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 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 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

RP	(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,

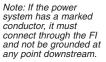
6 = 300mA, 7 = 500mA 1. 601 2 nola 911 4 nole

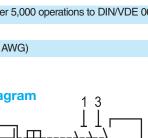
(c): $601 = 2$ pole, $911 = 4$ pole	Stock items are shown i	n BOLD.	
Voltage Rating (maximum)	230V AC, 50Hz	400Y/230V AC, 50Hz	
Min Operating Voltage Bank of Test Circuit	150V	200V	
Short Circuit Withstand Rating	No back-up fuse: Rated current (RC) 16/25/40A: 500A; RC 63/80A: 800A; RC 100A: 1000A; RC 125A- 1250A. With back-up fuse: 10kA; Size of fuse: (2 pole version): RC 25/40/63: 100A; (4 pole version): RC 25/40/63A: 100A; RC 80/100/125A: 125A		
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 5,000 operation	ations 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	Circuit Diagram	13 135 N ^{a, b}	

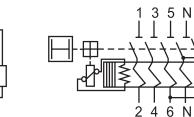
- be connected to one phase for the test circuit to be operable.
- ^b For voltage systems without a neutral conductor. Please use jumper from "1" or "3" to top "N" terminal. This will assure proper functioning of the "test" circuit.

Earth Leakage **Circuit Breakers**









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2 **DHI11 - Auxiliary Switches / Error Signal Switch**

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



Cat. No.

09112601

09124601

09126601

09134601

09136601

09144601

09146601

Supersede

RP2101

RP2203

RP2230

RP2303

RP2330

RP2403

RP2430

Fault

Trip

Current

10mA

30mA

300mA

30mA

300mA

30mA

300mA

500mA

Maximum

Rated

Current

Line

16A

25A

25A

25A

40A

40A

40A

63A

63A

63A

80A

80A

80A

100A 100A 100A 125A 125A

125A



Fault



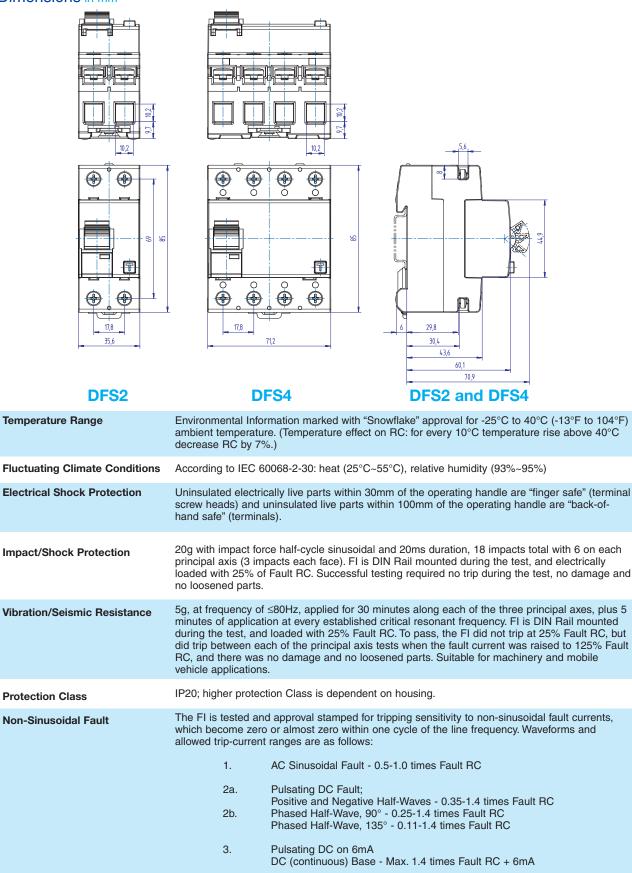
s	Trip Current	Cat. No.	Supersedes
	30mA	09124911	RP4203
	300mA	09126911	RP4230
	500mA	09127911	RP4250
	30mA	09134911	RP4303
	300mA	09136911	RP4330
	500mA	09137911	RP4350
	30mA	09144911	RP4403
	300mA	09146911	RP4430
	500mA	09147911	RP4450
	30mA	09154911	RP4503
	300mA	09156911	RP4530
	500mA	09157911	RP4550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

(maximum)	230V AC, 50Hz	400Y/230V AC, 50Hz	
/oltage Bank	150V	200V	
thstand Rating	No back-up fuse: Rated current (RC) 16/25/40A: 500A; RC 63/80A: 800A; RC 100A: 1000A; RC 125A- 1250A. With back-up fuse: 10kA; Size of fuse: (2 pole version): RC 25/40/63: 100A; (4 pole version): RC 25/40/63A: 100A; RC 80/100/125A: 125A		

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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.

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Mouser Electronics

Authorized Distributor

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Altech:

<u>RP2203</u> <u>RP4203</u> <u>RP4303</u> <u>RH11</u> <u>RP2101</u> <u>RP2330</u> <u>RP2230</u> <u>RP4403</u> <u>RP2303</u> <u>RP2403</u> <u>RP4430</u> <u>RP4330</u> RP2430 RP4230