

RCCB Residual Current Circuit Breaker series BCF6, 6kA, type AC



BC606110

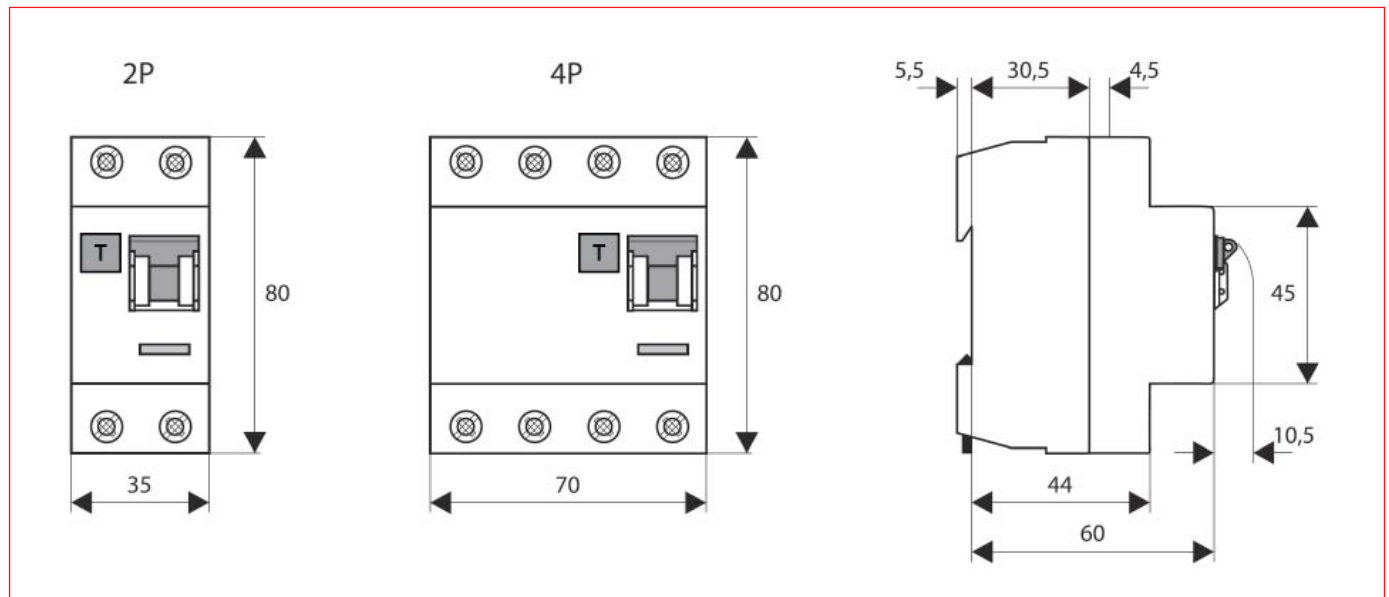
Schrack-Info

- Sensitivity: AC-sensitive (type AC)
- 10 ms tripping delay type G
- Short-circuit strength 6kA
- Tripping independent of line voltage
- Contact position color indicator (red/green)
- Most common accessories: auxiliary contact 1 NO / 1 NC BD900002

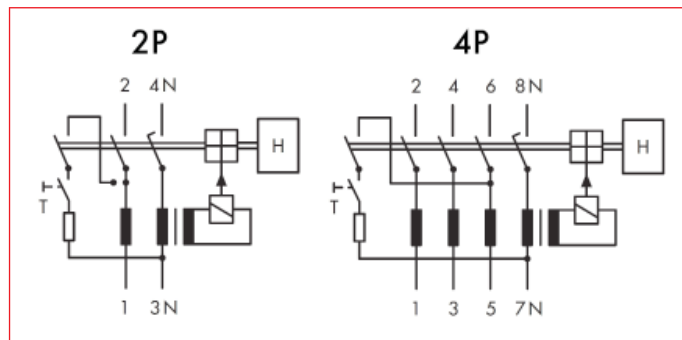
Standards:	IEC/EN 61008	
Pole	2-pole, 4-pole	
Rated voltage U_s :	230V/240V	
2-pole	230/400 and 240/415V-AC	
4-pole		
Rated frequency:	50/60Hz	
Rated current I_n :	25A, 40A, 63A	
Tripping-type:	AC (AC-sensitive)	
Rated current $I\Delta n$:	30mA, 100mA, 300mA	
Delay-type:	undelayed	
Surge current proof:	>250A (8/20 μ s)	
Tripping:	line voltage-independent	
Rated insulation voltage U_i :	440V	
Rated impulse withstand voltage U_{imp} :	4kV (1.2/50 μ s)	
Rated breaking capacity I_m and rated residual making $I\Delta m$:		
$I_n = 25A$	500A	
$I_n = 40A$	500A	
$I_n = 63A$	630A	
Rated short-circuit capacity I_{cn} :	6kA according EN 61008	
Max. back up fuse:	overload (OPCD):	short circuit (SCPD):
$I_n = 25A$	25A gG/gL	63A gG/gL
$I_n = 40A$	25A gG/gL	63A gG/gL
$I_n = 63A$	40A gG/gL	63A gG/gL
Operating voltage test-circuit:	195,5 - 440V-AC	
Endurance:	> 4.000 operating cycles (mechanical > 20.000)	
Lamp strength:		
30mA	max. 20 electronic ballasts per phase, max. 60 per RCCB (typical, commercially available)	
100mA, 300mA	max. 90 electronic ballasts per phase (typical, commercially available)	
Contact position indicator:	red / green	
Rated tripping temperature:	-25°C up to +40°C	
Max. ambient temperature:		
25A	-35°C up to +55°C	
40A - 63A	-35°C up to +60°C	
Climatic proofing:	according to IEC/EN 61008	
Finger and hand touch safe:	according to BGV A3	
Degree of protection:	IP 20 (covered IP40)	
Operating position:	in any position	
Terminals:	Double clamp / lift terminal	
Terminal cross-section:	1-35 mm ² solid, 2x16 mm ² stranded	
Terminal screws:	Pozidriv PZ2	
Terminal tightening torque:	2 - 2,4 Nm	
Mounting:	on DIN rail by latching snap-on mounting	
Test interval:	Operate test button of RCCB 1 x every 6 months. The system operator is responsible for this test! Under non-household-type conditions (e.g. humid or dusty environment), it is recommended to carry out the test in monthly intervals. Pressing the test button "T" only tests the function of the residual current (RC) circuit breaker. This test does not replace the earthing resistance measurement (RE) nor the proper protective conductor test that must be performed separately.	

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■ Dimensions

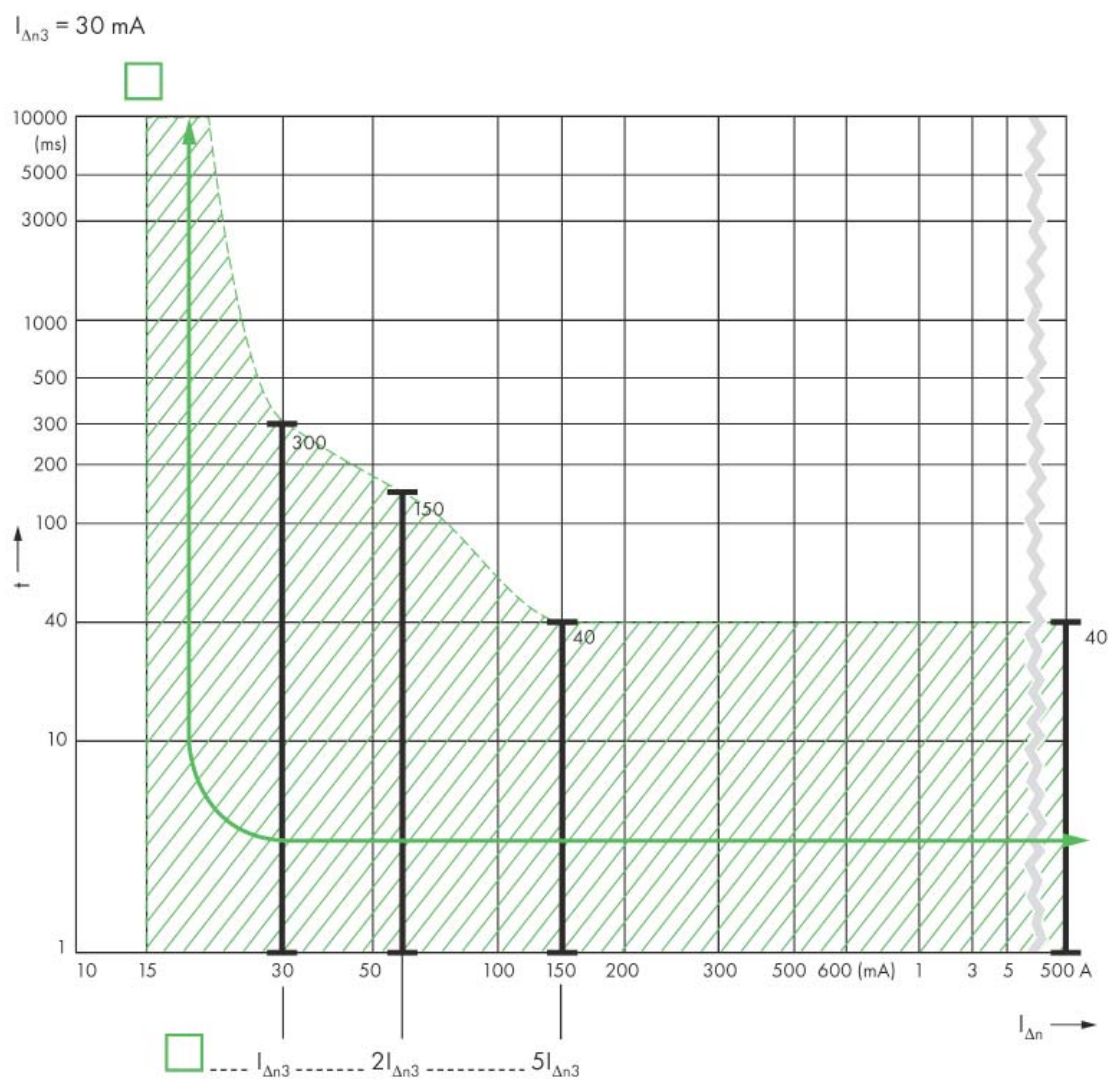


■ Wiring diagram



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 Tripping characteristic undelayed



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Conductor cross section [mm ²]	Number of single conductors, rigid, single-wire Cu conductors					
	1	2	3	4	5	6
1,5	+	+	+	+	+	-
2,5	+	+	+	+	-	-
4	+	+	+	+	-	-
6	+	+	+	+	-	-
10	+	+	+	-	-	-
16	+	+	-	-	-	-
25	+	-	-	-	-	-
35	+	-	-	-	-	-

Conductor cross section [mm ²]	Number of single conductors, rigid, multi-wire Cu conductors					
	1	2	3	4	5	6
10	+	+	+	-	-	-
16	+	+	-	-	-	-
25	+	-	-	-	-	-
35	+	-	-	-	-	-

Conductor cross section [mm ²]	Number of single conductors, flexible Cu conductors without sleeves					
	1	2	3	4	5	6
1,5	-	-	-	-	+	-
2,5	-	-	+	+	-	-
4	-	+	+	+	-	-
6	-	+	+	+	-	-
10	-	+	-	-	-	-
16	-	+	-	-	-	-
25	-	-	-	-	-	-
35	-	-	-	-	-	-

Conductor cross section [mm ²]	Number of single conductors, flexible Cu conductors with sleeves					
	1	2	3	4	5	6
1,5	+	-	-	-	-	-
2,5	+	-	-	-	-	-
4	+	-	-	-	-	-
6	+	-	-	-	-	-
10	+	-	-	-	-	-
16	+	-	-	-	-	-
25	+	-	-	-	-	-
35	+	-	-	-	-	-

Conductor cross section [mm ²]	Number of single conductors, flexible Cu conductors with different cross-sections, without sleeves								
	1	2	3	4	5	6	7	8	9
1,5	+	-	-	-	-	-	-	-	-
2,5	+	+	-	-	-	+	-	-	-
4	-	+	+	-	-	-	+	-	-
6	-	-	+	+	-	+	-	+	-
10	-	-	-	+	+	-	+	-	+
16	-	-	-	-	+	-	-	+	-
25	-	-	-	-	-	-	-	-	+
35	-	-	-	-	-	-	-	-	-

Ambient temperature T (°C)	Standards											
	16A 2 pole	16A 4 pole	25A 2 pole	25A 4 pole	40A 2 pole	40A 4 pole	63A 2 pole	63A 4 pole	80A 2 pole	80A 4 pole	100A 2 pole	100A 4 pole
40°	16	16	25	25	40	40	63	63	80	80	100	100
45°	14	14	22	22	37	37	59	59	76	76	95	95
50°	11	1	19	19	33	34	55	55	72	72	90	90
55°	9	9	16	16	30	31	50	50	68	68	85	85
60°	-	-	-	-	26	27	45	45	64	64	80	80

RCCB Residual Current Circuit Breaker 6kA, type AC, 30mA



BC606103

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,03A		BC602203
40A / 2 / 0,03A		BC604203
63A / 2 / 0,03A		BC606203
4-pole		
25A / 4 / 0,03A		BC602103
40A / 4 / 0,03A		BC604103
63A / 4 / 0,03A		BC606103

RCCB Residual Current Circuit Breaker 6kA, type AC, 100mA



BC606110

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,1A		BC602210
40A / 2 / 0,1A		BC604210
63A / 2 / 0,1A		BC606210
4-pole		
25A / 4 / 0,01A		BC602110
40A / 4 / 0,1A		BC604110
63A / 4 / 0,1A		BC606110



 RCCB Residual Current Circuit Breaker 6kA, type AC, 300mA



BC604130

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,3A		BC602230
40A / 2 / 0,3A		BC604230
63A / 2 / 0,3A		BC606230
4-pole		
25A / 4 / 0,3A		BC602130
40A / 4 / 0,3A		BC604130
63A / 4 / 0,3A		BC606130



Order no. blue: on stock, usually ready for delivery on the day of order