RI100 10 kA
Miniature Circuit Breakers

Types

RI 101	single-pole
RI 101N	single pole + neutral pole
RI 102	two-pole
RI 103	three-pole
RI 103N	three-pole + neutral pole
RI 104	four pole

Applications

Miniature circuit breakers of RI100 series are used for switching, conducting and switching-off the current not only in normal operating conditions but also in special conditions in a circuit such as short circuit. They are used for overcurrent protection of house installations, industrial electric distributions and devices.

Benefits

- High rated short-circuit breaking capacity up to 10 kA on IEC 60947-2/ IEC 60898-1 standard
- Service life of product has been greatly enhanced through special designed tripping mechanism
- Long-time and reliable operation
- Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties
- Compact and modularized design
- Convenient mounting

Standards

- IEC/EN 60947-2

RI100 characteristics

Technical data	Symbol	Unit	RI100
Area of use			AC systems
Standards			IEC/EN 60947-2
Approvals			SEMKO, CE
Number of poles			1,1+N, 2, 3, 3+N, 4
Tripping characteristics			C
Rated currents	I_n	A	80, 100, 125
Rated voltage	U_n	V	230, 230/400, 400
Rated DC voltage	U_n	V	max. 60
Max. time constant for DC voltage	t	ms	3
Rated impulse withstand voltage	U_{imp}	kV	4
Rated insulation voltage	U_i	V	690
Rated frequency	f	Hz	50/60
Rated short-circuit breaking capacity	I_{cu} I_{cn}	kA	10
Service short-circuit breaking capacity	I_{cs}	kA	7.5
Selectivity class			3
Electrical endurance		op. c.	4 000
Mechanical endurance		op. c.	10 000
Terminal capacity			1 ... 50
Screw type			M5
Screw head			PZ2
Tightening torque		Nm	3.5
Mounting			35 mm DIN rail acc. to 60715, with clip on panel
Degree of protection	front panel		IP40
	housing		IP20
Ambient temperature		°C	-10 ... +50
Altitude*		m	up to 2000
Mounting position			any
Resistance against vibrations			3 g (8 ... 50 Hz)

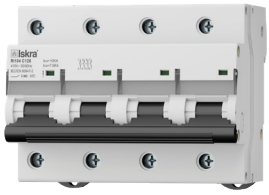
* Above max. altitude the voltages U and U are reduced by 1.2%, i.e. nominal rating I is reduced by 0.4% for every additional 100 m

RI100 — B characteristics

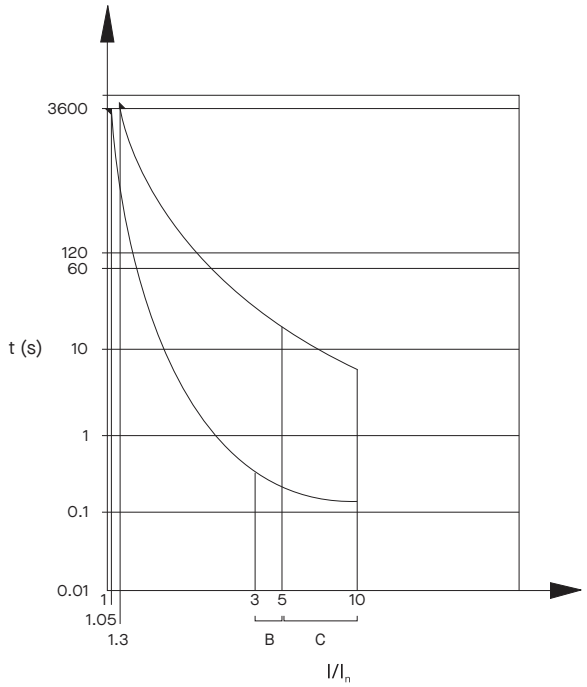
Type	Rated Current I_n (A)	Rated Voltage U_n (V)	Number of Poles	Ordering No.	Weight (g)	Packaging (pcs)
RI101						
RI101 B80	80	230	1	786.101.220	160	12
RI101 B100	100	230	1	786.101.221	160	12
RI101 B125	125	230	1	786.101.222	160	12
RI102						
RI102 B80	80	230/400	2	786.101.226	320	6
RI102 B100	100	230/400	2	786.101.227	320	6
RI102 B125	125	230/400	2	786.101.228	320	6
RI103						
RI103 B80	80	400	3	786.101.229	490	4
RI103 B100	100	400	3	786.101.230	490	4
RI103 B125	125	400	3	786.101.231	490	4
RI104						
RI104 B80	80	400	4	786.101.235	640	3
RI104 B100	100	400	4	786.101.236	640	3
RI104 B125	125	400	4	786.101.237	640	3

RI100 — C characteristics

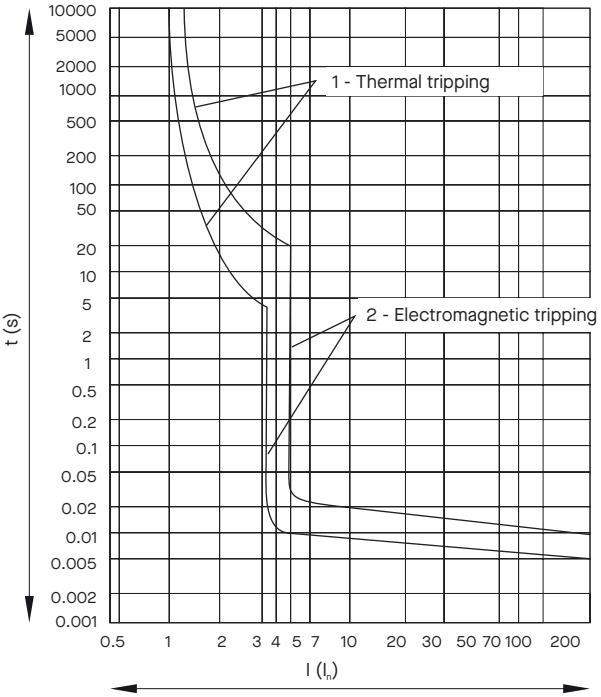
Type	Rated Current I_n (A)	Rated Voltage U_n (V)	Number of Poles	Ordering No.	Weight (g)	Packaging (pcs)
RI101						
RI101 C80	80	230	1	786.101.250	160	12
RI101 C100	100	230	1	786.101.251	160	12
RI101 C125	125	230	1	786.101.252	160	12
RI102						
RI102 C80	80	230/400	2	786.101.256	320	6
RI102 C100	100	230/400	2	786.101.257	320	6
RI102 C125	125	230/400	2	786.101.258	320	6
RI103						
RI103 C80	80	400	3	786.101.259	490	4
RI103 C100	100	400	3	786.101.260	490	4
RI103 C125	125	400	3	786.101.261	490	4
RI104						
RI104 C80	80	400	4	786.101.265	640	3
RI104 C100	100	400	4	786.101.266	640	3
RI104 C125	125	400	4	786.101.267	640	3



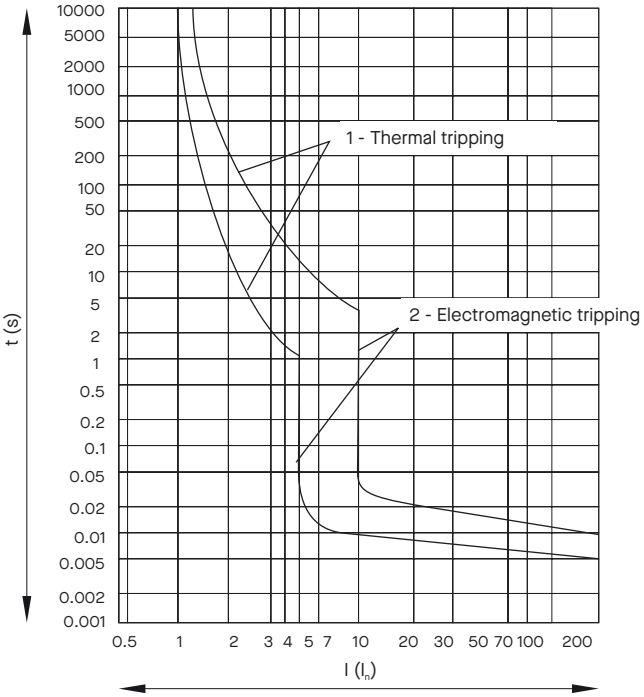
Tripping characteristics



B type



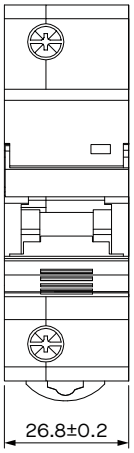
C type



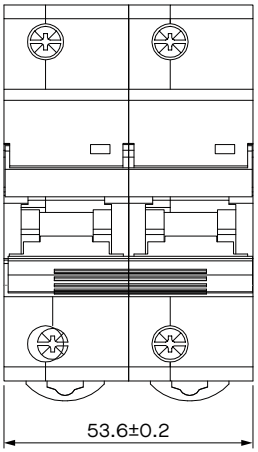
Dimensions

(mm)

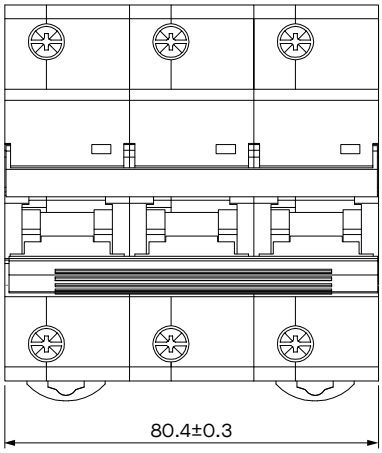
RI101



RI102
RI102+N



RI103



RI103 +N
RI104