



B+C
Surge Arrester



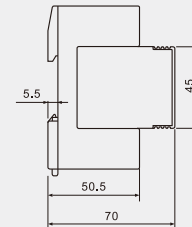
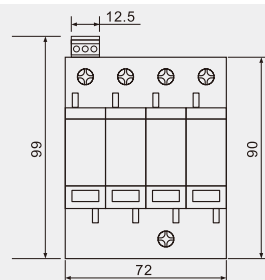
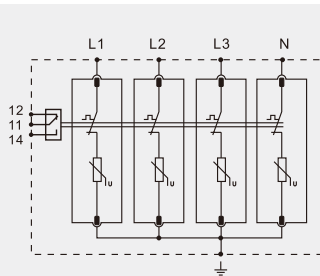
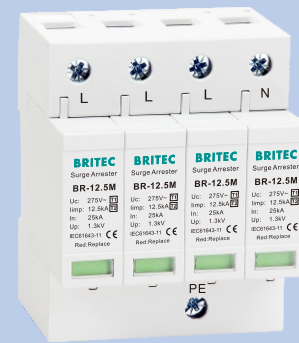
BR-12.5M	BR-12.5M	BR-12.5M	BR-12.5M
Uc: 275V~ T1	Uc: 275V~ T1	Uc: 275V~ T1	Uc: 275V~ T1
limp: 12.5kA T2	limp: 12.5kA T2	limp: 12.5kA T2	limp: 12.5kA T2
In: 25kA	In: 25kA	In: 25kA	In: 25kA
Up: 1.3kV	Up: 1.3kV	Up: 1.3kV	Up: 1.3kV
IEC61643-11 CE	IEC61643-11 CE	IEC61643-11 CE	IEC61643-11 CE
Red:Replace	Red:Replace	Red:Replace	Red:Replace

T1+T2 Surge Arrester

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BR-12.5M 4P

T1+T2 Surge Arrester

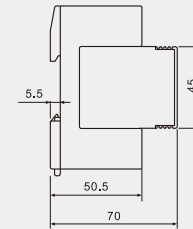
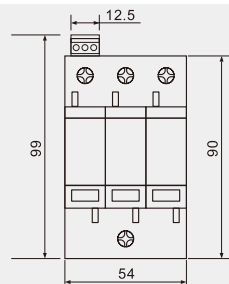
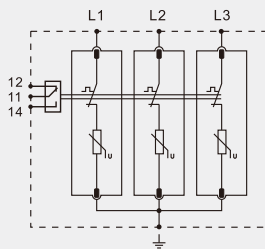


■ BR-12.5M 4P surge arrester is suitable for TN-S system.

	BR-12.5M 150 4P	BR-12.5M 275 4P	BR-12.5M 320 4P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V
Lightning impulse current (10/350 μ s) I_{imp}	12.5kA	12.5kA	12.5kA
Nominal discharge current (8/20 μ s) I_n	25kA	25kA	25kA
Max. discharge current (8/20 μ s) I_{max}	60kA	60kA	60kA
Voltage protection level U_p	$\leq 1.0kV$	$\leq 1.3kV$	$\leq 1.5kV$
Specific energy W/R	39kJ/ Ω	39kJ/ Ω	39kJ/ Ω
Short circuit withstand capacity I_{scsr}	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.
Max. backup fuse	160A gG	160A gG	160A gG
Response time t_A	$\leq 25ns$	$\leq 25ns$	$\leq 25ns$
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.)	4mm ²	4mm ²	4mm 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	B8411	B8413	B8415
Order Code (With remote signaling)	B8412	B8414	B8416

BR-12.5M 3P

T1+T2 Surge Arrester

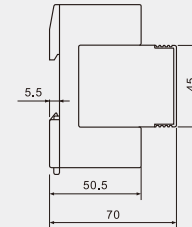
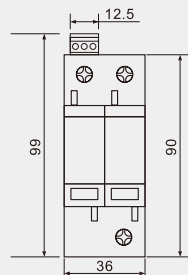
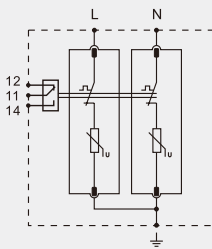
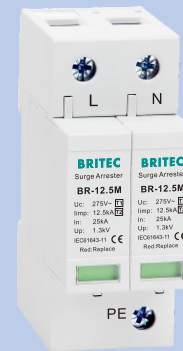


■ BR-12.5M 3P surge arrester is suitable for TN-C system.

		BR-12.5M 150 3P	BR-12.5M 275 3P	BR-12.5M 320 3P
SPD classification according to EN61643-11		Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11		Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V	320V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	25kA	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA	60kA
Voltage protection level	Up	≤1.0kV	≤1.3kV	≤1.5kV
Specific energy	W/R	39kJ/Ω	39kJ/Ω	39kJ/Ω
Short circuit withstand capacity	I _{scrr}	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.
Max. backup fuse		160A gG	160A gG	160A gG
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.)		4mm ²	4mm ²	4mm 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		B8311	B8313	B8315
Order Code (With remote signaling)		B8312	B8314	B8316

BR-12.5M 2P

T1+T2 Surge Arrester

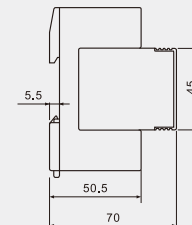
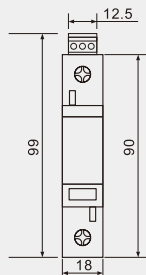
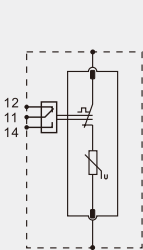


BR-12.5M 2P surge arrester is suitable for single phase TN system.

	BR-12.5M 150 2P	BR-12.5M 275 2P	BR-12.5M 320 2P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤1.0kV	≤1.3kV
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Short circuit withstand capacity	I _{sc}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
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.)		4mm ²	4mm 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	B8211	B8213	B8215
Order Code (With remote signaling)	B8212	B8214	B8216

BR-12.5M 1P

T1+T2 Surge Arrester

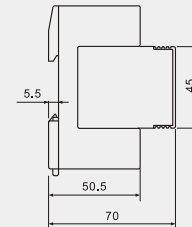
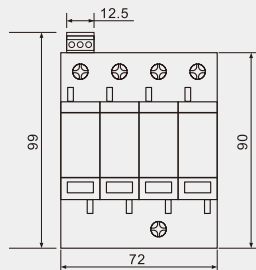
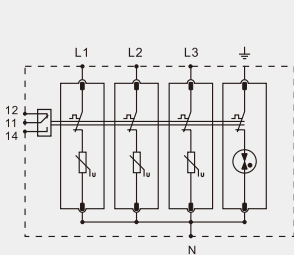


BR-12.5M 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-12.5M 150 1P	BR-12.5M 275 1P	BR-12.5M 320 1P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	U_c	150V	275V
Lightning impulse current (10/350 μ s)	I_{imp}	12.5kA	12.5kA
Nominal discharge current (8/20 μ s)	I_n	25kA	25kA
Max. discharge current (8/20 μ s)	I_{max}	60kA	60kA
Voltage protection level	U_p	$\leq 1.0kV$	$\leq 1.3kV$
Specific energy	W/R	39kJ/ Ω	39kJ/ Ω
Short circuit withstand capacity	I_{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U_T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U_T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
Response time	t_A	$\leq 25ns$	$\leq 25ns$
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.)		4mm ²	4mm 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	B8171	B8173	B8175
Order Code (With remote signaling)	B8172	B8174	B8176

BR-12.5M 3+1

T1+T2 Surge Arrester

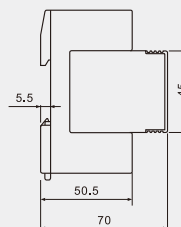
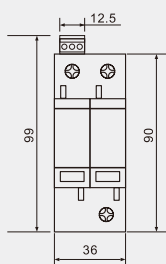
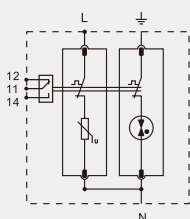


BR-12.5M 3+1 surge arrester is suitable for TT and TN-S system.

	BR-12.5M 150 3+1	BR-12.5M 275 3+1	BR-12.5M 320 3+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V
Lightning impulse current (10/350 μ s) (L-N/N-PE) I_{imp}	12.5kA/50kA	12.5kA/50kA	12.5kA/50kA
Nominal discharge current (8/20 μ s) (L-N/N-PE) I_n	25kA/50kA	25kA/50kA	25kA/50kA
Max. discharge current (8/20 μ s) (L-N/N-PE) I_{max}	60kA/100kA	60kA/100kA	60kA/100kA
Voltage protection level (L-N/N-PE) U_p	$\leq 1.0kV/\leq 1.5kV$	$\leq 1.3kV/\leq 1.5kV$	$\leq 1.5kV/\leq 1.5kV$
Voltage protection level 5kA (L-N/N-PE) U_p	$\leq 0.6kV/\leq 1.5kV$	$\leq 1kV/\leq 1.5kV$	$\leq 1.2kV/\leq 1.5kV$
Max. backup fuse	160A gG	160A gG	160A gG
Specific energy (L-N/N-PE) W/R	39kJ/ Ω / 625kJ/ Ω	39kJ/ Ω / 625kJ/ Ω	39kJ/ Ω / 625kJ/ Ω
Short circuit withstand capacity I_{scrr}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand (L-N) U_T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure (L-N) U_T	250V/120min.	440V/120min.	550V/120min.
Temporary overvoltage TOV-withstand (N-PE) U_T	1200V/200ms	1200V/200ms	1200V/200ms
Response time (L-N/N-PE) t_A	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$
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	B8611	B8613	B8615
Order Code (With remote signaling)	B8612	B8614	B8616

BR-12.5M 1+1

T1+T2 Surge Arrester

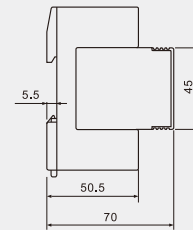
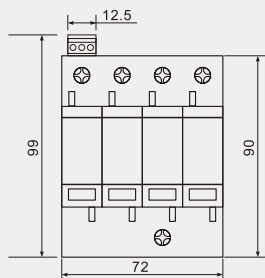
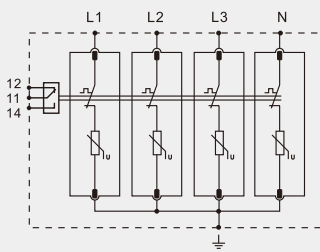
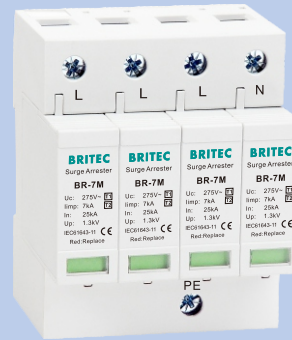


BR-12.5M 1+1 surge arrester is suitable for TT and TN-S system.

	BR-12.5M 150 1+1	BR-12.5M 275 1+1	BR-12.5M 320 1+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U _c	150V	275V	320V
Lightning impulse current (10/350μs) (L-N/N-PE) I _{imp}	12.5kA/25kA	12.5kA/25kA	12.5kA/25kA
Nominal discharge current (8/20μs) (L-N/N-PE) I _n	25kA/40kA	25kA/40kA	25kA/40kA
Max. discharge current (8/20μs) (L-N/N-PE) I _{max}	60kA/80kA	60kA/80kA	60kA/80kA
Voltage protection level (L-N/N-PE) U _p	≤1.0kV/≤1.5kV	≤1.3kV/≤1.5kV	≤1.5kV/≤1.5kV
Voltage protection level 5kA (L-N/N-PE) U _p	≤0.6kV/≤1.5kV	≤1kV/≤1.5kV	≤1.2kV/≤1.5kV
Max. backup fuse	160A gG	160A gG	160A gG
Specific energy (L-N/N-PE) W/R	39kJ/Ω / 156kJ/Ω	39kJ/Ω / 156kJ/Ω	39kJ/Ω / 156kJ/Ω
Short circuit withstand capacity I _{scrr}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand (L-N) U _T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure (L-N) U _T	250V/120min.	440V/120min.	550V/120min.
Temporary overvoltage TOV-withstand (N-PE) U _T	1200V/200ms	1200V/200ms	1200V/200ms
Response time (L-N/N-PE) t _A	≤25ns/≤100ns	≤25ns/≤100ns	≤25ns/≤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	B8617	B8619	B8621
Order Code (With remote signaling)	B8618	B8620	B8622

BR-7M 4P

T1+T2 Surge Arrester

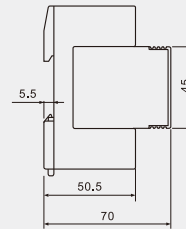
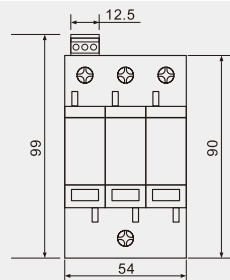
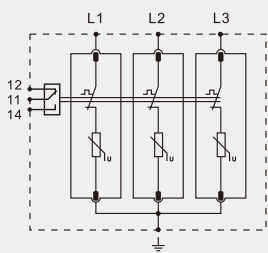
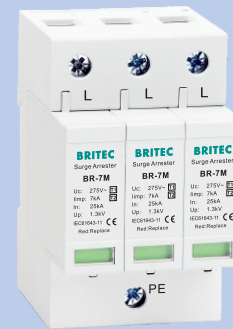


■ BR-7M 4P surge arrester is suitable for TN-S system.

	BR-7M 150 4P	BR-7M 275 4P	BR-7M 320 4P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	7kA	7kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤0.8kV	≤1.3kV
Specific energy	W/R	12.25kJ/Ω	12.25kJ/Ω
Short circuit withstand capacity	I _{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.
Max. backup fuse		125A gG	125A gG
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.)		4mm ²	4mm 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	B7300	B7302	B7304
Order Code (With remote signaling)	B7301	B7303	B7305

BR-7M 3P

T1+T2 Surge Arrester

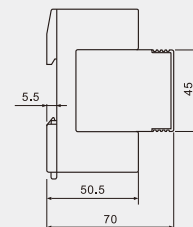
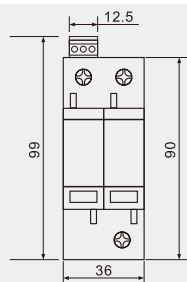
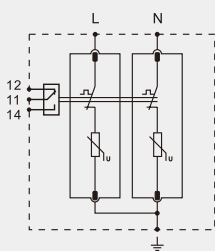
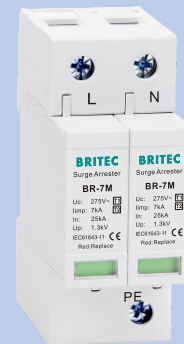


■ BR-7M 3P surge arrester is suitable for TN-C system.

	BR-7M 150 3P	BR-7M 275 3P	BR-7M 320 3P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	7kA	7kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤0.8kV	≤1.3kV
Specific energy	W/R	12.25kJ/Ω	12.25kJ/Ω
Short circuit withstand capacity	I _{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.
Max. backup fuse		125A gG	125A gG
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.)		4mm ²	4mm 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	B7306	B7308	B7310
Order Code (With remote signaling)	B7307	B7309	B7311

BR-7M 2P

T1+T2 Surge Arrester

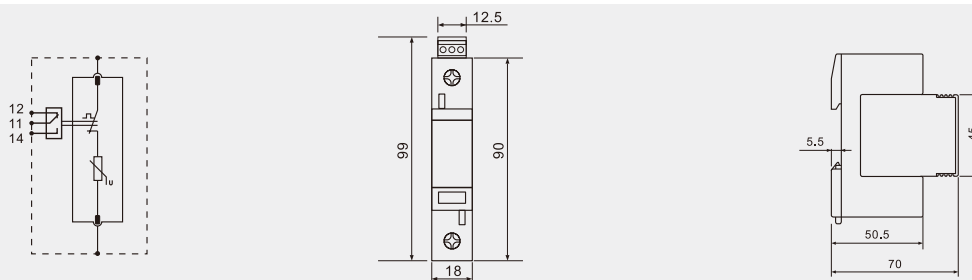


■ BR-7M 2P surge arrester is suitable for single phase TN system.

	BR-7M 150 2P	BR-7M 275 2P	BR-7M 320 2P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	7kA	7kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤0.8kV	≤1.3kV
Specific energy	W/R	12.25kJ/Ω	12.25kJ/Ω
Short circuit withstand capacity	I _{sc}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.
Max. backup fuse		125A gG	125A gG
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.)		4mm ²	4mm 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	B7312	B7314	B7316
Order Code (With remote signaling)	B7313	B7315	B7317

BR-7M 1P

T1+T2 Surge Arrester

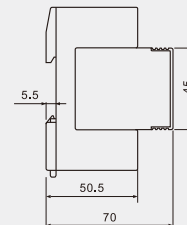
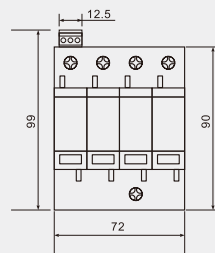
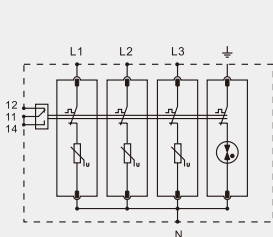


■ BR-7M 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-7M 150 1P	BR-7M 275 1P	BR-7M 320 1P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	7kA	7kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤0.8kV	≤1.3kV
Specific energy	W/R	12.25kJ/Ω	12.25kJ/Ω
Short circuit withstand capacity	I _{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	175V/5sec.	335V/5sec.
Temporary overvoltage TOV-safe failure	U _T	250V/120min.	440V/120min.
Max. backup fuse		125A gG	125A gG
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.)		4mm ²	4mm 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	B7318	B7320	B7322
Order Code (With remote signaling)	B7319	B7321	B7323

BR-7M 3+1

T1+T2 Surge Arrester

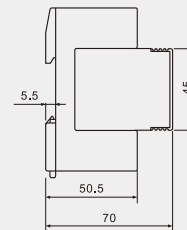
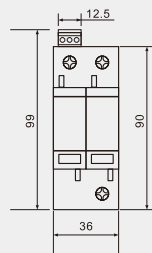
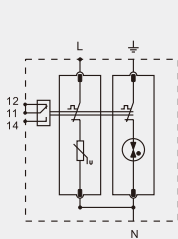
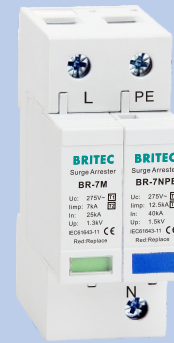


■ BR-7M 3+1 surge arrester is suitable for TT and TN-S system.

	BR-7M 150 3+1	BR-7M 275 3+1	BR-7M 320 3+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V
Lightning impulse current (10/350 μ s) (L-N/N-PE) I_{imp}	7kA/12.5kA	7kA/12.5kA	7kA/12.5kA
Nominal discharge current (8/20 μ s) (L-N/N-PE) I_n	25kA/40kA	25kA/40kA	25kA/40kA
Max. discharge current (8/20 μ s) (L-N/N-PE) I_{max}	60kA/70kA	60kA/70kA	60kA/70kA
Voltage protection level (L-N/N-PE) U_p	$\leq 0.8kV/\leq 1.5kV$	$\leq 1.3kV/\leq 1.5kV$	$\leq 1.5kV/\leq 1.5kV$
Voltage protection level 5kA (L-N/N-PE) U_p	$\leq 0.6kV/\leq 1.5kV$	$\leq 1kV/\leq 1.5kV$	$\leq 1.2kV/\leq 1.5kV$
Max. backup fuse	125A gG	125A gG	125A gG
Specific energy (L-N/N-PE) W/R	12.25kJ/ Ω / 39kJ/ Ω	12.25kJ/ Ω / 39kJ/ Ω	12.25kJ/ Ω / 39kJ/ Ω
Short circuit withstand capacity I_{scrr}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand (L-N) U_T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure (L-N) U_T	250V/120min.	440V/120min.	550V/120min.
Temporary overvoltage TOV-withstand (N-PE) U_T	1200V/200ms	1200V/200ms	1200V/200ms
Response time (L-N/N-PE) t_A	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$
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	B7324	B7326	B7328
Order Code (With remote signaling)	B7325	B7327	B7329

BR-7M 1+1

T1+T2 Surge Arrester

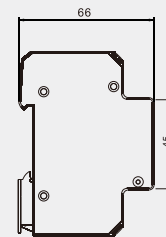
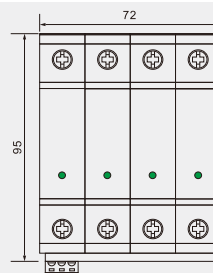
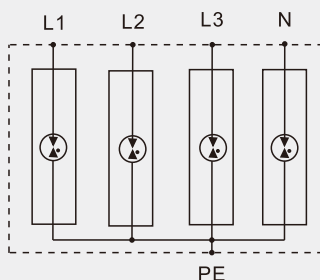


■ BR-7M 1+1 surge arrester is suitable for TT and TN-S system.

	BR-7M 150 1+1	BR-7M 275 1+1	BR-7M 320 1+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V
Lightning impulse current (10/350 μ s) (L-N/N-PE) I_{imp}	7kA/12.5kA	7kA/12.5kA	7kA/12.5kA
Nominal discharge current (8/20 μ s) (L-N/N-PE) I_n	25kA/40kA	25kA/40kA	25kA/40kA
Max. discharge current (8/20 μ s) (L-N/N-PE) I_{max}	60kA/70kA	60kA/70kA	60kA/70kA
Voltage protection level (L-N/N-PE) U_p	$\leq 0.8kV/\leq 1.5kV$	$\leq 1.3kV/\leq 1.5kV$	$\leq 1.5kV/\leq 1.5kV$
Voltage protection level 5kA (L-N/N-PE) U_p	$\leq 0.6kV/\leq 1.5kV$	$\leq 1kV/\leq 1.5kV$	$\leq 1.2kV/\leq 1.5kV$
Max. backup fuse	125A gG	125A gG	125A gG
Specific energy (L-N/N-PE) W/R	12.25kJ/ Ω / 39kJ/ Ω	12.25kJ/ Ω / 39kJ/ Ω	12.25kJ/ Ω / 39kJ/ Ω
Short circuit withstand capacity I_{scrr}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand (L-N) U_T	175V/5sec.	335V/5sec.	350V/5sec.
Temporary overvoltage TOV-safe failure (L-N) U_T	250V/120min.	440V/120min.	550V/120min.
Temporary overvoltage TOV-withstand (N-PE) U_T	1200V/200ms	1200V/200ms	1200V/200ms
Response time (L-N/N-PE) t_A	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$	$\leq 25ns/\leq 100ns$
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	B7330	B7332	B7334
Order Code (With remote signaling)	B7331	B7333	B7335

BR-12.5GRS 4P

T1+T2 Surge Arrester Sparkgap

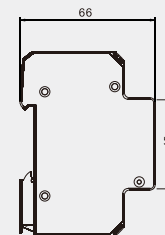
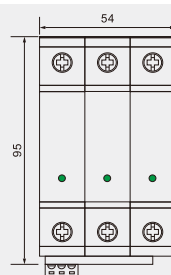
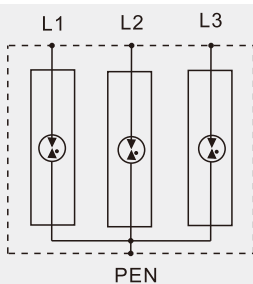


BR-12.5GRS 4P surge arrester is suitable for TN-S system.

	BR-12.5GRS 150 4P	BR-12.5GRS 275 4P	BR-12.5GRS 320 4P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	30kA	30kA
Max. discharge current (8/20µs)	Imax	60kA	60kA
Voltage protection level	Up	≤1.8kV	≤1.8kV
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Short circuit withstand capacity	Iscrr	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
Response time	t _a	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/off	green/off
Cross-section area (Min.)		4mm ²	4mm 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	B7010	B7023	B7036
Order Code (With remote signaling)	B7011	B7024	B7037

BR-12.5GRS 3P

T1+T2 Surge Arrester Sparkgap

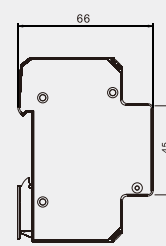
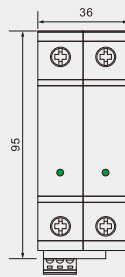
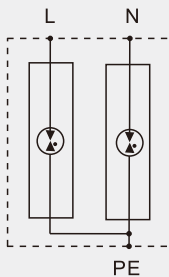


BR-12.5GRS 3P surge arrester is suitable for TN-C system.

	BR-12.5GRS 150 3P	BR-12.5GRS 275 3P	BR-12.5GRS 320 3P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	30kA	30kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤1.8kV	≤1.8kV
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Short circuit withstand capacity	I _{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
Response time	t _A	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/off	green/off
Cross-section area (Min.)		4mm ²	4mm 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	B7012	B7025	B7038
Order Code (With remote signaling)	B7013	B7026	B7039

BR-12.5GRS 2P

T1+T2 Surge Arrester Sparkgap

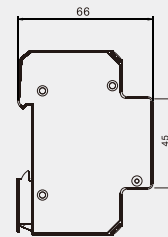
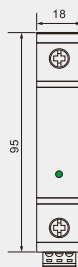
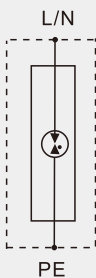


■ BR-12.5GRS 2P surge arrester is suitable for TN system.

	BR-12.5GRS 150 2P	BR-12.5GRS 275 2P	BR-12.5GRS 320 2P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	U_c	150V	275V
Lightning impulse current (10/350 μ s)	I_{imp}	12.5kA	12.5kA
Nominal discharge current (8/20 μ s)	I_n	30kA	30kA
Max. discharge current (8/20 μ s)	I_{max}	60kA	60kA
Voltage protection level	U_p	$\leq 1.8kV$	$\leq 1.8kV$
Specific energy	W/R	39kJ/ Ω	39kJ/ Ω
Short circuit withstand capacity	I_{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U_T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
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/off	green/off
Cross-section area (Min.)		4mm ²	4mm 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	B7014	B7027	B7040
Order Code (With remote signaling)	B7015	B7028	B7041

BR-12.5GRS 1P

T1+T2 Surge Arrester Sparkgap

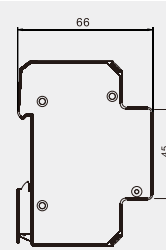
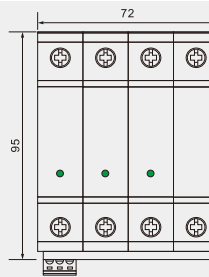
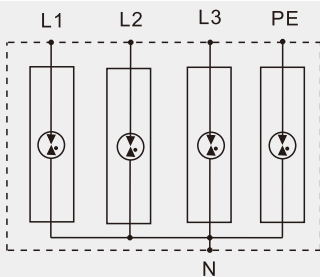
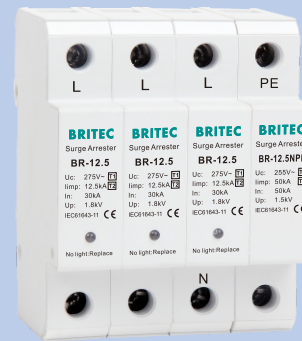


BR-12.5GRS 1P can be used to build 2P, 3P and 4P surge arresters.

	BR-12.5GRS 150 1P	BR-12.5GRS 275 1P	BR-12.5GRS 320 1P
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	30kA	30kA
Max. discharge current (8/20µs)	I _{max}	60kA	60kA
Voltage protection level	Up	≤1.8kV	≤1.8kV
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Short circuit withstand capacity	I _{scrr}	25kA	25kA
Temporary overvoltage TOV-withstand	U _T	250V/120min.	440V/120min.
Max. backup fuse		160A gG	160A gG
Response time	t _A	≤25ns	≤25ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/off	green/off
Cross-section area (Min.)		4mm ²	4mm 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	B7016	B7029	B7042
Order Code (With remote signaling)	B7017	B7030	B7043

BR-12.5GRS 3+1

T1+T2 Surge Arrester

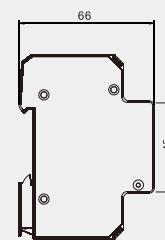
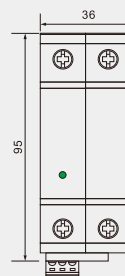
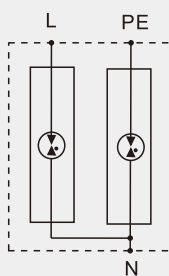
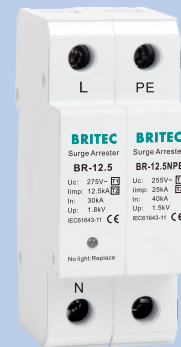


BR-12.5GRS 3+1 surge arrester is suitable for TT and TN-S system.

	BR-12.5GRS 150 3+1	BR-12.5GRS 275 3+1	BR-12.5GRS 320 3+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage	Uc	150V	275V
Lightning impulse current (10/350µs) (L-N/N-PE)	Iimp	12.5kA/50kA	12.5kA/50kA
Nominal discharge current (8/20µs) (L-N/N-PE)	In	30kA/50kA	30kA/50kA
Max. discharge current (8/20µs) (L-N/N-PE)	I _{max}	60kA/100kA	60kA/100kA
Voltage protection level (L-N/N-PE)	Up	≤1.8kV/≤1.5kV	≤1.8kV/≤1.5kV
Specific energy (L-N/N-PE)	W/R	39kJ/Ω / 625kJ/Ω	39kJ/Ω / 625kJ/Ω
Short circuit withstand capacity	I _{sc}	25kA	25kA
Temporary overvoltage TOV-withstand (L-N)	U _T	250V/120min.	440V/120min.
Temporary overvoltage TOV-withstand (N-PE)	U _T	1200V/200ms	1200V/200ms
Max. backup fuse		160A gG	160A gG
Response time (L-N/N-PE)	t _A	≤25ns/≤100ns	≤25ns/≤100ns
Operating temperature range	T _u	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/off	green/off
Cross-section area (Min.)		4mm ²	4mm 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		B7018	B7031
Order Code (With remote signaling)		B7019	B7032

BR-12.5GRS 1+1

T1+T2 Surge Arrester



■ BR-12.5GRS 1+1 surge arrester is suitable for TT and TN-S system.

	BR-12.5GRS 150 1+1	BR-12.5GRS 275 1+1	BR-12.5GRS 320 1+1
SPD classification according to EN61643-11	Type 1 + Type 2	Type 1 + Type 2	Type 1 + Type 2
SPD classification according to IEC61643-11	Class I + Class II	Class I + Class II	Class I + Class II
Max. continuous operating a.c. voltage U_c	150V	275V	320V
Lightning impulse current (10/350 μ s) (L-N/N-PE) I_{imp}	12.5kA/25kA	12.5kA/25kA	12.5kA/25kA
Nominal discharge current (8/20 μ s) (L-N/N-PE) I_n	30kA/40kA	30kA/40kA	30kA/40kA
Max. discharge current (8/20 μ s) (L-N/N-PE) I_{max}	60kA/80kA	60kA/80kA	60kA/80kA
Voltage protection level (L-N/N-PE) U_p	$\leq 1.8kV / \leq 1.5kV$	$\leq 1.8kV / \leq 1.5kV$	$\leq 1.8kV / \leq 1.5kV$
Specific energy (L-N/N-PE) W/R	39kJ/ Ω / 156kJ/ Ω	39kJ/ Ω / 156kJ/ Ω	39kJ/ Ω / 156kJ/ Ω
Short circuit withstand capacity I_{sc}	25kA	25kA	25kA
Temporary overvoltage TOV-withstand (L-N) U_T	250V/120min.	440V/120min.	550V/120min.
Temporary overvoltage TOV-withstand (N-PE) U_T	1200V/200ms	1200V/200ms	1200V/200ms
Max. backup fuse	160A gG	160A gG	160A gG
Response time (L-N/N-PE) t_A	$\leq 25ns / \leq 100ns$	$\leq 25ns / \leq 100ns$	$\leq 25ns / \leq 100ns$
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/off	green/off	green/off
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	B7020	B7033	B7046
Order Code (With remote signaling)	B7021	B7034	B7047