12	BDM-24	BDM-48	BDM-230
Location SPD	[ST 1+2+3]				
Nominal voltage	U _n 6 V DC	12 V DC	24 V DC	48 V DC	230 V DC
Maximum operating voltage	U _c 8,1 V DC / 5,7 V AC	14,5 V DC / 10,2 V AC	26,8 V DC / 19 V AC	50,2 V DC / 35,6 V AC	243 V DC / 172 V AC
Nominal current	I _L 1 A	1 A	1 A	1 A	1 A
D1 total impulse current (10/350 µs)	I _{imp} 5 kA	5 kA	5 kA	5 kA	5 kA
C2 nominal discharge current (8/20 µs) per line	I _n 10 kA	10 kA	10 kA	10 kA	10 kA
C2 voltage protection level line - line at I _n	U _p 25 V	40 V	65 V	95 V	800 V
C2 voltage protection level line - PE at I _n	U _p 25 V	40 V	65 V	95 V	800 V
C3 voltage protection level line - line at 1 kV/µs	U _p 14 V	22 V	40 V	75 V	380 V
C3 voltage protection level line - PE at 1 kV/µs	U _p 14 V	22 V	40 V	75 V	380 V
Series resistance per line	R 1 Ω	1 Ω	1 Ω	1 Ω	1 Ω
Threshold frequency line - line	f _G 4 MHz	11 MHz	17 MHz	24 MHz	53 MHz
Response time line - line	t _a 1 ns	1 ns	1 ns	1 ns	1 ns
Response time line - PE	t _a 1 ns	1 ns	1 ns	1 ns	1 ns
Degree of protection	IP 20				
Range of operating temperatures	–40 °C ... +80 °C				
Mounting on	DIN rail 35 mm				
Cross-section of connected conductors					
Solid max	ISO: 4 mm ² ; AWG: 11				
Stranded max	ISO: 2,5 mm ² ; AWG: 13				
Tightening torque	0,6 Nm				
Meets the requirements of standard	EN 61643-21				
Ordering number	8595090522027	8595090522034	8595090522041	8595090522058	8595090530787