

# DM-048/1-RB

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

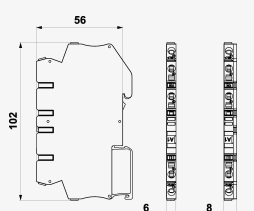
Surge protection for 2-core signalling networks

coupling impedance (resistance), screwless terminals

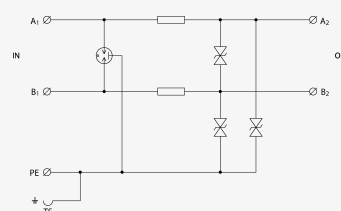
- coarse and fine surge protection for 2-core signalling networks
- installation close to protected equipment
- for protection of communication interfaces, mainly the RS-485 lines, of I&C, electronic security and fire detection systems, etc. against impact of surge voltage
- coarse and fine surge protection in differential mode (core – core) and 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	$U_n$ 48 V DC
Maximum operating voltage	$U_c$ 36.00 V AC
Maximum operating voltage	$U_c$ 51.00 V DC
Nominal load current	$I_L$ 0.500 A
Threshold frequency core-core	$f$ 5.00 MHz
Serial resistance per core	$R$ 1.60 $\Omega$
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 $I_n$	$U_p$	95 V
C2 voltage protection level mode core-core at $I_n$	$U_p$	80 V
C3 voltage protection level mode core-PE at 1 kV/ $\mu$ s	$U_p$	65 V
C3 voltage protection level mode core-core at 1 kV/ $\mu$ s	$U_p$	65 V
Response time core-core	$t_a$	1 ns
Response time core-PE	$t_a$	1 ns
Connection (input - output)	<b>screwless terminals/screwless terminals</b>	
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	<b>EN 61643-21+A1,A2:2013, IEC 61643-21+A1,A2:2012</b>	
ETIM Class	<b>EC001625</b>	
Customs tariff number	<b>85363010</b>	
EAN	<b>8595090560609</b>	
Order number	<b>A06060</b>	