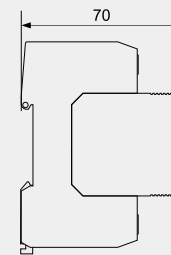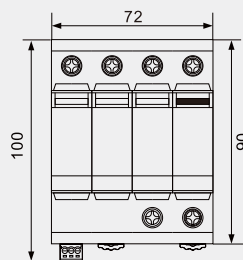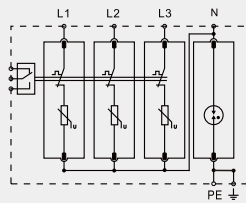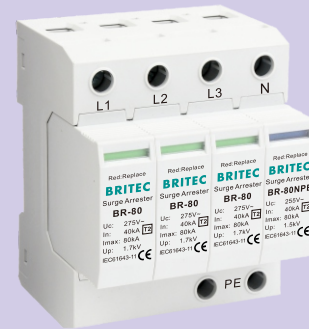## BR-80 3+1

Type 2 Surge Arrester

■ BR-80 3+1 surge arrester is suitable for TT and TN-S system.

		BR-80 150 3+1	BR-80 275 3+1	BR-80 320 3+1	BR-80 385 3+1
SPD classification according to EN61643–11		Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643–11		Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N]	U_c	150V	275V	320V	385V
Max. continuous operating a.c. voltage [N-PE]	U_c	255V	255V	255V	255V
Nominal discharge current (8/20μs)	I_n	40kA	40kA	40kA	40kA
Max. discharge current (8/20μs)	I_{max}	80kA	80kA	80kA	80kA
Voltage protection level [L-N]	U_p	≤1.0kV	≤1.7kV	≤2.0kV	≤2.3kV
Voltage protection level 5kA [L-N]	U_p	≤0.5kV	≤0.9kV	≤1.1kV	≤1.3kV
Voltage protection level [N-PE]	U_p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity	I_{SCCR}	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N]	U_T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure [L-N]	U_T	250V/120min.	440V/120min.	550V/120min.	660V/120min.
Temporary overvoltage TOV-withstand [N-PE]	U_T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE]	I_{fi}	100Arms	100Arms	100Arms	100Arms
Max. backup fuse		200A gG	200A gG	200A gG	200A gG
Leakage current	I_{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N]	t_A	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE]	t_A	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range	T_u	−40℃−80℃	−40℃−80℃	−40℃−80℃	−40℃−80℃
Operating state/fault indication		green/red	green/red	green/red	green/red
Cross–section area (Min.)		4 mm^2	4 mm^2	4 mm^2	4 mm^2
Cross–section area (Max.)		35mm^2	35mm^2	35mm^2	35mm^2
For mounting on		35mm Din rail			
Enclosure material		Thermoplastic UL94-V0			
Degree of protection		IP20	IP20	IP20	IP20
Order Code		B18292	B18294	B18296	B18298
Order Code (With remote signaling)		B18293	B18295	B18297	B18888

Surge Arrester

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