

Residual Current Devices CFI6 DE

- A large spectrum of compact residual current devices for a wide range of applications
- For fault current/residual current protection and additional protection
- Wide variety of nominal currents
- Comprehensive range of accessories
- Real contact position indicator (4-pole)


SG79911



Protective Devices

Residual Current Devices CF16

DE

Conditionally surge current-proof 250 A, type AC 

SG79711



SG79911



$I_n/I_{\Delta n}$ (A)

Type Designation

Article No.

Units per package

2-pole


25/0.03	CF16-25/2/003	235753	1 / 60
25/0.10	CF16-25/2/01	235754	1 / 60
25/0.30	CF16-25/2/03	235755	1 / 60
25/0.50	CF16-25/2/05	235756	1 / 60
40/0.03	CF16-40/2/003	235760	1 / 60
40/0.10	CF16-40/2/01	235761	1 / 60
40/0.30	CF16-40/2/03	235762	1 / 60
40/0.50	CF16-40/2/05	235763	1 / 60
63/0.03	CF16-63/2/003	235768	1 / 60
63/0.10	CF16-63/2/01	235769	1 / 60
63/0.30	CF16-63/2/03	235770	1 / 60
63/0.50	CF16-63/2/05	235771	1 / 60

4-pole

25/0.03	CF16-25/4/003	235776	1 / 30
25/0.10	CF16-25/4/01	235777	1 / 30
25/0.30	CF16-25/4/03	235778	1 / 30
25/0.50	CF16-25/4/05	235779	1 / 30
40/0.03	CF16-40/4/003	235784	1 / 30
40/0.10	CF16-40/4/01	235785	1 / 30
40/0.30	CF16-40/4/03	235786	1 / 30
40/0.50	CF16-40/4/05	235787	1 / 30
63/0.03	CF16-63/4/003	235792	1 / 30
63/0.10	CF16-63/4/01	235793	1 / 30
63/0.30	CF16-63/4/03	235794	1 / 30
63/0.50	CF16-63/4/05	235795	1 / 30

Residual Current Devices CF16

DE

Conditionally surge current-proof 250 A, sensitive to residual pulsating DC, type A 

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$I_n/I_{\Delta n}$ (A)

Type Designation

Article No.

Units per package

2-pole

25/0.03	CF16-25/2/003-A	235757	1 / 60
25/0.10	CF16-25/2/01-A	235758	1 / 60
25/0.30	CF16-25/2/03-A	235759	1 / 60
40/0.03	CF16-40/2/003-A	235764	1 / 60
40/0.10	CF16-40/2/01-A	235765	1 / 60
40/0.30	CF16-40/2/03-A	235766	1 / 60
40/0.50	CF16-40/2/05-A	235767	1 / 60
63/0.03	CF16-63/2/003-A	235772	1 / 60
63/0.10	CF16-63/2/01-A	235773	1 / 60
63/0.30	CF16-63/2/03-A	235774	1 / 60
63/0.50	CF16-63/2/05-A	235775	1 / 60

4-pole

25/0.03	CF16-25/4/003-A	235780	1 / 30
25/0.10	CF16-25/4/01-A	235781	1 / 30
25/0.30	CF16-25/4/03-A	235782	1 / 30
25/0.50	CF16-25/4/05-A	235783	1 / 30
40/0.03	CF16-40/4/003-A	235788	1 / 30
40/0.10	CF16-40/4/01-A	235789	1 / 30
40/0.30	CF16-40/4/03-A	235790	1 / 30
40/0.50	CF16-40/4/05-A	235791	1 / 30
63/0.03	CF16-63/4/003-A	235796	1 / 30
63/0.10	CF16-63/4/01-A	235797	1 / 30
63/0.30	CF16-63/4/03-A	235798	1 / 30
63/0.50	CF16-63/4/05-A	235799	1 / 30

Protective Devices

Sealing Cover Set Z-RC/AK

- for PFIM, PFR, PF6, PF7, CF16, dRCM (not to use for PFDM)

	Type Designation	Article No.	Units per package
2-pole	Z-RC/AK-2TE	285385	10 / 30
4-pole	Z-RC/AK-4TE	101062	10 / 600

xClear

Protective Devices

Residual Current Devices CFI6

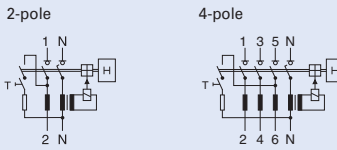
- Residual current devices
- Tripping is line voltage-independent. Consequently, the RCD is suitable for fault current/residual current protection and additional protection (ÖVE/ÖNORM E 8001-1 § 6.1.2)
- Matching with CLS6, CLS4
- Shape compatible with and suitable for standard busbar connection to other devices of the C-series
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Universal tripping signal switch, also suitable for CLS., CKN., Z-A. can be mounted subsequently
- Auxiliary switch Z-HK can be mounted subsequently
- Contact position indicator red - green (CFI6-4-pole)
- Suitable for being used with standard fluorescent tubes with or without electronical ballast (typically up to 20 units per phase conductor)
- The device functions irrespective of the position of installation
- Tripping is line voltage-independent. Consequently, the RCD is suitable for "fault current/residual current protection" and "additional protection" within the meaning of the applicable installation rules
- Mains connection at either side
- The 4-pole device can also be used for 3-pole connection. For this purpose use terminals 1-2, 3-4, and 5-6 (+ cable link).
- The 4-pole device can also be used for 2-pole connection. For this purpose use terminals 5-6 and N-N.

- The test key "T" must be pressed every month. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed)
- Pressing the test key "T" serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R_E), or proper checking of the earth conductor condition redundant, which must be performed separately.
- **Type -A:** Protects against special forms of residual pulsating DC which have not been smoothed

Accessories:

Auxiliary switch for subsequent installation to the left	Z-HK	248432
Remote tripping module	Z-FAM	248293
Switching interlock	IS/SPE-1TE	101911

Connection diagrams



Technical Data

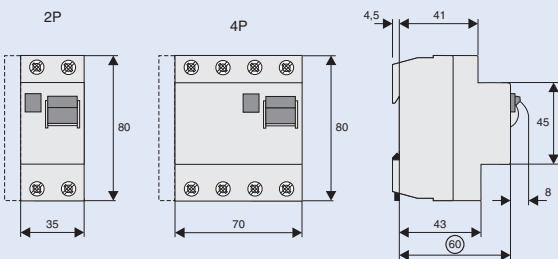
Electrical

Design according to	IEC/EN 61008
Current test marks as printed onto the device	
Tripping	instantaneous
Rated voltage U_n	230/400 V; 50 Hz
Rated tripping current $I_{\Delta n}$	30, 100, 300, 500 mA
Sensitivity	AC and pulsatory DC
Rated insulation voltage U_i	440 V
Rated peak withstand voltage U_{imp}	4 kV (1.2/50 μ s)
Rated short circuit strength I_{nc}	6 kA
	with back-up fuse 63 A gG/gL
Maximum back-up fuse	Short circuit 63 A gG/gL
Rated breaking capacity I_m or	
Rated fault breaking capacity $I_{\Delta m}$	
$I_n = 25-40A$	500 A
$I_n = 63A$	630 A
Voltage range of test button	2-pole 184 - 250 V~
	4-pole 184 - 440 V~
Endurance	
electrical comp.	$\geq 4,000$ operating cycles
mechanical comp.	$\geq 20,000$ operating cycles

Mechanical

Frame size	45 mm
Device height	80 mm
Device width	35 mm (2MU), 70 mm (4MU)
Mounting	quick fastening with 2 lock-in positions on DIN rail IEC/EN 60715
Degree of protection, built-in	IP40
Upper terminals	lift terminals
Lower terminals	open-mouthed/lift terminals
Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity	1.5 - 35 mm ² single wire 2 x 16 mm ² multi wire
Busbar thickness	0.8 - 2 mm
Tripping temperature	-25°C to +40°C
Storage- and transport temperature	-35°C to +60°C
Resistance to climatic conditions	25-55°C/90-95% relative humidity acc. to IEC 60068-2

Dimensions (mm)



RCD CFI6 in a Three-Phase AC Network without Neutral Conductor



The N-terminal must be connected by a cable link with the phase L2 (or L1), so that the test loop is supplied with current and the RCD is tested correctly.