



Red:Replace
BRITEC
Surge Arrester
BR-40
Uc: 275V~
In: 20kA **T2**
Imax: 40kA
Up: 1.3kV
IEC61643-11 **CE**

Red:Replace
BRITEC
Surge Arrester
BR-40
Uc: 275V~
In: 20kA **T2**
Imax: 40kA
Up: 1.3kV
IEC61643-11 **CE**

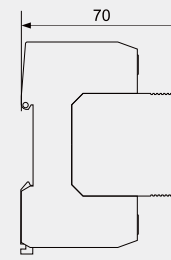
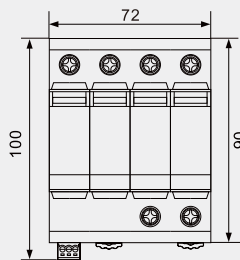
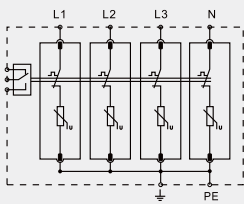
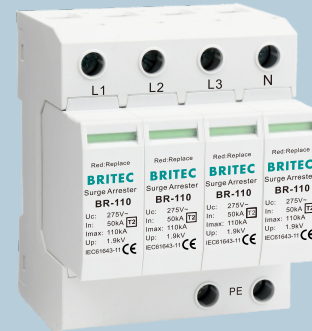
Red:Replace
BRITEC
Surge Arrester
BR-40
Uc: 275V~
In: 20kA **T2**
Imax: 40kA
Up: 1.3kV
IEC61643-11 **CE**

Red:Replace
BRITEC
Surge Arrester
BR-40
Uc: 275V~
In: 20kA **T2**
Imax: 40kA
Up: 1.3kV
IEC61643-11 **CE**

Type 2 Surge Arrester

BR-110 4P

Type 2 Surge Arrester

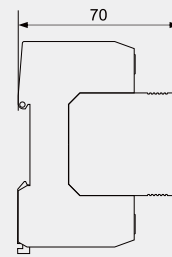
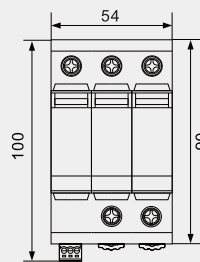
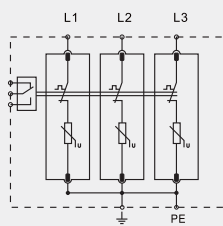


BR-110 4pole surge arrester is suitable for TN-S system.

	BR-110 275 4P	BR-110 320 4P	BR-110 385 4P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II
Max. continuous operating a.c. voltage U_c	275V	320V	385V
Nominal discharge current (8/20 μ s) I_n	50kA	50kA	50kA
Max. discharge current (8/20 μ s) I_{max}	110kA	110kA	110kA
Voltage protection level U_p	$\leq 1.9kV$	$\leq 2.0kV$	$\leq 2.5kV$
Voltage protection level 5kA U_p	$\leq 0.6kV$	$\leq 1kV$	$\leq 1.2kV$
Max. backup fuse	250A gG	250A gG	250A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand U_T	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure U_T	440V/120min.	550V/120min.	660V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$
Operating state/fault indication	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	35mm ²	35mm ²
For mounting on	35mm Din rail		
Enclosure material	Thermoplastic UL94-V0		
Degree of protection	IP20	IP20	IP20
Order Code	B18823	B18825	B18827
Order Code (With remote signaling)	B18824	B18826	B18828

BR-110 3P

Type 2 Surge Arrester

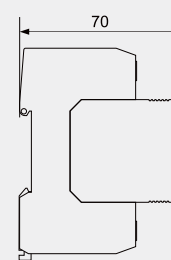
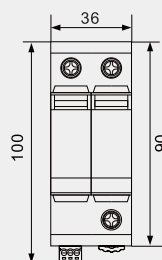
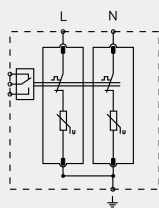
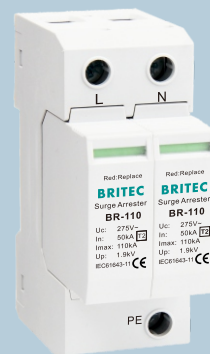


■ BR-110 3pole surge arrester is suitable for TN-C system.

		BR-110 275 3P	BR-110 320 3P	BR-110 385 3P
SPD classification according to EN61643-11		Type 2	Type 2	Type 2
SPD classification according to IEC61643-11		Class II	Class II	Class II
Max. continuous operating a.c. voltage	U _c	275V	320V	385V
Nominal discharge current (8/20μs)	I _n	50kA	50kA	50kA
Max. discharge current (8/20μs)	I _{max}	110kA	110kA	110kA
Voltage protection level	U _p	≤1.9kV	≤2.0kV	≤2.5kV
Voltage protection level 5kA	U _p	≤0.6kV	≤1kV	≤1.2kV
Max. backup fuse		250A gG	250A gG	250A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure	U _T	440V/120min.	550V/120min.	660V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	35mm ²	35mm ²
For mounting on		35mm Din rail		
Enclosure material		Thermoplastic UL94-V0		
Degree of protection		IP20	IP20	IP20
Order Code		B18833	B18835	B18837
Order Code (With remote signaling)		B18834	B18836	B18838

BR-110 2P

Type 2 Surge Arrester

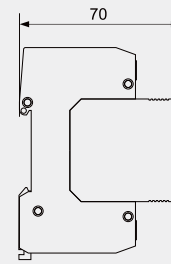
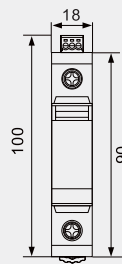
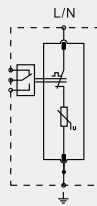


■ BR-110 2pole surge arrester is suitable for TN-S system.

	BR-110 275 2P	BR-110 320 2P	BR-110 385 2P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II
Max. continuous operating a.c. voltage	Uc	275V	320V
Nominal discharge current (8/20μs)	In	50kA	50kA
Max. discharge current (8/20μs)	I _{max}	110kA	110kA
Voltage protection level	Up	≤1.9kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV
Max. backup fuse		250A gG	250A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure	U _T	440V/120min.	550V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	35mm ²
For mounting on	35mm Din rail		
Enclosure material	Thermoplastic UL94-V0		
Degree of protection	IP20	IP20	IP20
Order Code	B18843	B18845	B18847
Order Code (With remote signaling)	B18844	B18846	B18848

BR-110 1P

Type 2 Surge Arrester

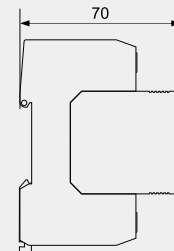
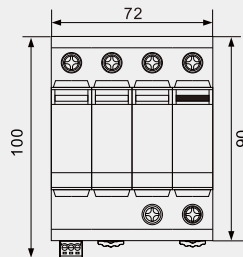
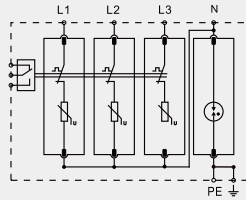
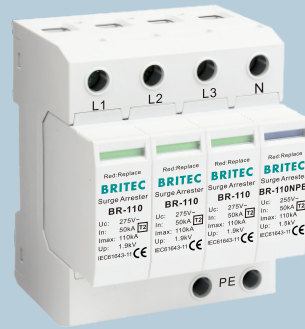


■ BR-110 1pole can form 1-4 poles.

		BR-110 275 1P	BR-110 320 1P	BR-110 385 1P
SPD classification according to EN61643-11		Type 2	Type 2	Type 2
SPD classification according to IEC61643-11		Class II	Class II	Class II
Max. continuous operating a.c. voltage	Uc	275V	320V	385V
Nominal discharge current (8/20μs)	In	50kA	50kA	50kA
Max. discharge current (8/20μs)	Imax	110kA	110kA	110kA
Voltage protection level	Up	≤1.9kV	≤2.0kV	≤2.5kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV
Max. backup fuse		250A gG	250A gG	250A gG
Short-circuit withstand capacity	ISCCR	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure	UT	440V/120min.	550V/120min.	660V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	35mm ²	35mm ²
For mounting on		35mm Din rail		
Enclosure material		Thermoplastic UL94-V0		
Degree of protection		IP20	IP20	IP20
Order Code		B18853	B18855	B18857
Order Code (With remote signaling)		B18854	B18856	B18858

BR-110 3+1

Type 2 Surge Arrester

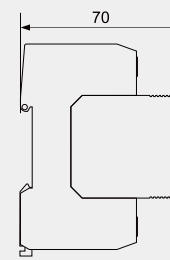
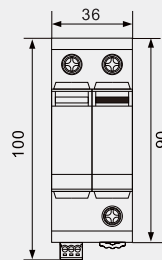
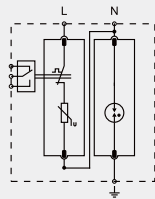


BR-110 3+1 surge arrester is suitable for TT and TN-S system.

	BR-110 275 3+1	BR-110 320 3+1	BR-110 385 3+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	275V	320V	385V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V
Nominal discharge current (8/20μs) I _n	50kA	50kA	50kA
Max. discharge current (8/20μs) I _{max}	110kA	110kA	110kA
Voltage protection level [L-N] U _p	≤1.9kV	≤2.0kV	≤2.5kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	440V/120min.	550V/120min.	660V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/5sec.	1200V/5sec.	1200V/5sec.
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms
Max. backup fuse	250A gG	250A gG	250A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	35mm ²	35mm ²
For mounting on	35mm Din rail		
Enclosure material	Thermoplastic UL94-V0		
Degree of protection	IP20	IP20	IP20
Order Code	B18863	B18865	B18867
Order Code (With remote signaling)	B18864	B18866	B18868

BR-110 1+1

Type 2 Surge Arrester

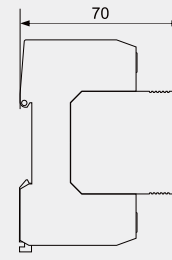
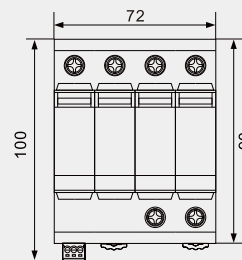
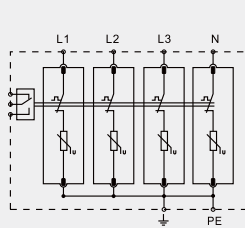
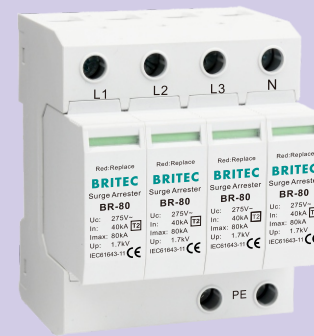


BR-110 1+1 surge arrester is suitable for TT and TN-S system.

	BR-110 275 1+1	BR-110 320 1+1	BR-110 385 1+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	275V	320V	385V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V
Nominal discharge current (8/20μs) I _n	50kA	50kA	50kA
Max. discharge current (8/20μs) I _{max}	110kA	110kA	110kA
Voltage protection level [L-N] U _p	≤1.9kV	≤2.0kV	≤2.5kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	440V/120min.	550V/120min.	660V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/5sec.	1200V/5sec.	1200V/5sec.
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms
Max. backup fuse	250A gG	250A gG	250A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	35mm ²	35mm ²
For mounting on	35mm Din rail		
Enclosure material	Thermoplastic UL94-V0		
Degree of protection	IP20	IP20	IP20
Order Code	B18873	B18875	B18877
Order Code (With remote signaling)	B18874	B18876	B18878

BR-80 4P

Type 2 Surge Arrester

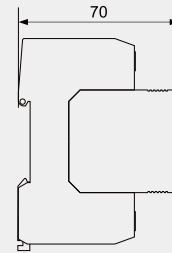
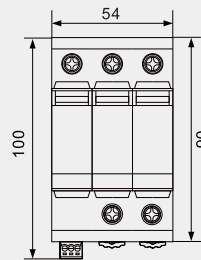
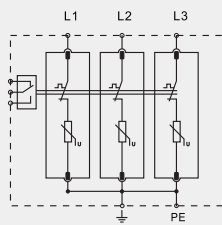


■ BR-80 4 pole surge arrester is suitable for TN-S system.

	BR-80 150 4P	BR-80 275 4P	BR-80 320 4P	BR-80 385 4P
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	Uc	150V	275V	320V
Nominal discharge current (8/20μs)	In	40kA	40kA	40kA
Max. discharge current (8/20μs)	I _{max}	80kA	80kA	80kA
Voltage protection level	Up	≤1.0kV	≤1.7kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.9kV	≤1.1kV
Max. backup fuse		200A gG	200A gG	200A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		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	B18260	B18262	B18264	B18266
Order Code (With remote signaling)	B18261	B18263	B18265	B18267

BR-80 3P

Type 2 Surge Arrester

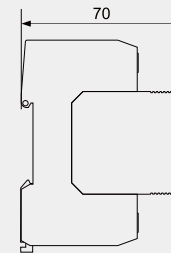
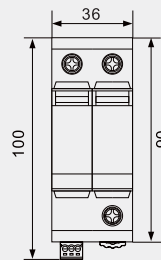
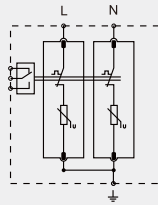
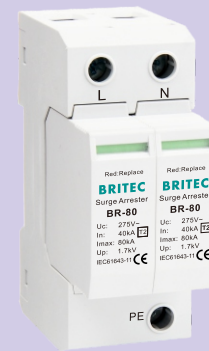


■ BR-80 3 pole surge arrester is suitable for TN-C system.

	BR-80 150 3P	BR-80 275 3P	BR-80 320 3P	BR-80 385 3P
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	Uc	150V	275V	320V
Nominal discharge current (8/20μs)	In	40kA	40kA	40kA
Max. discharge current (8/20μs)	I _{max}	80kA	80kA	80kA
Voltage protection level	Up	≤1.0kV	≤1.7kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.9kV	≤1.1kV
Max. backup fuse		200A gG	200A gG	200A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		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	B18268	B18270	B18272	B18274
Order Code (With remote signaling)	B18269	B18271	B18273	B18275

BR-80 2P

Type 2 Surge Arrester

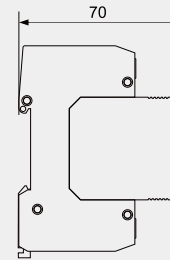
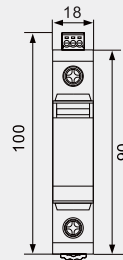
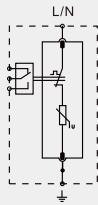


■ BR-80 2 pole surge arrester is suitable for TN-S system.

	BR-80 150 2P	BR-80 275 2P	BR-80 320 2P	BR-80 385 2P
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	Uc	150V	275V	320V
Nominal discharge current (8/20μs)	In	40kA	40kA	40kA
Max. discharge current (8/20μs)	Imax	80kA	80kA	80kA
Voltage protection level	Up	≤1.0kV	≤1.7kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.9kV	≤1.1kV
Max. backup fuse		200A gG	200A gG	200A gG
Short-circuit withstand capacity	ISCCR	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		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	B18276	B18278	B18280	B18282
Order Code (With remote signaling)	B18277	B18279	B18281	B18283

BR-80 1P

Type 2 Surge Arrester

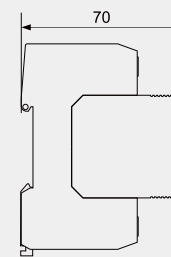
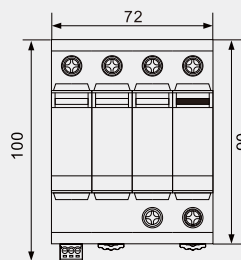
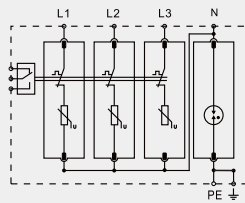


BR-80 1P can be used to build 2P, 3P and 4P surge arresters.

		BR-80 150 1P	BR-80 275 1P	BR-80 320 1P	BR-80 385 1P
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	Uc	150V	275V	320V	385V
Nominal discharge current (8/20µs)	In	40kA	40kA	40kA	40kA
Max. discharge current (8/20µs)	I _{max}	80kA	80kA	80kA	80kA
Voltage protection level	Up	≤1.0kV	≤1.7kV	≤2.0kV	≤2.3kV
Voltage protection level 5kA	Up	≤0.5kV	≤0.9kV	≤1.1kV	≤1.3kV
Max. backup fuse		200A gG	200A gG	200A gG	200A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
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		B18284	B18286	B18288	B18290
Order Code (With remote signaling)		B18285	B18287	B18289	B18291

BR-80 3+1

Type 2 Surge Arrester

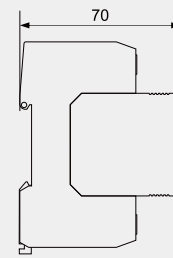
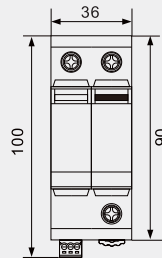
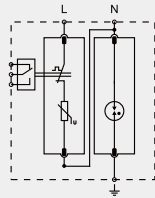


■ BR-80 3+1 surge arrester is suitable for TT and TN-S system.

	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] Uc	150V	275V	320V	385V
Max. continuous operating a.c. voltage [N-PE] Uc	255V	255V	255V	255V
Nominal discharge current (8/20μs) In	40kA	40kA	40kA	40kA
Max. discharge current (8/20μs) Imax	80kA	80kA	80kA	80kA
Voltage protection level [L-N] Up	≤1.0kV	≤1.7kV	≤2.0kV	≤2.3kV
Voltage protection level 5kA [L-N] Up	≤0.5kV	≤0.9kV	≤1.1kV	≤1.3kV
Voltage protection level [N-PE] Up	≤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/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.
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°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
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

BR-80 1+1

Type 2 Surge Arrester

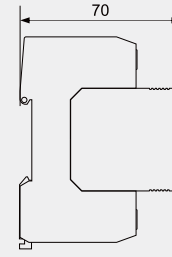
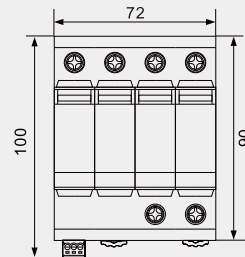
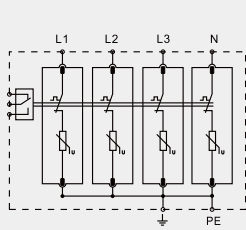
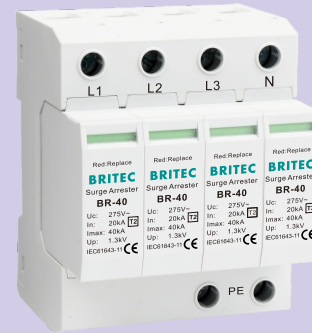


■ BR-80 1+1 surge arrester is suitable for TT and TN-S system.

	BR-80 150 1+1	BR-80 275 1+1	BR-80 320 1+1	BR-80 385 1+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/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.
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°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
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	B18360	B18362	B18364	B18366
Order Code (With remote signaling)	B18361	B18363	B18365	B18367

BR-40 4P

Type 2 Surge Arrester

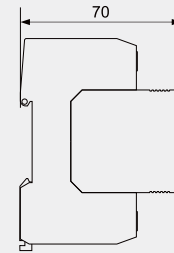
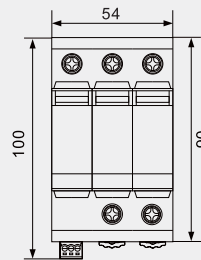
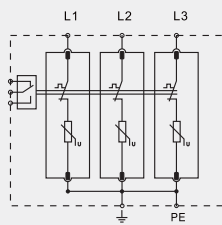


■ BR-40 4 pole surge arrester is suitable for TN-S system.

	BR-40 150 4P	BR-40 275 4P	BR-40 320 4P	BR-40 385 4P	BR-40 440 4P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	440V	
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	
Max. discharge current (8/20μs)	Imax	40kA	40kA	40kA	40kA	
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B18401	B18403	B18405	B18407	B18409
Order Code (With remote signaling)		B18402	B18404	B18406	B18408	B18410

BR-40 3P

Type 2 Surge Arrester

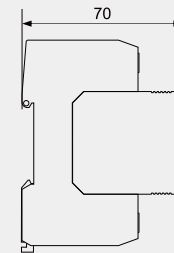
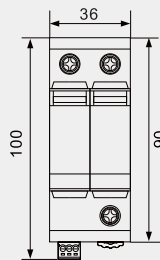
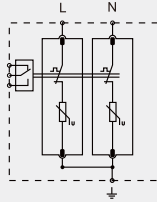


■ BR-40 3 pole surge arrester is suitable for TN-S system.

	BR-40 150 3P	BR-40 275 3P	BR-40 320 3P	BR-40 385 3P	BR-40 440 3P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs)	I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	I _{scCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B18301	B18303	B18305	B18307	B18309	
Order Code (With remote signaling)	B18302	B18304	B18306	B18308	B18310	

BR-40 2P

Type 2 Surge Arrester

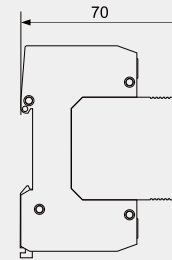
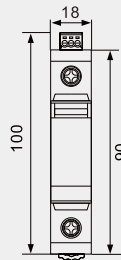
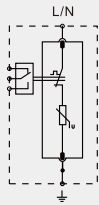


BR-40 2 pole surge arrester is suitable for TN-S system.

	BR-40 150 2P	BR-40 275 2P	BR-40 320 2P	BR-40 385 2P	BR-40 440 2P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V	385V	440V
Nominal discharge current (8/20 μ s) I_n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20 μ s) I_{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level U_p	$\leq 0.8kV$	$\leq 1.3kV$	$\leq 1.5kV$	$\leq 1.8kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 0.6kV$	$\leq 1kV$	$\leq 1.2kV$	$\leq 1.4kV$	$\leq 1.6kV$
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand U_T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure U_T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18201	B18203	B18205	B18207	B18209
Order Code (With remote signaling)	B18202	B18204	B18206	B18208	B18210

BR-40 1P

Type 2 Surge Arrester

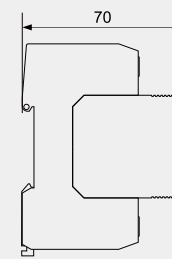
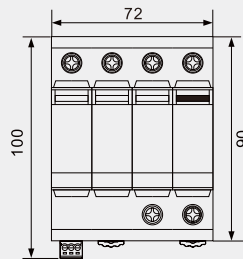
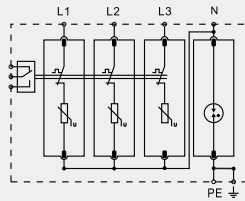


■ BR-40 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-40 150 1P	BR-40 275 1P	BR-40 320 1P	BR-40 385 1P	BR-40 440 1P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs)	Imax	40kA	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B18101	B18103	B18105	B18107	B18109	
Order Code (With remote signaling)	B18102	B18104	B18106	B18108	B18110	

BR-40 3+1

Type 2 Surge Arrester

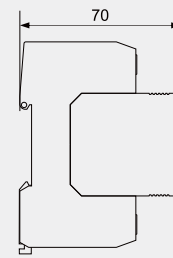
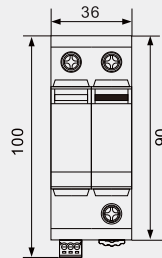
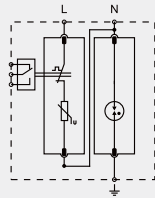


BR-40 3+1 surge arrester is suitable for TT and TN-S system.

	BR-40 150 3+1	BR-40 275 3+1	BR-40 320 3+1	BR-40 385 3+1	BR-40 440 3+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs) I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18451	B18453	B18455	B18457	B18249
Order Code (With remote signaling)	B18452	B18454	B18456	B18458	B18250

BR-40 1+1

Type 2 Surge Arrester

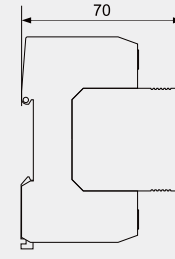
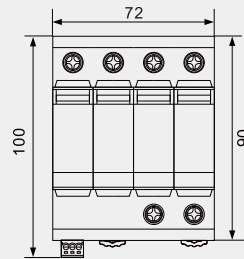
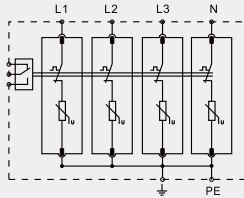
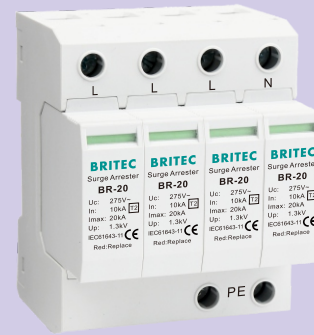


■ BR-40 1+1 surge arrester is suitable for TT and TN-S system.

	BR-40 150 1+1	BR-40 275 1+1	BR-40 320 1+1	BR-40 385 1+1	BR-40 440 1+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs) I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18251	B18253	B18255	B18257	B18370
Order Code (With remote signaling)	B18252	B18254	B18256	B18258	B18371

BR-20 4P

Type 2 Surge Arrester

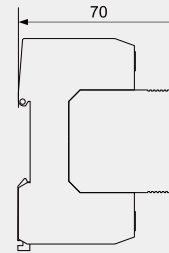
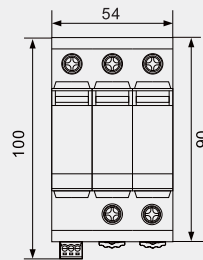
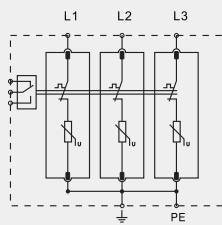
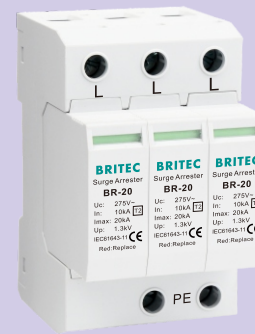


BR-20 4 pole surge arrester is suitable for TN-S system.

	BR-20 150 4P	BR-20 275 4P	BR-20 320 4P	BR-20 385 4P	BR-20 440 4P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	440V	
Nominal discharge current (8/20μs)	In	10kA	10kA	10kA	10kA	
Max. discharge current (8/20μs)	I _{max}	20kA	20kA	20kA	20kA	
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		63A gG	63A gG	63A gG	63A gG	63A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B18701	B18703	B18705	B18707	B18709	
Order Code (With remote signaling)	B18702	B18704	B18706	B18708	B18710	

BR-20 3P

Type 2 Surge Arrester

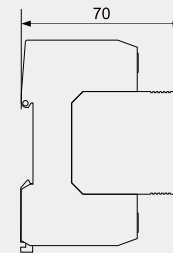
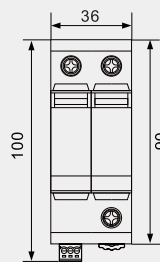
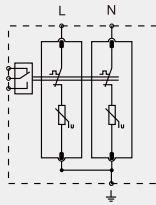
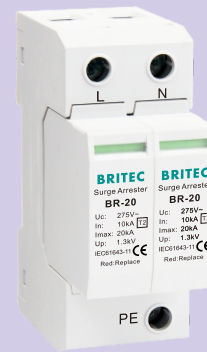


■ BR-20 3 pole surge arrester is suitable for TN-C system.

		BR-20 150 3P	BR-20 275 3P	BR-20 320 3P	BR-20 385 3P	BR-20 440 3P
SPD classification according to EN61643-11		Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11		Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	10kA	10kA	10kA	10kA	10kA
Max. discharge current (8/20μs)	I _{max}	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		63A gG	63A gG	63A gG	63A gG	63A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B18711	B18713	B18715	B18717	B18719
Order Code (With remote signaling)		B18712	B18714	B18716	B18718	B18720

BR-20 2P

Type 2 Surge Arrester

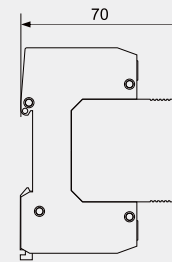
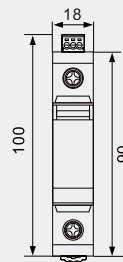
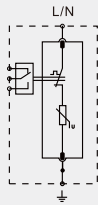


■ BR-20 2 pole surge arrester is suitable for TN-S system.

	BR-20 150 2P	BR-20 275 2P	BR-20 320 2P	BR-20 385 2P	BR-20 440 2P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V	385V	440V
Nominal discharge current (8/20 μ s) I_n	10kA	10kA	10kA	10kA	10kA
Max. discharge current (8/20 μ s) I_{max}	20kA	20kA	20kA	20kA	20kA
Voltage protection level U_p	$\leq 0.8kV$	$\leq 1.3kV$	$\leq 1.5kV$	$\leq 1.8kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 0.6kV$	$\leq 1kV$	$\leq 1.2kV$	$\leq 1.4kV$	$\leq 1.6kV$
Max. backup fuse	63A gG	63A gG	63A gG	63A gG	63A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand U_T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure U_T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^\circ C - 80^\circ C$	$-40^\circ C - 80^\circ C$	$-40^\circ C - 80^\circ C$	$-40^\circ C - 80^\circ C$	$-40^\circ C - 80^\circ C$
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18721	B18723	B18725	B18727	B18729
Order Code (With remote signaling)	B18722	B18724	B18726	B18728	B18730

BR-20 1P

Type 2 Surge Arrester

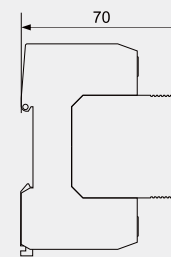
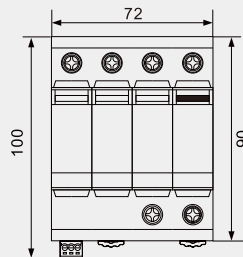
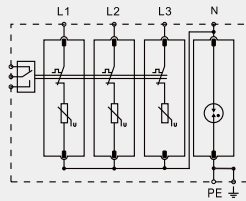
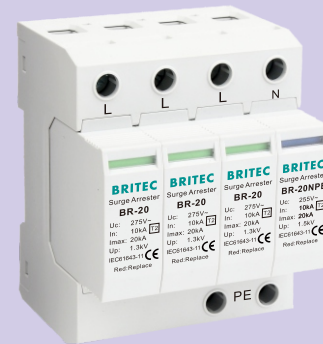


■ BR-20 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-20 150 1P	BR-20 275 1P	BR-20 320 1P	BR-20 385 1P	BR-20 440 1P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	10kA	10kA	10kA	10kA	10kA
Max. discharge current (8/20μs)	Imax	20kA	20kA	20kA	20kA	20kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		63A gG	63A gG	63A gG	63A gG	63A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B18731	B18733	B18735	B18737	B18739	
Order Code (With remote signaling)	B18732	B18734	B18736	B18738	B18740	

BR-20 3+1

Type 2 Surge Arrester

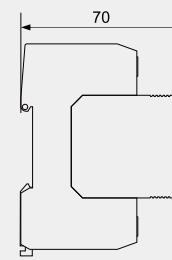
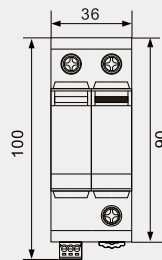
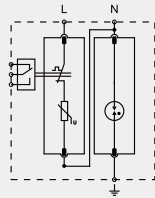


BR-20 3+1 surge arrester is suitable for TT and TN-S system.

	BR-20 150 3+1	BR-20 275 3+1	BR-20 320 3+1	BR-20 385 3+1	BR-20 440 3+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	10kA	10kA	10kA	10kA	10kA
Max. discharge current (8/20μs) I _{max}	20kA	20kA	20kA	20kA	20kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	63A gG	63A gG	63A gG	63A gG	63A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18741	B18743	B18745	B18747	B18749
Order Code (With remote signaling)	B18742	B18744	B18746	B18748	B18750

BR-20 1+1

Type 2 Surge Arrester

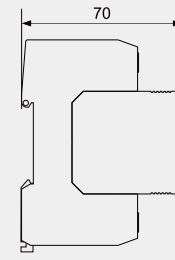
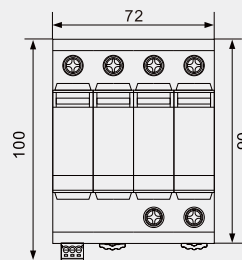
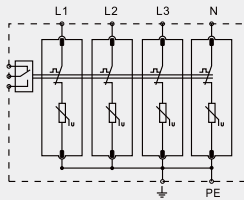
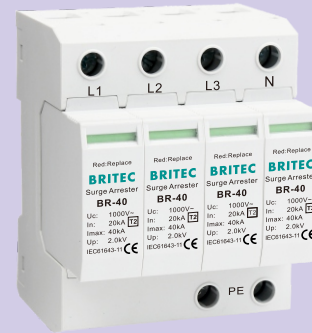


■ BR-20 1+1 surge arrester is suitable for TT and TN-S system.

	BR-20 150 1+1	BR-20 275 1+1	BR-20 320 1+1	BR-20 385 1+1	BR-20 440 1+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	10kA	10kA	10kA	10kA	10kA
Max. discharge current (8/20μs) I _{max}	20kA	20kA	20kA	20kA	20kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.	1200V/5sec.
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	63A gG	63A gG	63A gG	63A gG	63A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B18751	B18753	B18755	B18757	B18759
Order Code (With remote signaling)	B18752	B18754	B18756	B18758	B18760

BR-40 4P

Type 2 Surge Arrester

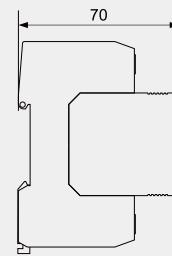
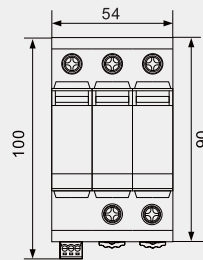
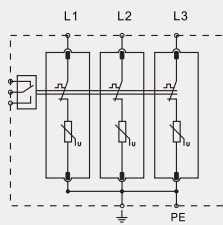


■ BR-40 4 pole surge arrester is suitable for TN-S system.

	BR-40 690 4P	BR-40 1000 4P
SPD classification according to EN61643-11	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II
Max. continuous operating a.c. voltage	Uc	690V
Nominal discharge current (8/20μs)	In	20kA
Max. discharge current (8/20μs)	Imax	40kA
Voltage protection level	Up	≤2.0kV
Voltage protection level 5kA	Up	≤1.6kV
Max. backup fuse		125A gG
Short-circuit withstand capacity	IscCR	25kA
Temporary overvoltage TOV-withstand	UT	880V/5sec.
Temporary overvoltage TOV-safe failure	UT	1100V/120min.
Leakage current	IPE	<0.1mA
Response time	tA	≤25ns
Operating temperature range	Tu	-40°C-80°C
Operating state/fault indication		green/red
Cross-section area (Min.)		4 mm ²
Cross-section area (Max.)		35mm ²
For mounting on	35mm Din rail	
Enclosure material	Thermoplastic UL94-V0	
Degree of protection	IP20	IP20
Order Code	B18036	B18052
Order Code (With remote signaling)	B18037	B18053

BR-40 3P

Type 2 Surge Arrester

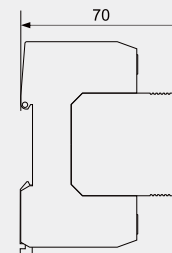
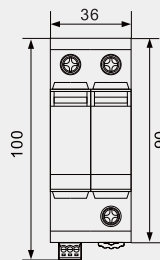
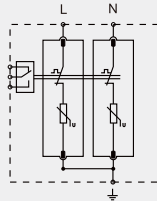


■ BR-40 3 pole surge arrester is suitable for TN-S system.

		BR-40 690 3P	BR-40 1000 3P
SPD classification according to EN61643-11		Type 2	Type 2
SPD classification according to IEC61643-11		Class II	Class II
Max. continuous operating a.c. voltage	Uc	690V	1000V
Nominal discharge current (8/20μs)	In	20kA	20kA
Max. discharge current (8/20μs)	I _{max}	40kA	40kA
Voltage protection level	Up	≤2.0kV	≤2.0kV
Voltage protection level 5kA	Up	≤1.6kV	≤1.6kV
Max. backup fuse		125A gG	125A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	880V/5sec.	1300V/5sec.
Temporary overvoltage TOV-safe failure	U _T	1100V/120min.	1700V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	35mm ²
For mounting on		35mm Din rail	
Enclosure material		Thermoplastic UL94-V0	
Degree of protection		IP20	IP20
Order Code		B18034	B18050
Order Code (With remote signaling)		B18035	B18051

BR-40 2P

Type 2 Surge Arrester

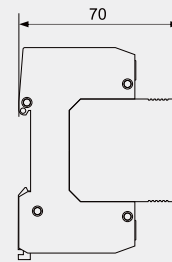
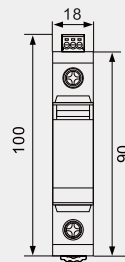
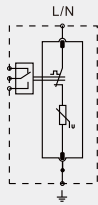


■ BR-40 2 pole surge arrester is suitable for TN-S system.

	BR-40 690 2P	BR-40 1000 2P
SPD classification according to EN61643-11	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II
Max. continuous operating a.c. voltage U_c	690V	1000V
Nominal discharge current (8/20 μ s) I_n	20kA	20kA
Max. discharge current (8/20 μ s) I_{max}	40kA	40kA
Voltage protection level U_p	$\leq 2.0kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 1.6kV$	$\leq 1.6kV$
Max. backup fuse	125A gG	125A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA
Temporary overvoltage TOV-withstand U_T	880V/5sec.	1300V/5sec.
Temporary overvoltage TOV-safe failure U_T	1100V/120min.	1700V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$
Operating state/fault indication	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	35mm ²
For mounting on	35mm Din rail	
Enclosure material	Thermoplastic UL94-V0	
Degree of protection	IP20	IP20
Order Code	B18032	B18048
Order Code (With remote signaling)	B18033	B18049

BR-40 1P

Type 2 Surge Arrester

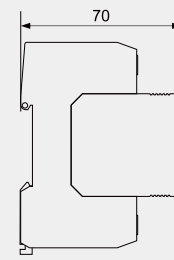
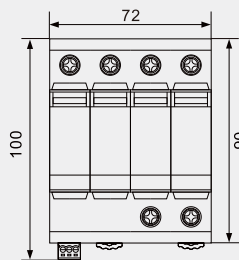
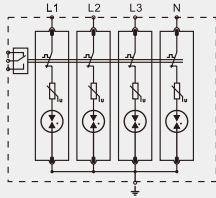
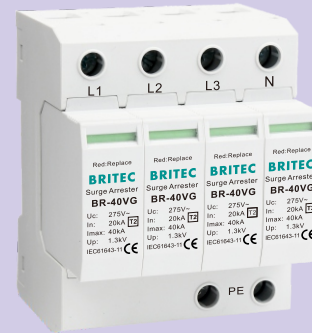


■ BR-40 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-40 690 1P	BR-40 1000 1P
SPD classification according to EN61643-11	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II
Max. continuous operating a.c. voltage U_c	690V	1000V
Nominal discharge current (8/20 μ s) I_n	20kA	20kA
Max. discharge current (8/20 μ s) I_{max}	40kA	40kA
Voltage protection level U_p	$\leq 2.0kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 1.6kV$	$\leq 1.6kV$
Max. backup fuse	125A gG	125A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA
Temporary overvoltage TOV-withstand U_T	880V/5sec.	1300V/5sec.
Temporary overvoltage TOV-safe failure U_T	1100V/120min.	1700V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C - 80^{\circ}C$	$-40^{\circ}C - 80^{\circ}C$
Operating state/fault indication	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²
Cross-section area (Max.)	35 mm ²	35 mm ²
For mounting on	35mm Din rail	
Enclosure material	Thermoplastic UL94-V0	
Degree of protection	IP20	IP20
Order Code	B18030	B18046
Order Code (With remote signaling)	B18031	B18047

BR-40VG 4P

Type 2 Surge Arrester

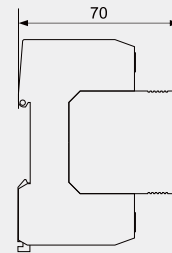
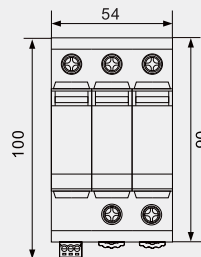
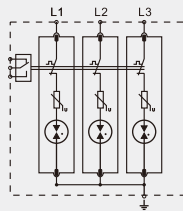


■ BR-40VG 4 pole surge arrester is suitable for TN-S system.

	BR-40VG 150 4P	BR-40VG 275 4P	BR-40VG 320 4P	BR-40VG 385 4P	BR-40VG 440 4P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs)	Imax	40kA	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B17506	B17518	B17530	B17542	B17554
Order Code (With remote signaling)		B17507	B17519	B17531	B17543	B17555

BR-40VG 3P

Type 2 Surge Arrester

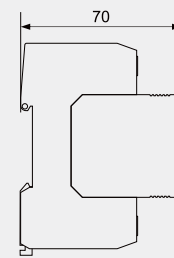
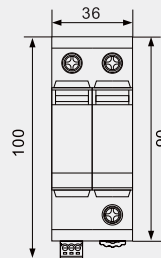
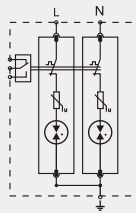
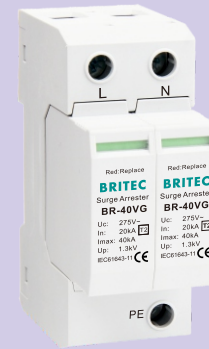


■ BR-40VG 3 pole surge arrester is suitable for TN-C system.

	BR-40VG 150 3P	BR-40VG 275 3P	BR-40VG 320 3P	BR-40VG 385 3P	BR-40VG 440 3P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	440V	
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA	20kA	
Max. discharge current (8/20μs)	Imax	40kA	40kA	40kA	40kA	
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPe	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B17504	B17516	B17528	B17540	B17552
Order Code (With remote signaling)		B17505	B17517	B17529	B17541	B17553

BR-40VG 2P

Type 2 Surge Arrester

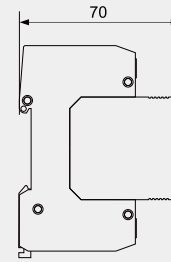
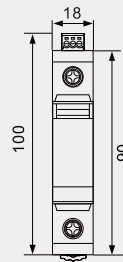
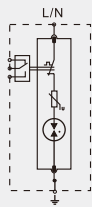


BR-40VG 2 pole surge arrester is suitable for TN-S system.

	BR-40VG 150 2P	BR-40VG 275 2P	BR-40VG 320 2P	BR-40VG 385 2P	BR-40VG 440 2P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V	385V	440V
Nominal discharge current (8/20 μ s) I_n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20 μ s) I_{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level U_p	$\leq 0.8kV$	$\leq 1.3kV$	$\leq 1.5kV$	$\leq 1.8kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 0.6kV$	$\leq 1kV$	$\leq 1.2kV$	$\leq 1.4kV$	$\leq 1.6kV$
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand U_T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure U_T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B17502	B17514	B17526	B17538	B17550
Order Code (With remote signaling)	B17503	B17515	B17527	B17539	B17551

BR-40VG 1P

Type 2 Surge Arrester

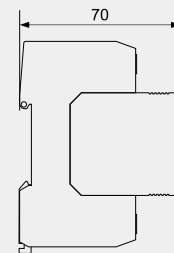
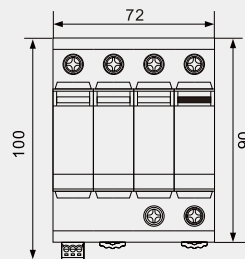
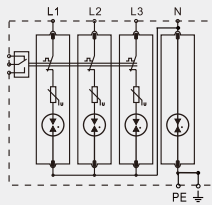
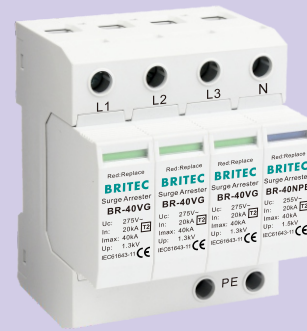


BR-40VG 1P can be used to build 2P,3P and 4P surge arresters.

	BR-40VG 150 1P	BR-40VG 275 1P	BR-40VG 320 1P	BR-40VG 385 1P	BR-40VG 440 1P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20µs)	In	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20µs)	I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B17500	B17512	B17524	B17536	B17548
Order Code (With remote signaling)		B17501	B17513	B17525	B17537	B17549

BR-40VG 3+1

Type 2 Surge Arrester

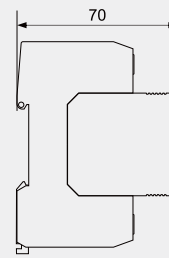
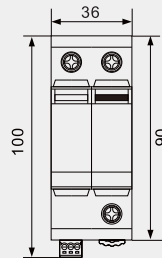
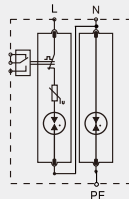


BR-40VG 3+1 surge arrester is suitable for TT system.

	BR-40VG 150 3+1	BR-40VG 275 3+1	BR-40VG 320 3+1	BR-40VG 385 3+1	BR-40VG 440 3+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs) I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B17510	B17522	B17534	B17546	B17558
Order Code (With remote signaling)	B17511	B17523	B17535	B17547	B17559

BR-40VG 1+1

Type 2 Surge Arrester

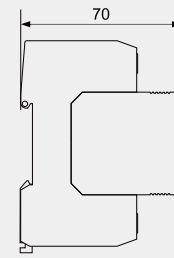
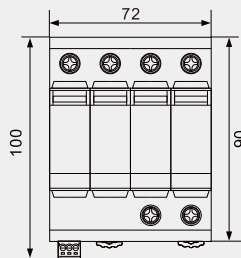
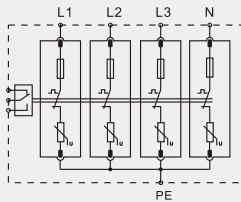
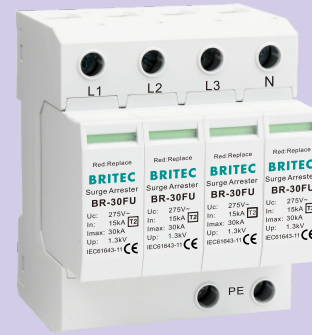


BR-40VG 1+1 surge arrester is suitable for TN-S system.

	BR-40VG 150 1+1	BR-40VG 275 1+1	BR-40VG 320 1+1	BR-40VG 385 1+1	BR-40VG 440 1+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	20kA	20kA	20kA	20kA	20kA
Max. discharge current (8/20μs) I _{max}	40kA	40kA	40kA	40kA	40kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B17508	B17520	B17532	B17544	B17556
Order Code (With remote signaling)	B17509	B17521	B17533	B17545	B17557

BR-30FU 4P

Type 2 Surge Arrester

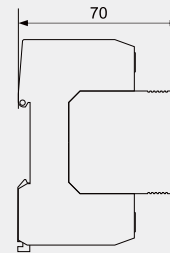
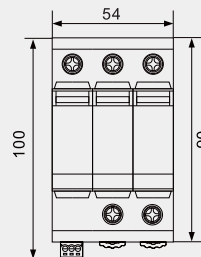
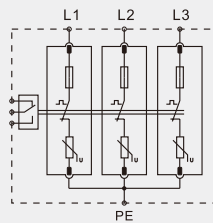
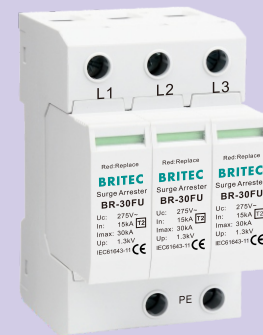


BR-30FU 4 pole surge arrester is suitable for TN-S system.

	BR-30FU 150 4P	BR-30FU 275 4P	BR-30FU 320 4P	BR-30FU 385 4P	BR-30FU 440 4P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20μs)	I _{max}	30kA	30kA	30kA	30kA	30kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20
Order Code		B16106	B16118	B16130	B16142	B16154
Order Code (With remote signaling)		B16107	B16119	B16131	B16143	B16155

BR-30FU 3P

Type 2 Surge Arrester

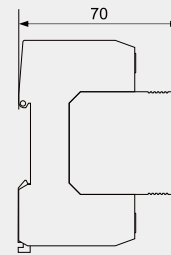
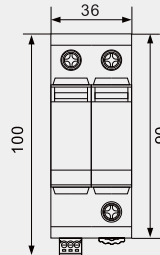
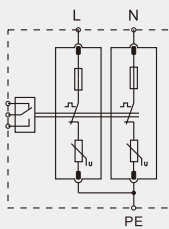
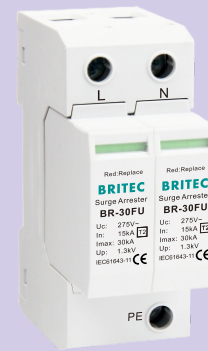


■ BR-30FU 3 pole surge arrester is suitable for TN-C system.

	BR-30FU 150 3P	BR-30FU 275 3P	BR-30FU 320 3P	BR-30FU 385 3P	BR-30FU 440 3P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20 μ s)	In	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20 μ s)	I _{max}	30kA	30kA	30kA	30kA	30kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	I _{scCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B16104	B16116	B16128	B16140	B16152	
Order Code (With remote signaling)	B16105	B16117	B16129	B16141	B16153	

BR-30FU 2P

Type 2 Surge Arrester

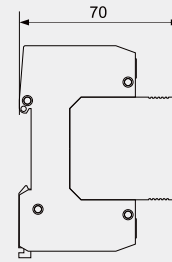
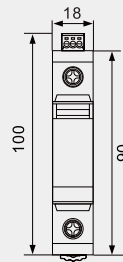
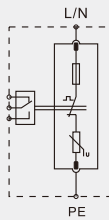


BR-30FU 2 pole surge arrester is suitable for TN-S system.

	BR-30FU 150 2P	BR-30FU 275 2P	BR-30FU 320 2P	BR-30FU 385 2P	BR-30FU 440 2P
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V	385V	440V
Nominal discharge current (8/20 μ s) I_n	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20 μ s) I_{max}	30kA	30kA	30kA	30kA	30kA
Voltage protection level U_p	$\leq 0.8kV$	$\leq 1.3kV$	$\leq 1.5kV$	$\leq 1.8kV$	$\leq 2.0kV$
Voltage protection level 5kA U_p	$\leq 0.6kV$	$\leq 1kV$	$\leq 1.2kV$	$\leq 1.4kV$	$\leq 1.6kV$
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity I_{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand U_T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure U_T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current I_{PE}	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$	$< 0.1mA$
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
Operating temperature range T_u	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$	$-40^{\circ}C-80^{\circ}C$
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B16102	B16114	B16126	B16138	B16150
Order Code (With remote signaling)	B16103	B16115	B16127	B16139	B16151

BR-30FU 1P

Type 2 Surge Arrester

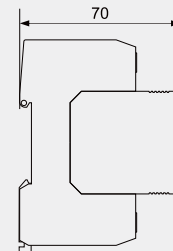
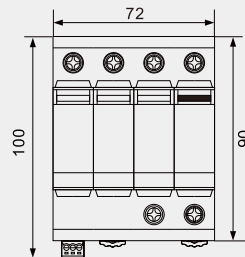
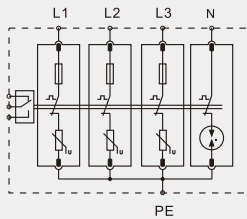


BR-30FU 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-30FU 150 1P	BR-30FU 275 1P	BR-30FU 320 1P	BR-30FU 385 1P	BR-30FU 440 1P	
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2	
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II	
Max. continuous operating a.c. voltage	Uc	150V	275V	320V	385V	440V
Nominal discharge current (8/20μs)	In	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20μs)	Imax	30kA	30kA	30kA	30kA	30kA
Voltage protection level	Up	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA	Up	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Max. backup fuse		125A gG	125A gG	125A gG	125A gG	125A gG
Short-circuit withstand capacity	IscCR	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand	UT	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure	UT	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Leakage current	IPE	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)		35mm ²	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	IP20	
Order Code	B16100	B16112	B16124	B16136	B16148	
Order Code (With remote signaling)	B16101	B16113	B16125	B16137	B16149	

BR-30FU 3+1

Type 2 Surge Arrester

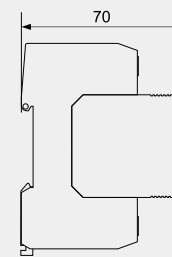
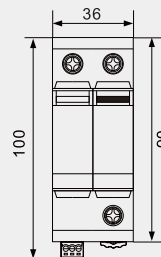
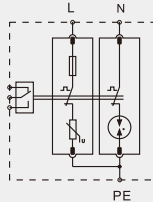


BR-30FU 3+1 surge arrester is suitable for TT system.

	BR-30FU 150 3+1	BR-30FU 275 3+1	BR-30FU 320 3+1	BR-30FU 385 3+1	BR-30FU 440 3+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20μs) I _{max}	30kA	30kA	30kA	30kA	30kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B16110	B16122	B16134	B16146	B16158
Order Code (With remote signaling)	B16111	B16123	B16135	B16147	B16159

BR-30FU 1+1

Type 2 Surge Arrester



BR-30FU 1+1 surge arrester is suitable for TN-S system.

	BR-30FU 150 1+1	BR-30FU 275 1+1	BR-30FU 320 1+1	BR-30FU 385 1+1	BR-30FU 440 1+1
SPD classification according to EN61643-11	Type 2	Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-11	Class II	Class II	Class II	Class II	Class II
Max. continuous operating a.c. voltage [L-N] U _c	150V	275V	320V	385V	440V
Max. continuous operating a.c. voltage [N-PE] U _c	255V	255V	255V	255V	255V
Nominal discharge current (8/20μs) I _n	15kA	15kA	15kA	15kA	15kA
Max. discharge current (8/20μs) I _{max}	30kA	30kA	30kA	30kA	30kA
Voltage protection level [L-N] U _p	≤0.8kV	≤1.3kV	≤1.5kV	≤1.8kV	≤2.0kV
Voltage protection level 5kA [L-N] U _p	≤0.6kV	≤1kV	≤1.2kV	≤1.4kV	≤1.6kV
Voltage protection level [N-PE] U _p	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV	≤1.5kV
Short-circuit withstand capacity I _{SCCR}	25kA	25kA	25kA	25kA	25kA
Temporary overvoltage TOV-withstand [L-N] U _T	175V/5sec.	335V/5sec.	350V/5sec.	550V/5sec.	580V/5sec.
Temporary overvoltage TOV-safe failure [L-N] U _T	250V/120min.	440V/120min.	550V/120min.	660V/120min.	770V/120min.
Temporary overvoltage TOV-withstand [N-PE] U _T	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms	1200V/200ms
Follow current extinguishing capability a.c. [N-PE] I _{fi}	100Arms	100Arms	100Arms	100Arms	100Arms
Max. backup fuse	125A gG	125A gG	125A gG	125A gG	125A gG
Leakage current I _{PE}	<0.1mA	<0.1mA	<0.1mA	<0.1mA	<0.1mA
Response time [L-N] t _A	≤25ns	≤25ns	≤25ns	≤25ns	≤25ns
Response time [N-PE] t _A	≤100ns	≤100ns	≤100ns	≤100ns	≤100ns
Operating temperature range T _u	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication	green/red	green/red	green/red	green/red	green/red
Cross-section area (Min.)	4 mm ²	4 mm ²	4 mm ²	4 mm ²	4 mm ²
Cross-section area (Max.)	35mm ²	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	IP20
Order Code	B16108	B16120	B16132	B16144	B16156
Order Code (With remote signaling)	B16109	B16121	B16133	B16145	B16157