

Category IEC / EN:	Type 1+2 surge protection device (SPD)
Location of use:	Main distribution boards
Connections:	TN-S and TT
Protection modes:	L-N, N-PE
Impulse current discharge rating :	I_{imp}: 12,5 kA / 50kA
Complies with:	EN 61643-11, IEC 61643-11
Pluggable module	
Remote signaling (option)	
Optimized to TOV	

Technical data: B PRO 12.5/275 1+1 & B PRO 12,5/275 1+1-R (with remote contact)				
Protection mode		L-N		N-PE
System nominal voltage(AC)	U_n	230/400 V(50/60 Hz)		
Max.continuos voltage (AC)	U_c	275 Vac		255 Vac
Impulse discharge current (10/350)	I_{imp}	12,5 kA		50 kA
Specific energy	W/R	39 kJ / Ω		625 kJ / Ω
Charge	Q	6.25As		25 As
Nominal discharge current (8/20)	I_n		20 kA	
Max.discharge current	I_{max}		50 kA	
Voltage protection level at In	U_p	1,5 kV		1,5 kV
Voltage protection level at 5kA	U_{res}	1 kV		1,5 kV
Response time	t_a	< 25 ns		< 100 ns
Temporay overvoltage 5 sec.	U_{TOV}	335 V- whitstand		
Temporary overvoltage 120 min.	U_{TOV}	440 V-safe failure		
Temporary overvoltage 1200 V for 200 ms.	U_{tov}			whitstand
Short circuit whitstand capability with max.overcurrent protection	I_{SCCR}	50 kA rms		
Max.overcurrent protection		160 AgG		
Max.overcurrent protection with V connection		63 AgG		
Follow current extinguishing capability	I_{fi}			100 A
Operating temperature range	T_u	-40 °C ... +80 °C		
Operating state / fault indication		green / red		
Number of ports		1		
Mechnical characteristics				
Min.cross section for terminals	mm²	1,5 mm² solid wire		
Max.cross section for terminals	mm²	25 mm² flex. Wire/35 mm² solid wire		
Mounting		indoor/35 mm DIN rails acc. to EN 60715		
Enclousure material/flammability rate		thermoplastic, gray, UL 94 V-0		
Degree of protection		IP 20		
Type of remote signalling contact		changeover contact		
Switching capacity (a.c.)		250 V / 0.5 A		
Switching capacity (d.c.)		250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A		

Order informations	Order Code	Weight
B PRO 12,5/275 1+1	600041	252 g
B PRO 12,5/275 1+1-R (with remote contact)	600042	257 g
B PRO 12,5/275-M (module)	600033	105 g
B PRO N-PE 255-M (module)	600034	43 g



