

RCCB Residual Current Circuit Breaker series BCFO, 10kA, type A, frequency converter proof



BC094130

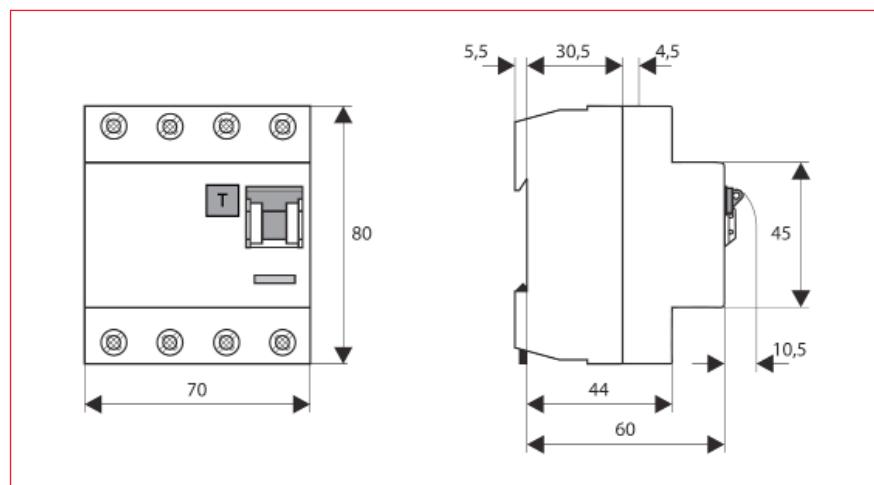
Schrack-Info

- Special tripping curve for applications with frequency converters
- Sensitivity: pulse current sensitive (type A)
- Type S, selective, delayed at least 40ms
- Tripping independent of line voltage
- Contact position color indicator (red/green)
- Most common accessories: auxiliary contact 1 NO / 1 NC BD900002

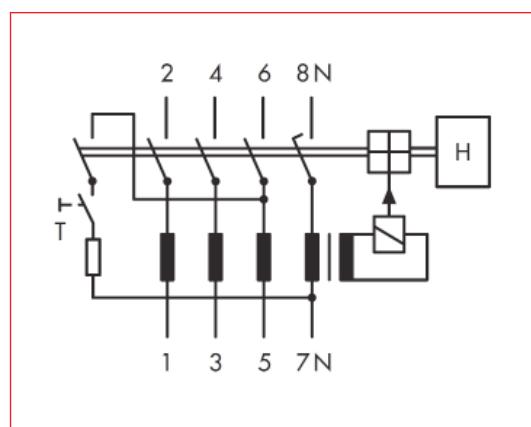
Standards:	IEC 61008 / EN 61008		
Pole	4-pole		
Rated voltage Us:	230/400 and 240/415V-AC		
4-pole	50/60Hz		
Rated frequency:			
Rated current In:	40A, 63A, 80A, 100A		
Tripping-type:	A (pulse current sensitive)		
Tripping curve:	frequency converter proof		
Rated current IΔn:	30mA, 100mA, 300mA		
Delay-type:			
30mA	G (ÖVE/ÖNORM E 8601), at least 10ms		
100mA, 300mA	S (IEC/EN 61008), selective		
Surge current proof:			
30mA	>3kA (8/20 µs) Type G		
100mA, 300mA	>5kA (8/20 µs) Type S		
Tripping:	line voltage-independent		
Rated insulation voltage Ui:	440V		
Rated impulse withstand voltage Uimp:	4kV (1.2/50 µs)		
Rated breaking capacity Im and rated residual making IΔm:			
I _n = 40A	500A		
I _n = 63A	630A		
I _n = 80A	800A		
I _n = 100A	1000A		
Rated short-circuit capacity Icn:	10kA according EN 61008		
Max. back up fuse:	overload (OPCD): 25A gG/gL 40A gG/gL 50A gG/gL 63A gG/gL 63A gG/gL	short circuit (SCPD): 63A gG/gL 63A gG/gL 80A gG/gL 100A gG/gL 80A gG/gL	
I _n = 40A			
I _n = 63A			
I _n = 80A			
I _n = 100A			
back up fuse proof I _n = 63A vsf.			
Operating voltage test-circuit:	195,5 - 440V-AC		
Endurance:	> 4.000 operating cycles (mechanical > 20.000)		
Lamp strength:	max. 20 electronic ballasts per phase, max. 60 per RCCB (typical, commercially available)		
Contact position indicator:	red / green		
Rated tripping temperature:	-25°C up to +40°C		
Max. ambient temperature:	-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.		

RCCB Residual Current Circuit Breaker series BCF0, 10kA, type A, frequency converter proof

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	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 series BCF0, 10kA, type A, frequency converter proof

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									
	1,5	2,5	4	6	10	16	25	35	40	50
1,5	+	-	-	-	-	-	-	-	-	-
2,5	+	+	-	-	-	+	-	-	-	-
4	-	+	+	-	-	-	+	-	-	-
6	-	-	+	+	-	-	+	-	+	-
10	-	-	-	+	+	+	-	+	-	+
16	-	-	-	-	-	+	-	-	+	-
25	-	-	-	-	-	-	-	-	-	+
35	-	-	-	-	-	-	-	-	-	-

■ RCCB Residual Current Circuit Breaker 10kA, type A, version G, frequency converter proof 30mA



BC094103

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,03A		BC094103
63A / 4 / 0,03A		BC096103

■ RCCB Residual Current Circuit Breaker 10kA, type A, S, frequency converter proof, 100mA



BC096110

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,1A		BC094110
63A / 4 / 0,1A		BC096110
63A / 4 / 0,1A back-up fuse proof		BC096610

■ RCCB Residual Current Circuit Breaker 10kA, type A, S, frequency converter proof, 300mA



BC096130

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,3A		BC094130
63A / 4 / 0,3A		BC096130
63A / 4 / 0,3A back-up fuse proof		BC096630
80A / 4 / 0,3A		BC098130
100A / 4 / 0,3A		BC090130

