RI 60

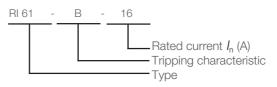


- RI 60 is used for over-current (overload and short-circuit) protection of installations and devices, and as a disconnector in case of electric shock
- RI 60 miniature circuit breakers are provided with two springs for assembly to a 35 mm wide mounting rail (EN 60715). The springs enable simple taking off irrespective of whether a busbar is positioned below or above
- Special springs are available for fixing miniature circuit breakers with two M5 screws
- A handle can be sealed in ON or OFF position
- Optional operation position
- Degree of protection IP20; degree of protection IP40 after installation in a distribution box
- Additional colour indication of the position of main contacts (red - contacts closed; green - contacts open)

Types				
RI 61	single-pole			
RI 61N	single-pole + neutral pole			
RI 61J	single-pole (for DC circuits)			
RI 62	two-pole			
RI 62J	two-pole (for DC circuits)			
RI 63	three-pole			
RI 63N	three-pole + neutral pole			
RI 64	four-pole			

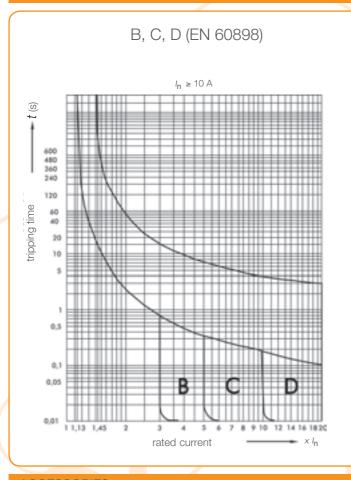
TECHNICAL DATA					
			AC	DC	
Standards			IEC/EN 60898, If	EC/EN 60947-2	
Approvals			VDE, GOST-R		
No. of poles			1, 2, 3, 4, 1 + N, 3 + N	1. 2	
Tripping characteristic (IEC/EN 60898)			B, C, D, M	C, M	
Rated voltage	Un	V	230/400	-	
Rated DC voltage	Un	V	max. 40 - 1 pole for t=15 ms	440 - 2-pole 220 - 1-pole	
Rated insulation voltage	Ui	V	50	0	
Rated frequency	f	Hz	50/60	-	
Rated current	l _n	А	0.2 to	0 63	
Short-circuit capacity	l _{cn}	kA	10	4.5	
Selectivity class			3		
Terminal capacity Cu	S	2	1.5 25		
Al	5	mm ²	2.5 25		
Ambient temperature		°C	-25	. +55	
Vibration resistance			3 g (8 - 50 Hz)		

ORDERING DATA



RI 60

TRIPPING CHARACTERISTIC



ACCESSORIES

AUXILIARY AND SIGNAL CONTACTS

- They are used with RI 60 miniature circuit breakers and RV 60 disconnection switches (0.5 module width).
- Delivered as a single unit or with RI 60 or RV 60, respectively; mounted on the left side by means of pins and screw.
- Serve for signalling of contact position of the breaker
- Degree of protectin IP20
- Types:
 - PKJ, 2PKJ one or two auxiliary changeover contacts; position of contacts corresponds to the position of the main contacts of the breaker
 - PKJ + SKJ one auxiliary changeover contact and one signal change over contact (fault indicating contact)
 - PKJ + SKJ + TEST test button with two functions is added: signalling the position of signal contacts and testing of control circuit (non-stable change of position of the contacts) by slight movement of push-button upwards and downwards without change of contact position of the breaker

TECHNICAL DATA			
Standards			IEC/EN 60947-5-1
Rated insulation voltage	Ui	V	400
Rated operational voltage	Ue	V	230
Rated thermal current	l _{th}	Α	16
Rated operational current			
AC-15	l _e	Α	4 (U _e = 230 V)
DC-13			0.5 (U _e = 110 V)*
Terminal capacity	S	mm ²	0.5 2.5

^{*}Connection of two auxiliary contacts in series at 220 V

RI 60

SHUNT TRIP RELEASE VC

- Used with RI 60 miniature circuit breakers and RV 60 disconnection switches.
- Enables remote switch-off.
- Available as a single unit or together with RI 60 or RV 60; mounted on the the right side by means of pins and screw.

TECHNICAL DATA					
Standards	Standards			IEC/EN 60947-1	
Control voltages	AC	.,	, , , ,	12, 24, 48, 60, 110, 230, 400	
	DC	U _c	V	24, 48, 110	
Range of control voltage		Uc	%	70 110	
Max. tripping current	AC			6 (12); 2.8 (24); 0.8 (48); 0.9 (60); 0.5 (110); 0.6 (230); 0.5 (400)	
(at coil voltage)	DC		A (V)	3 (24); 2 (48); 0.6 (110)	
Rated frequency		f	Hz	50	
Tripping time			ms	≤ 50	
Terminal capacity		S	mm ²	1.5 6	

UNDERVOLTAGE RELEASE PC 60

- Used with RI 60, RI 120 miniature circuit breakers and RV 60, RV 120 disconnection switches;
- Protection of the load in the event of voltage drop (between 85% and 35% of its control voltage); uncontrolled restarting is
 prevented;
- Indication of release position green/red;
- Mounted on the right side of the breaker;
- Test button for the correct function control;
- Degree of protection IP 20

TECHNICAL DATA			
Standards			IEC/EN 60947-1
Control voltage	U_{c}	V	24, 48, 120, 230, 400
Rated frequency	f	Hz	50
Coil power consumption		W	3
Mechanical endurance op. c.		op. c.	10,000
Terminal capacity	S	mm ²	0.75 2,5

OTHER ACCESSORIES

Busbar - universal

(for one-pole circuit breakers and one-pole circuit breakers with an auxiliary switch)



Designation	Length (m)	Cross-section (mm²)
G-1L-210 / 12 iso	0.21	12
G-1L-1000 / 12 iso	1 /	12
G-21-1000 / 10	1	12

Busbar - fork-type, 3-phase

(for three-pole circuit breakers and one-pole circuit breakers in three-phase circuits)



Designation	Length (m)	Cross-section (mm²)
G-3L-1000 / 10 C	1	10
G-3L-1000 / 16 C	1	16
G-4L-1000 / 16	1	16

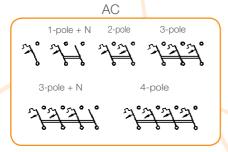
RI 60

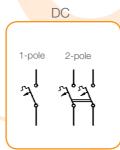
End caps (for three-phase busbars)

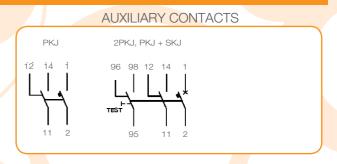


Designation	Cross-section (mm²)
EK-C-3/10	10
EK-C-2+3/16	16

CONNECTION DIAGRAM







DIMENSIONS



