## **FI Earth Leakage Circuit Breakers**

FI compact Earth Leakage Circuit Breakers detect and interrupt earth (ground) faults. They are VDE approved for the European system of protecting people, animals, equipment and property from dangerous line-to-ground and shock hazard currents.

US applications include groundfault protection of equipment (GFPE) using the 10mA and 30mA fault current ratings, especially when high distributed capacitance or other leakages cause excessive nuisance trips at lower fault currents. Applications for the 300mA rating are equipment protection and fire preve tion, limiting the energy of a fa to less than the minimum ignition energy for many materials.

## **Type Designation**

- $\overline{(a)}$   $\overline{(b)}$   $\overline{(c)}$
- (a) = 2-2 pole; 4-4 pole
- (b) = 1-16A; 2-25A; 3-40A; 4-63A

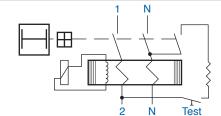
(c) = 01 - 10mA

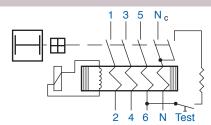
= 03 - 30mA

= 30 - 300mA		
Voltage Rating (maximum)	240VAC, 50/60Hz (VDE: 125/220VAC, 50Hz)	415VAC, 50/60Hz (400Hz available on request) (VDE: 220/380VAC, 50Hz)
Short Circuit Capacity	Up to rated current (RC) 40A = 1.5kA, RC 63A = 2kA. 10 European Operation Class gL/gG: RC 16A = 63A fuse, R	
Fault Trip Current Calibration	FI trips are calibrated at less than fault trip current for en 66.6-83.3% fault trip current, e.g., typical trip at 20-25mA	
Typical Life	Fully functional after 4,000 operations to DIN/VDE 0664	(CEE27) and 16000 additional fault current trips.
Standard Pack and Weight	1/290g (0.64 lb.); 1/390g (0.86 lb.) with auxiliary contact	1/450g (1.0 lb.) 1/550g (1.21 lb.) with auxiliary contact
Terminal Size Acceptability	16-6 AWG	14-3 AWG
Equivalent Circuit		

- a For 2-Phase applications, terminal 5 and 6 (next to Neutral terminals) must be connected to one phase for the test circuit to be operable.
- b Provided with mounted Auxiliary Switch, one N.O., one N.C. isolated feedthrough contact (Form X double make and Y double break), which adds 9mm (.35 in.) to the width dimension.
- <sup>c</sup> For voltage systems without a neutral conductor. Please use jumper from "1" or "3" to top "N" terminal. This will assure proper functioning of the "test" circuit.

Note: If the power system has a marked conductor, it must connect through the FI and not be grounded at any point downstream.





## **HFI11 - Auxiliary Switch**

Ham	Contact Rating	Wire Size	Туре	Cat. No.
	6A / 230V AC 1A / 220V DC or pulsed Std. Pk.: 1 Unit Weight: 45 grams (0.12 lb.) Width: 9mm (.354in.)	4mm <sup>2</sup> (12 AWG)	HFI11	15.991





**FI 2** 

Туре

FI 21.01

FI 22.03

Cat. No.

15.921

15.922

Fault

10mA

30mA

Current

Trip

Maximum

Rated

Current

Line

16A

25A

FI 4<sup>a</sup>

Cat. No.

15.926

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Туре

FI 42.03

uip- /en- ault tion	25A 25A	300mA	FI 22.30	15.924		300mA	FI 42.30	15.929	
	40A 40A	30mA 300mA	FI 23.03 FI 23.30	15.923 15.925		30mA 300mA	FI 43.03 FI 43.30	15.927 15.930	
	63A 63A					30mA 300mA	FI 44.03 FI 44.30	15.928 15.931	
	Earth Leakage Circuit Breaker with Auxiliary Contacts <sup>b</sup>					Earth Leakage Circuit Breaker with Auxiliary Contacts <sup>b</sup>			
A	25A 40A 63A	30mA 30mA	FI 22.03Y FI 23.03Y			30mA 30mA 30mA	FI 42.03Y FI 43.03Y FI 44.03Y	15.933 15.935 15.936	
	240VAC, 50/60Hz (VDE: 125/220VAC, 50Hz)					415VAC, 50/60Hz (400Hz available on request) (VDE: 220/380VAC, 50Hz)			
	Up to rated current (RC) 40A = 1.5kA, RC 63A = 2kA. 10kA in combination with series fuse of								

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Fault

Current

30mA

Trip

## **Mouser Electronics**

Authorized Distributor

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Altech:

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