DM-012/1-R-DJ

SPD - for data, signalling and telecommunications lines / I&C / ST2+3 (DM) - compact

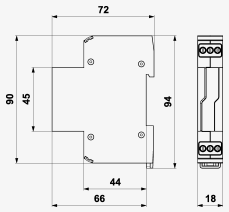
Surge protection for 2-core signalling lines

coupling impedance (R – resistance)

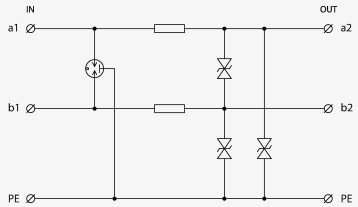
- coarse and fine surge protection for 2-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I<(>&<)>C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection in differential mode (core – core) and common mode (core – PE)



Product dimensions



Basic circuit diagram



Parameter name		Parameter value
Type of SPD		D1,C1,C2,C3,B2
Location of SPD		ST 2+3
Mounting		DIN rail 35 mm
Nominal voltage	U_n	12.00 V DC
Maximum operating voltage	U_c	11.00 V AC
Maximum operating voltage	U_c	16.00 V DC
Nominal load current	I_L	0.500 A
Treshold frequency core-core	f	2.00 MHz
Serial resistance per core	R	1.00 Ω
D1 total discharge current (10/350 µs) cores-PE	I_{Total}	1.00 kA
C1 voltage protection level mode core-core	U_p	30.00 V

C1 test voltage mode core-core	U_{OC}	4.00 kV
C1 voltage protection level mode core-PE	U_p	30.00 V
C1 test voltage mode core-PE	U_{OC}	4.00 kV
B2 voltage protection level mode core-core	U_p	25.00 V
B2 test voltage mode core-core	U_{OC}	1.00 kV
B2 voltage protection level mode core-PE	U_p	25.00 V
B2 test voltage mode core-PE	U_{OC}	1.00 kV
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
C2 voltage protection level mode core-PE at In	U_p	35.00 V
C2 test voltage mode core-PE	U_{OC}	20.00 kV
C2 voltage protection level mode core-core at In	U_p	35.00 V
C2 test voltage mode core-core	U_{OC}	20.00 kV
C3 voltage protection level mode core-PE at 1 kV/µs	U_p	25.00 V
C3 voltage protection level mode core-core at 1 kV/µs	U_p	25.00 V
Response time core-core	t_a	1 ns
Response time core-PE	t_a	1 ns
Connection (input - output)		terminals-terminals
Cross-section of connected conductors solid (max)		4.00 mm^2
Cross-section of connected conductors stranded (max)		4.00 mm^2
Degree of protection		IP 20
Range of ambient temperatures (min/max)		-40 / 80 °C
Humidity		5 - 95 %
According to standard		EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012
ETIM Class		EC001625
Customs tariff number		85363010
EAN		8595090567271
Order number		A06727