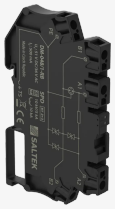
DM-048/1-RB

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

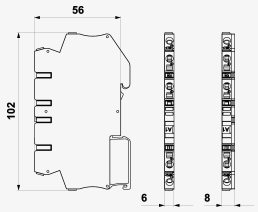
Surge protection for 2-core signalling networks

coupling impedance (resistance), screwless terminals

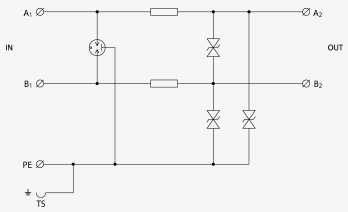
- coarse and fine surge protection for 2-core signalling networks
- installation close to protected equipment
- for protection of communication interfaces, mainly the RS-485 lines, of I&C, electronic security and fire detection systems, etc. against impact of surge voltage
- coarse and fine surge protection 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	48.00 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
Treshold frequency core-core	f	5.00 MHz
Serial resistance per core	R	2.20 Ω
D1 impulse discharge current (10/350 µs) per core	I_{imp}	0.50 kA

D1 total discharge current (10/350 µs) cores-PE	I_{Total}	1.00 kA
C2 nominal discharge current (8/20 µs) per core	I_n	5.00 kA
C2 total discharge current (8/20 µs) cores-PE	I_{Total}	10.00 kA
C2 voltage protection level mode core-PE at In	U_p	95.00 V
C2 voltage protection level mode core-core at In	U_p	80.00 V
C3 voltage protection level mode core-PE at 1 kV/µs	U_p	65.00 V
C3 voltage protection level mode core-core at 1 kV/µs	U_p	65.00 V
Response time core-core	t_a	1 ns
Response time core-PE	t_a	1 ns
Connection (input - output)		screwless terminals/screwless terminals
Cross-section of connected conductors solid (min)		0.08 mm^2
Cross-section of connected conductors solid (max)		4.00 mm^2
Cross-section of connected conductors stranded (min)		0.08 mm^2
Cross-section of connected conductors stranded (max)		2.50 mm^2
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		8595090560609
Order number		A06060