

DM-048/1-L2-DJ

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

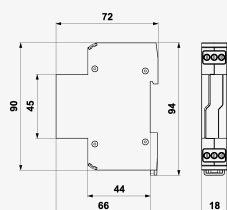
Surge protection for 2-core signalling lines

coupling impedance (L_2 – inductance)

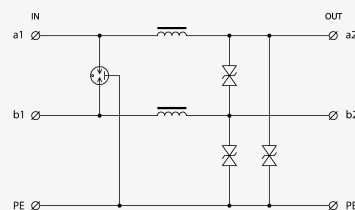
- coarse and fine surge protection for 2-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I<(>&<)>C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge 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	48 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	2.000 A
Threshold frequency core-core	f	0.15 MHz
Serial resistance per core	R	0.22 Ω
Serial inductance per core	L	100.00 μ H
D1 total discharge current (10/350 μ s) cores-PE	I_{Total}	1.00 kA

C1 voltage protection level mode core-core	U_p	70.00 V
C1 test voltage mode core-core	U_{OC}	4.00 kV
C1 voltage protection level mode core-PE	U_p	70.00 V
C1 test voltage mode core-PE	U_{OC}	4.00 kV
B2 voltage protection level mode core-core	U_p	70.00 V
B2 test voltage mode core-core	U_{OC}	1.00 kV
B2 voltage protection level mode core-PE	U_p	70.00 V
B2 test voltage mode core-PE	U_{OC}	1.00 kV
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
C2 voltage protection level mode core-PE at I_n	U_p	95 V
C2 test voltage mode core-PE	U_{OC}	20.00 kV
C2 voltage protection level mode core-core at I_n	U_p	95 V
C2 test voltage mode core-core	U_{OC}	20.00 kV
C3 voltage protection level mode core-PE at 1 kV/ μ s	U_p	70 V
C3 voltage protection level mode core-core at 1 kV/ μ s	U_p	70 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	8595090567332	

Order number	A06733
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