

# DMG-024/1-RB

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

Surge protection for 2-core floating signalling networks

coupling impedance (resistance), screwless terminals

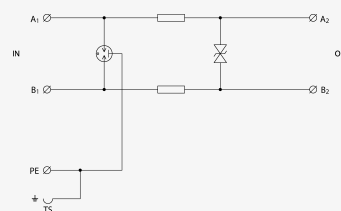
- coarse and fine surge protection for 2-core signalling networks
- installation close to protected equipment
- for protection of communication interfaces and measuring lines of I&C, electronic security and fire detection systems, etc. against impact of surge voltage
- coarse and fine surge protection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



Product dimensions



Basic circuit diagram



Parameter name		Parameter value
Type of SPD		C2,C3
Location of SPD		ST 2+3
Mounting		DIN rail 35 mm
Nominal voltage	$U_n$	24.00 V DC
Maximum operating voltage	$U_c$	25.00 V AC
Maximum operating voltage	$U_c$	36.00 V DC
Nominal load current	$I_L$	0.500 A
Threshold frequency core-core	$f$	4.00 MHz
Serial resistance per core	$R$	2.20 $\Omega$
D1 impulse discharge current (10/350 $\mu$ s) per core	$I_{imp}$	0.50 kA

D1 total discharge current (10/350 $\mu$ s) cores-PE	$I_{Total}$	1.00 kA
C2 nominal discharge current (8/20 $\mu$ s) per core	$I_n$	5.00 kA
C2 total discharge current (8/20 $\mu$ s) cores-PE	$I_{Total}$	10.00 kA
C2 voltage protection level mode core-PE at $I_n$	$U_p$	350.00 V
C2 voltage protection level mode core-core at $I_n$	$U_p$	50.00 V
C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s	$U_p$	500.00 V
C3 voltage protection level mode core-core at 1 kV/ $\mu$ s	$U_p$	45.00 V
Response time core-core	$t_a$	1 ns
Response time core-PE	$t_a$	100 ns
Connection (input - output)	screwless terminals/screwless terminals	
Cross-section of connected conductors solid (min)	0.08 mm <sup>2</sup>	
Cross-section of connected conductors solid (max)	4.00 mm <sup>2</sup>	
Cross-section of connected conductors stranded (min)	0.08 mm <sup>2</sup>	
Cross-section of connected conductors stranded (max)	2.50 mm <sup>2</sup>	
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	EC001625	
Customs tariff number	85363010	
EAN	8595090560623	
Order number	A06062	