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, espe cially when high distributed capacitance or other leakages cause excessive nuisance trips at lower fault currents. Applications for the 300mA rating are equip ment protection and fire prevention, limiting the energy of a fault to less than the minimum ignition energy for many materials.

Type Designation

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(b) · (c)
(a)
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(a
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(a) = 2-2 pole; 4-4 pole	with Auxiliary Contacts ^b					with Auxiliary Contacts ^b				
(b) = 1-16A; 2-25A; 3-40A; 4-63A	25A	30mA	FI 22.03Y	15.932	DE	30mA	FI 42.03Y	15.933	DE	
(c) = 01 - 10mA	40A	30mA	FI 23.03Y	15.934	DE	30mA	FI 43.03Y	15.935	DE	
= 03 - 30mA	63A					30mA	FI 44.03Y	15.936	DE	
= 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. 10kA in combination with series fuse of									
Short Circuit Capacity	European Operation Class gL/gG : RC 16A = 63A fuse, RC 25/40A = 80A fuse, RC 63A = 100A fuse.									
Fault Trip Current Calibration	FI trips are calibrated at less than fault trip current for ensured safety (Typical trip range between 66.6-83.3% fault trip current, e.g., typical trip at 20-25mA for fault RC of 30mA)									
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.
- ^c 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 ² (12 AWG)	HFI11	15.991





Туре

FI 42.03

FI 42.30

FI 43.03

FI 43.30

FI 44.03

FI 44.30

Earth Leakage Circuit Breaker

Fault

Current

30mA

30mA

300mA

30mA

300mA

300mA

Trip

FI 2

Туре

FI 21.01

FI 22.03

FI 22.30

FI 23.03

FI 23.30

Cat. No.

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15.921

15.922

15.924

15.923

15.925

Fault

10mA

30mA

300mA

30mA

300mA

Earth Leakage Circuit Breaker

Current

Trip

Maximum

Rated Line

16A

25A

25A

40A

40A

63A

63A

Current

FI 4^a

Cat. No.

15.926

15.929

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15.930

15.928

15.931

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