DFS Series RCCB Earth Leakage Circuit Breakers

RCCB Series compact Earth Leakage Circuit Breakers detect and interrupt earth (ground) faults. They are VDE approved for the European System (NOT UL Approved as GFCI) of protecting people animals, equipment and property

from dangerous line-to-ground and hock hazard currents. US applications include ground-

fault 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 and 500mA ratings are equipment protection and fire prevention, limiting the energy of a fault to less than the minimum ignition energy for many materials. **Type Designation**

DFS T <u>/h</u>)

DFS	(a)	(b)	(c)
(a): 11 =	= 16A,	12 = 25A,	13 = 40A,
14 =	= 63A,	15 = 80A,	16 = 100A,
17 =	= 125A		
(b): 2 =	10mA.	4 = 30 m/	۹.

- 6 = 300mA, 7 = 500mA (c): 601 = 2 pole, 911 = 4 pole
- Voltage Rating (maximum) Min Operating Voltage Ban of Test Circuit Short Circuit Withstand Ra

25/40/63A: 100A; RC 80/100/125A: 125A

Fault Trip Current Calibration

	00.000.0 / laut the current, e.g., typical the at 20-20m for laut no of 30mAy		
Typical Life	Fully functional after 5,000 operations to DIN/VDE 0664T10, IEC 61008-1 and 2000 additional fault current trips.		
Standard Pack and Weight	1/230g (0.6 lb.)	1/420-460g (0.9 lb1.0 lb.)	
Terminal Size Acceptability	1.5-50mm ² (16-1 AWG)	1.5-50mm ² (16-1 AWG)	
Terminal Torque	3Nm (26.5 lb.in.)	3Nm (26.5 lb.in.)	

^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 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 DFS and not be grounded at any point downstream.



Cat. No.

0911260

0912460

0912660

0913460

0913660

0914460

0914660

Fault

Trip Current

10mA

30mA

300mA

30mA

300mA

30mA

300mA

500mA

Maximum Rated

Line

16A

25A

25A

25A

40A

40A

40A

63A

63A

63A

80A

80A 80A

100A

100A 100A 125A 125A 125A

Current



-	Supersedes	Fault Trip Current	Cat. No.	Supersedes
1	RP2101			
1	RP2203 RP2230	30mA 300mA 500mA	09124911 09126911 09127911	RP4203 RP4230 RP4250
1	RP2303 RP2330	30mA 300mA 500mA	09134911 09136911 09137911	RP4303 RP4330 RP4350
1	RP2403 RP2430	30mA 300mA 500mA	09144911 09146911 09147911	RP4403 RP4430 RP4450
		30mA 300mA 500mA	09154911 09156911 09157911	RP4503 RP4530 RP4550
		30mA 300mA 500mA	09164911 09166911 09167911	RP4603 RP4630 RP4650
		30mA 300mA 500mA	09174911 09176911 09177911	RP4703 RP4730 RP4750

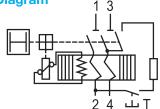
Stock items are shown in BOLD.

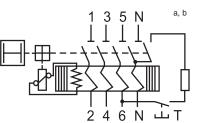
)	230V AC, 50Hz	400Y/230V AC, 50Hz
nk	150V	200V
ating	No back-up fuse: Rated current (RC) 16/25/40A: 500A; RC 1250A. With back-up fuse: 10kA; Size of fuse: (2 pole version of the second sec	

DFS 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 BC of 30mA)

Circuit Diagram





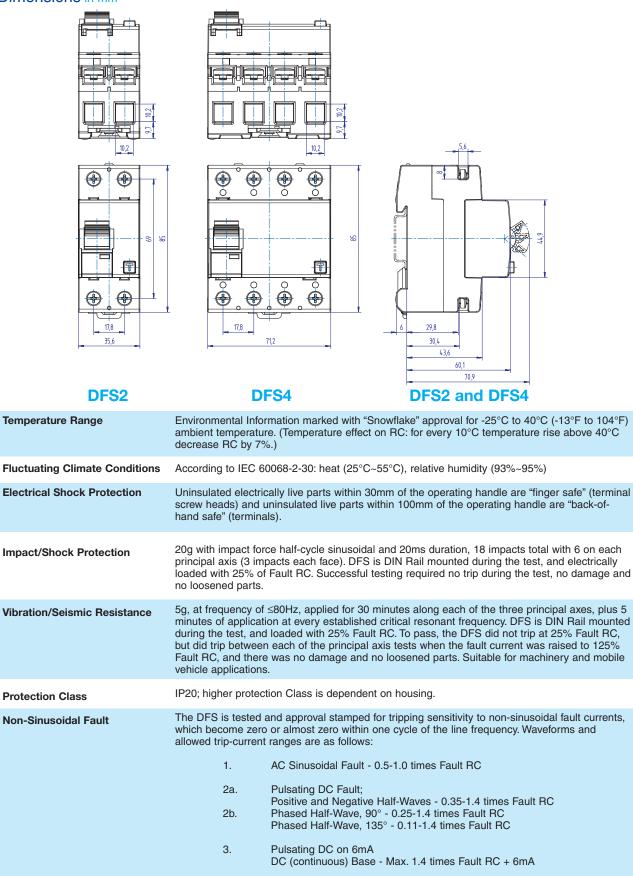
DHI11 - Auxiliary Switches / Error Signal Switch

Contact Rating	Wire Size	Torque	Cat. No.	Supersedes	Circuit Diagram
6A / 230V AC 1A / 110V DC Std. Pk.: 1 Unit Weight: 45 (Width: 9mm (.35		max. 0.8Nm (7lb.in.))	DHI11	RH11	12 14 22 21 11

Earth Leakage **Circuit Breakers**

<u>Altech Corp.</u>®

Dimensions in mm



Insulation Category

At VDE rated voltage, suitable for Class C environments with relatively high dust and moisture levels and little HVAC control, e.g., industrial, commercial, agricultural; on machine tools, hoists, warehouse equipment, etc.; in boiler rooms, unheated storage, covered shipping/receiving, open workshops, etc.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

09134601 09134911 09112601 09124911 09144601 09166911 09124998 09176911 09167911