

RCCB Residual Current Circuit Breaker series BCF0, 10kA, type AC



BC004110

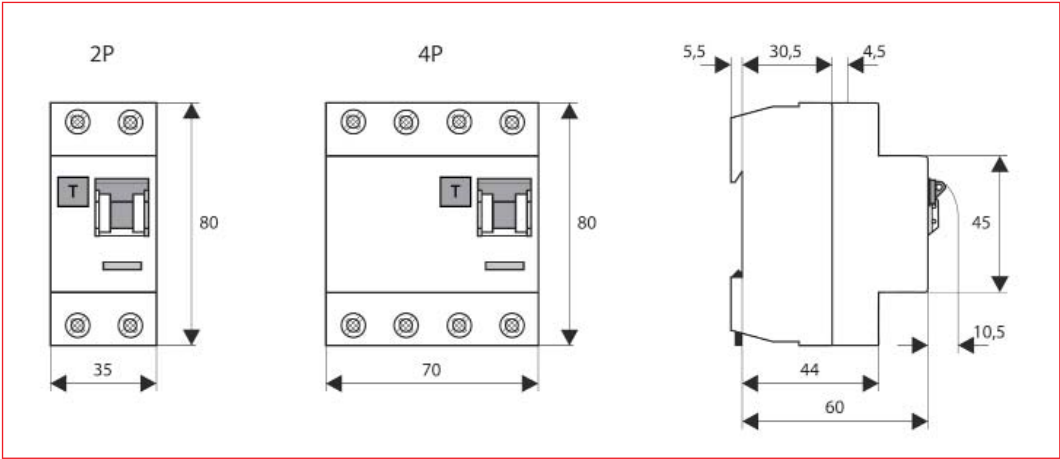
Schrack-Info

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

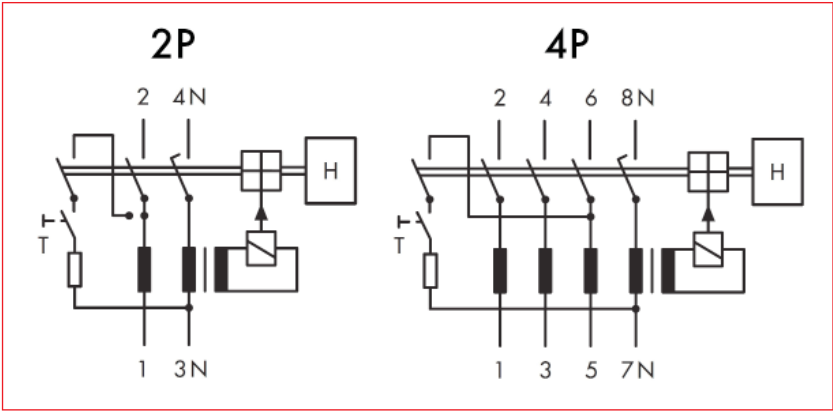
Standards:	IEC/EN 61008	
Pole	2-pole, 4-pole	
Rated voltage U_n :	230V/240V	
2-pole	230/400 and 240/415V-AC	
4-pole		
Rated frequency:	50/60Hz	
Rated current I_n :	25A, 40A, 63A, 80A, 100A	
Tripping-type:	AC (AC-sensitive)	
Rated current Δn :	30mA, 100mA, 300mA	
Delay-type:	undelayed	
Surge current proof:	>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	
$I_n = 80A$	800A	
$I_n = 100A$	1000A	
Rated short-circuit capacity I_{cn} :	10kA 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
$I_n = 80A$	50A gG/gL	80A gG/gL
$I_n = 100A$	63A gG/gL	100A gG/gL
back up fuse proof $I_n = 40A$ vsf.	40A gG/gL	80A gG/gL
back up fuse proof $I_n = 63A$ vsf.	63A gG/gL	80A 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 - 100A	-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



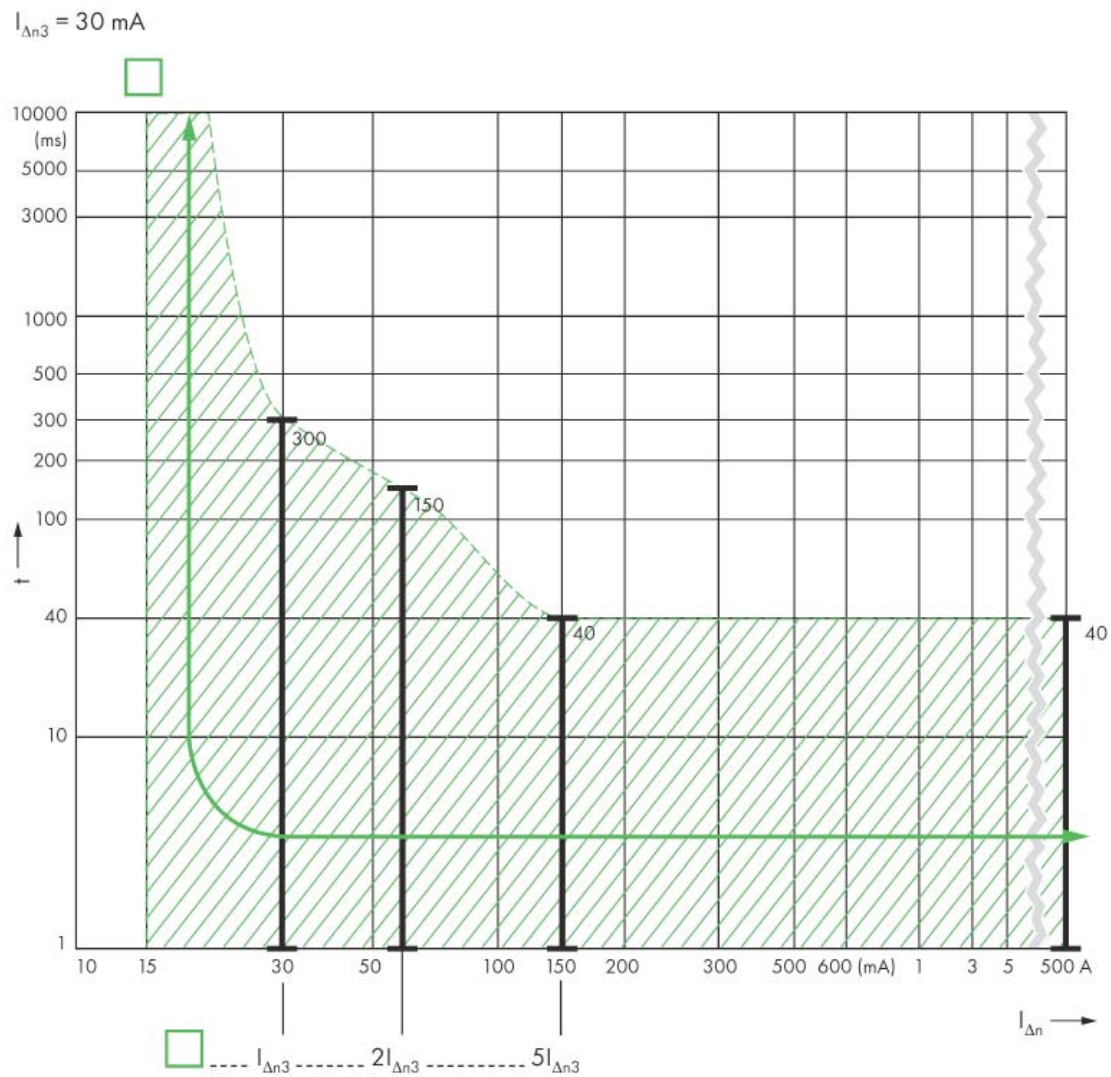
Wiring diagram



Ambient temperature	Type											
	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	11	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 series BCF0, 10kA, type AC

■ 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	-	-	-	-	-	-	-	-	-

■ RCCB Residual Current Circuit Breaker series BCF0, 10kA, type AC, 30mA



BC002203



BC004103

■ Schrack-Info

Most common accessories: Auxiliary contact 1 NO / 1 NC
BD900002

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,03A		BC002203
40A / 2 / 0,03A		BC004203
63A / 2 / 0,03A		BC006203
80A / 2 / 0,03A		BC008203
4-pole		
25A / 4 / 0,03A		BC002103
40A / 4 / 0,03A		BC004103
40A / 4 / 0,03A back-up fuse proof		BC004403
63A / 4 / 0,03A		BC006103
63A / 4 / 0,03A back-up fuse proof		BC006603
80A / 4 / 0,03A		BC008103
100A / 4 / 0,03A		BC000103

■ RCCB Residual Current Circuit Breaker series BCF0, 10kA, type AC, 100mA



BC004110

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,1A		BC002210
40A / 2 / 0,1A		BC004210
4-pole		
25A / 4 / 0,1A		BC002110
40A / 4 / 0,1A		BC004110
40A / 4 / 0,1A back-up fuse proof		BC004410
63A / 4 / 0,1A		BC006110
63A / 4 / 0,1A back-up fuse proof		BC006610
80A / 4 / 0,1A		BC008110
100A / 4 / 0,1A		BC000110



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

RCCB Residual Current Circuit Breaker series BCF0, 10kA, type AC, 300mA



BC000130

DESCRIPTION	AVAILABLE	ORDER NO.
2-pole		
25A / 2 / 0,3A		BC002230
40A / 2 / 0,3A		BC004230
63A / 2 / 0,3A		BC006230
4-pole		
25A / 4 / 0,3A		BC002130
40A / 4 / 0,3A		BC004130
63A / 4 / 0,3A		BC006130
80A / 4 / 0,3A		BC008130
100A / 4 / 0,3A		BC000130

