

RCCB Residual Current Circuit Breaker series BCF0, 10kA, type A, S



BC064110

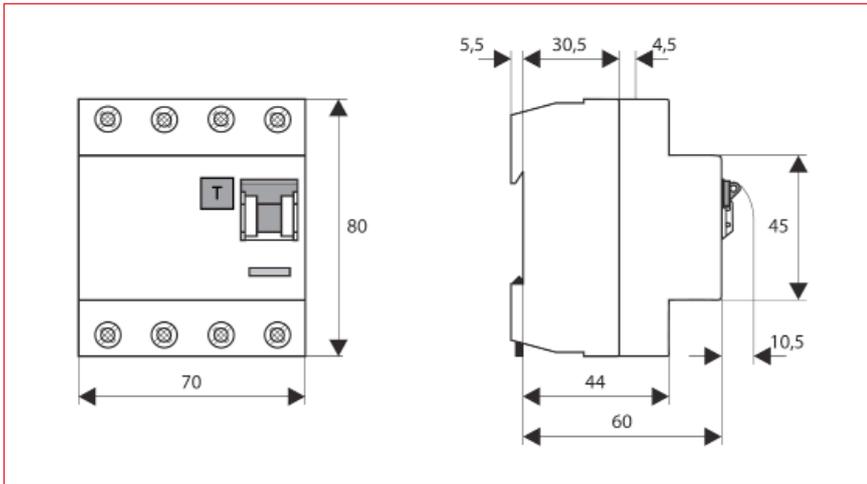
Schrack-Info

- 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

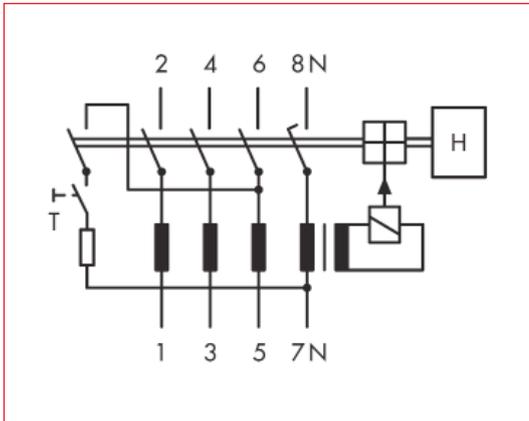
Standards:	IEC/EN 61008	
Pole	4-polig	
Rated voltage Us: 4-pole	230/400 and 240/415V-AC	
Rated frequency:	50/60Hz	
Rated current In:	40A, 63A, 80A, 100A	
Tripping-type:	A (pulse current sensitive)	
Rated current IΔn:	100mA, 300mA	
Delay-type:	S (IEC/EN 61008), selective	
Surge current proof:	>5kA (8/20 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):	short circuit (SCPD):
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:	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.	

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▀ Dimensions

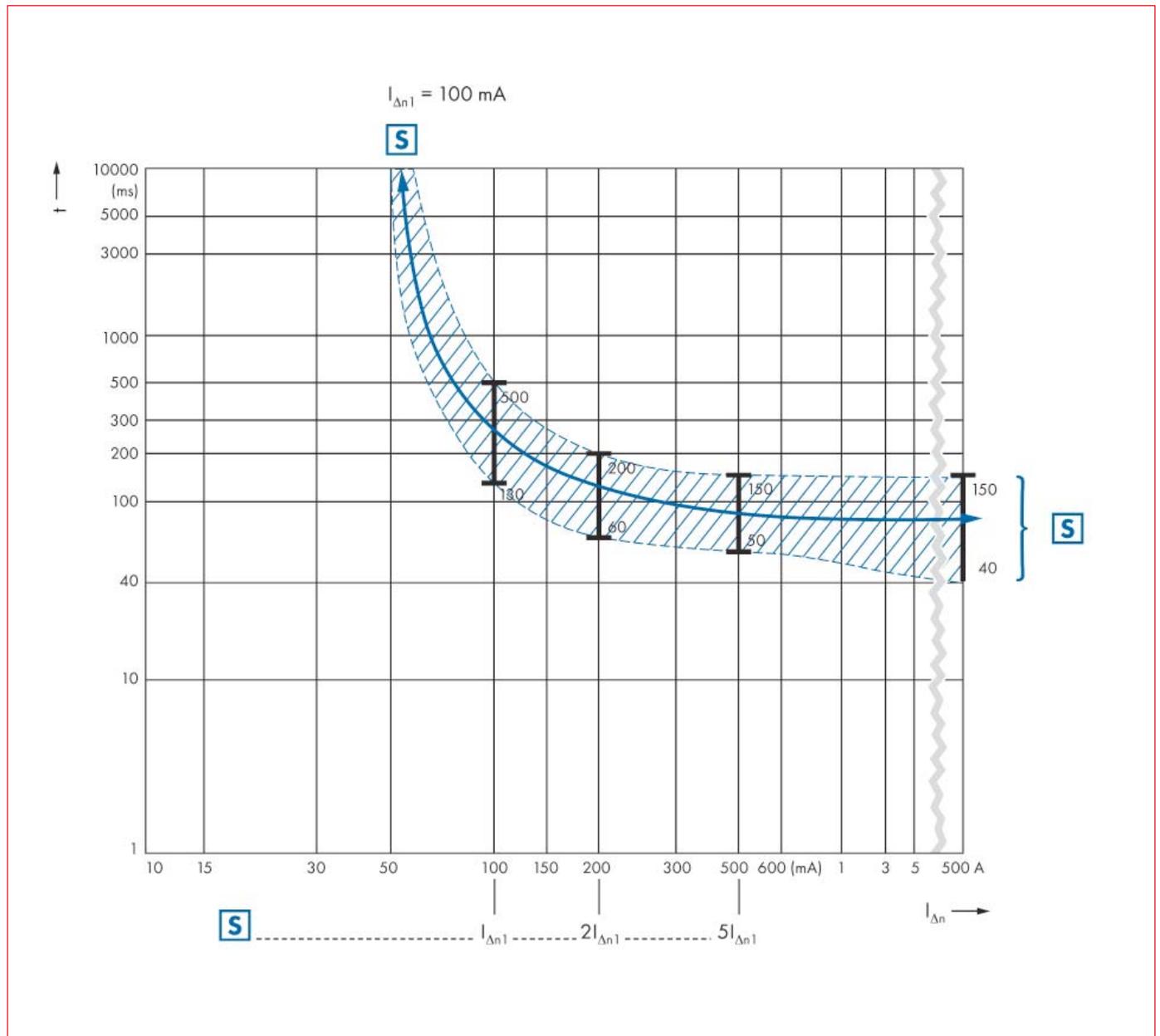


▀ Wiring diagram



RCCB Residual Current Circuit Breaker series BCF0, 10kA, type A, S

Tripping characteristic selective (S)



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

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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 10kA, type A, S, 100mA



BC064110

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,1A		BC064110
40A / 4 / 0,1A back-up fuse proof		BC064410
63A / 4 / 0,1A		BC066110
63A / 4 / 0,1A back-up fuse proof		BC066610

RCCB Residual Current Circuit Breaker 10kA, type A, S, 300mA



BC064130

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,3A		BC064130
63A / 4 / 0,3A		BC066130
63A / 4 / 0,3A back-up fuse proof		BC066630
80A / 4 / 0,3A		BC068130
100A / 4 / 0,3A		BC060130

