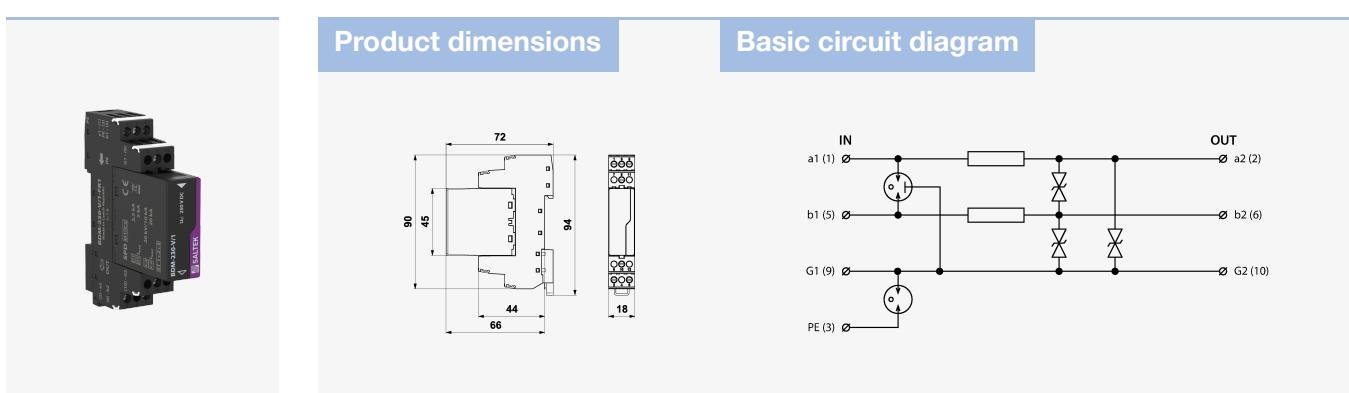


# BDM-230-V/1-FR1

## SPD - for data, signalling and telecommunications lines / I&C / ST1+2+3 (BDM, BDG) - plugable

Lightning current arrester with coarse and fine surge protection for 2-core signalling lines pluggable module, coupling impedance ( $R$  – resistance), line separated from protective earth via GDT

- lightning current arrester with coarse and fine surge protection for 2-core signalling lines
- installation at the boundary of LPZ 0 and LPZ 1 zones or higher, at the line entry into building and also installation close to protected device
- for protection of telecommunication lines (version BDM-230) and 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 (core – core, GND) in differential mode and coarse surge protection in common mode (line – PE)



Parameter name	Parameter value
Type of SPD	D1,C2
Location of SPD	ST 1+2+3
Mounting	DIN rail 35 mm
Nominal voltage $U_n$	230 V DC
Maximum operating voltage $U_c$	177.00 V AC
Maximum operating voltage $U_c$	250.00 V DC
Nominal load current $I_L$	1.000 A
Threshold frequency core-core $f$	11.00 MHz
Serial resistance per core $R$	1.60 Ω

D1 impulse discharge current (10/350 µs) per core	$I_{imp}$	2.50 kA
D1 total discharge current (10/350 µs) cores-PE	$I_{Total}$	5.00 kA
C2 nominal discharge current (8/20 µs) GND-PE	$I_n$	10.00 kA
C2 nominal discharge current (8/20 µs) per core	$I_n$	10.00 kA
C2 total discharge current (8/20 µs) cores-PE	$I_{Total}$	20.00 kA
C3 nominal discharge current (10/1000 µs) core-PE	$I_{SM}$	10 A
C3 nominal discharge current (10/1000 µs) core-core	$I_{SM}$	10 A
C3 voltage protection level mode GND-PE at 1 kV/µs	$U_p$	550.00 V
C3 voltage protection level mode core-GND at 1 kV/µs	$U_p$	350.00 V
C3 voltage protection level mode core-core at 1 kV/µs	$U_p$	350 V
Response time core-core	$t_a$	1 ns
Response time core-GND	$t_a$	1 ns
Response time GND-PE	$t_a$	100 ns
Connection (input - output)		terminals-terminals
Cross-section of connected conductors solid (min)		0.14 mm <sup>2</sup>
Cross-section of connected conductors solid (max)		4.00 mm <sup>2</sup>
Cross-section of connected conductors stranded (min)		0.14 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
Plug module		BDM-230-V/1-0
Customs tariff number		85363010
EAN		8595090564614
Order number		A06461

