## RCCB Residual Current Circuit Breaker, series FID-B, type B



#### Schrack-Info

- Type B: sensitive to DC and AC residual currents up to 100 kHz
- For installations with electronic equipment, according to VDE 0160/EN 50178, such as frequency converters, UPS systems, switching power supplies or high-frequency power converters.
- ٠ 10 ms tripping delay type G
- Tripping independent of line voltage •
- Contact position color indicator •
- Multifunction switch toggle with three positions: "on", "off" and "tripped" •

#### BD874103

EN 61008, VDE 0664 (part 10, 30 and 100), VDE 0839 part 6-2, ÖVE/ÖNORM E 8601				
4 pala				

Standards:	EN 61008, VDE 0664 (part 10, 30 and 100), VDE 0839 part 6-2, ÖVE/ÖNORM E 8601			
Pole	4-p	oole		
Rated voltage Us:	400V-AC			
Rated frequency:	50			
Rated current In:	40A, 63	3A, 80A		
Tripping-type:	B (detection of smooth DC residue	al current and AC residual current)		
Rated current I∆n:	30mA, 100r	mA, 300mA		
Delay-type:	short time delay 10ms, accord	short time delay 10ms, according ÖVE/ÖNORM E 8601		
Surge current proof:	>3kA (8/20	μs), Type G		
Tripping:	line voltage-independent (Type A/AC	operation), 50V-AC (Type B operation)		
Rated insulation voltage Ui:	40	0V		
Rated impulse withstand voltage Uimp:	4kV (1.2	2/50 μs)		
Rated breaking capacity Im and		·		
rated residual making I∆m:				
$I_n = 40A$	50	0A		
I <sub>n</sub> = 63A	63	0A		
I <sub>n</sub> = 80A	80	800A		
Rated short-circuit capacity Icn:	10kA accordi	ng EN 61008		
Max. back up fuse:	overload (OPCD):	short circuit (SCPD):		
l <sub>0</sub> = 40A	40A gG/gL	100A gG/gL		
I <sub>0</sub> = 63A	63A gG/gL	100A gG/gL		
I <sub>n</sub> = 80A	80A gG/gL	125A gG/gL		
Operating voltage test-circuit:	250 - 4	00V-AC		
Endurance:	> 2.000 operating cycle	es (mechanical > 5.000)		
Lamp strength:	max. 20 electronic ballasts per phase, max. 6	0 per RCCB (typical, commercially available)		
Tripping indicator:	red / green			
Rated tripping temperature:	-25°C up	to +40°C		
Max. storage and transport temperature:	-35°C up to +75°C			
Climatic proofing:	according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)			
Finger and hand touch safe:	according to BGV A	according to BGV A3 (VDE 0660-514)		
Degree of protection:	IP 20 (cov	ered IP40)		
Operating position:	in any p	in any position		
Terminals:	Double clamp / lift terminal			
Terminal cross-section:	1-50mm <sup>2</sup> solid, flexible or stranded,	1-50mm <sup>2</sup> solid, flexible or stranded, 2x16mm <sup>2</sup> solid, flexible or stranded		
Terminal tightening torque:	2,5-3Nm			
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.			



# MCBs, RCDs and RCCBs, RCBOs

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#### Wiring diagram





# MCBs, RCDs and RCCBs, RCBOs

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Page 209

# MCBs, RCDs and RCCBs, RCBOs





#### BD876103

Page 210

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,03 A		BD874103
63A / 4 / 0,03 A	333 0-0	BD876103
80A / 4 / 0,03A		BD878103

### RCCB Residual Current Circuit Breaker series FID-B, type B, 100mA



#### BD874110

DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,1 A		BD874110
63A/4/0,1A		BD876110
80A / 4 / 0,1A		BD878110

## RCCB Residual Current Circuit Breaker series FID-B, type B, 300mA



DESCRIPTION	AVAILABLE	ORDER NO.
4-pole		
40A / 4 / 0,3 A		BD874130
63A/4/0,3 A		BD876130
80A / 4 / 0,3 A		BD878130



