

# DM-012/1-L2-DJ

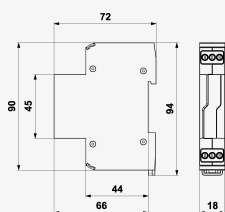
## SPD - for data, signalling and telecommunications lines / I&C / ST2+3 (DM) - compact

Surge protection for 2-core signalling lines  
coupling impedance (L2 – inductance)

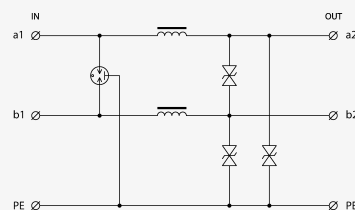
- coarse and fine surge protection for 2-core signalling lines
- installation close to protected equipment
- for protection of communication interfaces of I&C, electronic security and fire detection systems, etc. (mainly for RS-485 interfaces) against impact of surge voltage
- coarse and fine surge protection 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	$U_n$ 12 V DC
Maximum operating voltage	$U_c$ 11.00 V AC
Maximum operating voltage	$U_c$ 16.00 V DC
Nominal load current	$I_L$ 2.000 A
Threshold frequency core-core	$f$ 0.15 MHz
Serial resistance per core	$R$ 0.22 $\Omega$
Serial inductance per core	$L$ 100.00 $\mu$ H
D1 total discharge current (10/350 $\mu$ s) cores-PE	$I_{Total}$ 1.00 kA

C1 voltage protection level mode core-core	$U_p$	25.00 V
C1 test voltage mode core-core	$U_{OC}$	4.00 kV
C1 voltage protection level mode core-PE	$U_p$	25.00 V
C1 test voltage mode core-PE	$U_{OC}$	4.00 kV
B2 voltage protection level mode core-core	$U_p$	30.00 V
B2 test voltage mode core-core	$U_{OC}$	1.00 kV
B2 voltage protection level mode core-PE	$U_p$	30.00 V
B2 test voltage mode core-PE	$U_{OC}$	1.00 kV
C2 nominal discharge current (8/20 $\mu$ s) per core	$I_n$	10.00 kA
C2 total discharge current (8/20 $\mu$ s) cores-PE	$I_{Total}$	20.00 kA
C3 nominal discharge current (10/1000 $\mu$ s) core-PE	$I_{SM}$	10 A
C3 nominal discharge current (10/1000 $\mu$ s) core-core	$I_{SM}$	10 A
C2 voltage protection level mode core-PE at $I_n$	$U_p$	35 V
C2 test voltage mode core-PE	$U_{OC}$	20.00 kV
C2 voltage protection level mode core-core at $I_n$	$U_p$	35 V
C2 test voltage mode core-core	$U_{OC}$	20.00 kV
C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s	$U_p$	25 V
C3 voltage protection level mode core-core at 1 kV/ $\mu$ s	$U_p$	25 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 <sup>2</sup>
Cross-section of connected conductors stranded (max)		4.00 mm <sup>2</sup>
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		8595090567318

Order number

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