

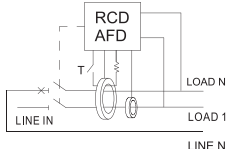
FuseBox 2026 MINI AFDD/RCBO 10 KA 1P+N 6-40A TECHNICAL DATA



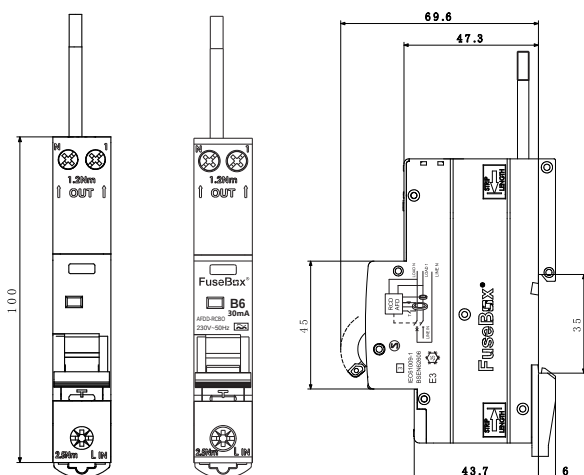
FuseBox®

AFDD_RCBO (ARC FAULT DETECTION DEVICE)

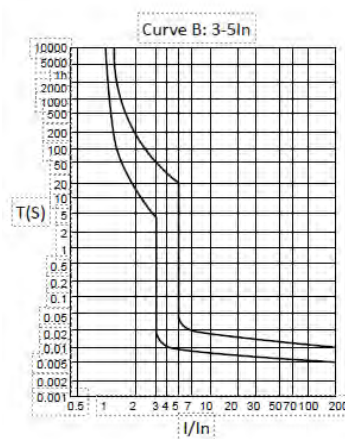
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RATING (A)	6	10	16	20	25	32	40
RATED RESIDUAL OPERATING CURRENT (I Δ n)	30mA	30mA	30mA	30mA	30mA	30mA	30mA
PART NUMBER	MAFDD100630B	MAFDD101030B	MAFDD101630B	MAFDD102030B	MAFDD102530B	MAFDD103230B	MAFDD104030B
GTIN-13	5060523528875	5060523528882	5060523528899	5060523528905	5060523528912	5060523528929	5060523528882
PART NUMBER							
GTIN-13							
STANDARD	IEC 61009-1, BS EN 62606						 
NUMBER OF POLES	1P+N (Switched)						
RATED VOLTAGE (U _n /AC)	230V						
FREQUENCY (Hz)	50/60						
RATED BREAKING CAPACITY (I _{cn})	10000A 10kA						
RATED CURRENT (I _n)	6, 10, 16, 20, 25, 32, 40						
TRIPPING CHARACTERISTICS	B CURVE : 3-5I _n						
RESIDUAL CURRENT CHARACTERISTICS	TYPE A (AC AND PULSATING DC UP TO 6mA)						
RATED RESIDUAL OPERATING CURRENT (I Δ n)	0.03						
MECHANICAL ENDURANCE	10,000						
PROTECTION DEGREE (IP)	20						
MAXIMUM TERMINAL CAPACITY	1-16mm ² IN L / 1-10mm ² OUT N L						
RECOMMENDED TIGHTENING TORQUE (Nm)	2.5Nm IN L / 1.2Nm OUT N L						
FLYING NEUTRAL CABLE LENGTH (mm)	450 (can be cut to suit)						
OVERVOLTAGE PROTECTION	>285V						
MATERIAL	PA6 (Nylon 6)						
WEIGHT (1PC) Kg	0.158						
INNER CARTON QUANTITY	1						
OUTER CARTON QUANTITY	80						
ENERGY LIMITING CLASS	3						
MOUNTING	35mm DIN RAIL MOUNTING						

DIMENSIONS



TRIPPING CHARACTERISTICS



Combined AFDD/RCBO

Combined AFDD RCBO (1P+N) with switched LINE and NEUTRAL.

Used for the protection against ARC FAULTS (SERIES AND PARALLEL), overload, short circuit and earth leakage.

Type A for AC and pulsating DC sensitivity.

Short circuit capacity of 6kA with a maximum rating of 40A.

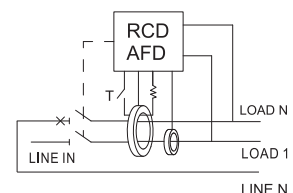
Designed to fit all FuseBox consumer units.

TESTING: Line and Neutral conductors MUST be disconnected for IR (insulation resistance) testing.

NEUTRAL CABLE CSA

6A	2.5 mm ²
10A	2.5 mm ²
16A	2.5 mm ²
20A	2.5 mm ²
32A	4.0 mm ²
40A	4.0 mm ²

Connections



FuseBox 2026 MINI AFDD/RCBO10 KA 1P+N 6-40A TECHNICAL DATA



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INSTRUCTIONS

- 1a AFDD/RCBO must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671.
- 1b Total load must not exceed the rating of the AFDD/RCBO or any additional limitation.

2 Installation

- 2a AFDD/RCBO range designed to fit FuseBox consumer units and modular enclosures.
- 2b 35mm top hat din rail mounting.
- 2c Clip securely on to the din rail making sure the din rail clip at the bottom is pushed in, locking the AFDD/RCBO onto the din rail, ensure lever is in the OFF position.
- 2d Cut, dress and connect cables as shown in the **wiring diagram**.

Lin (Line) terminal connect to the bus bar.

Neutral flying lead to the neutral terminal bar (can be cut to size to suit).

Connect the load to the L OUT and N OUT terminals at the top of the AFDD/RCBO and the Load earth to the terminal bar.

3 Connections

- 3a **Before powering up the circuit check all connections are TORQUED.**

Loose connections cause fires!!!!

4 Testing

- 4a **CONNECTIONS TO THE AFDD/RCBO DO NOT REQUIRE TO BE DISCONNECTED IF THE LEVER IS IN THE "OFF" POSITION FOR IR TEST.**
- 4b On completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring Regulations for Electrical Installations (BS 7671).

Operation of the TEST button on AFDD/RCBO

When newly fitted systems do not trip on the TEST button or using the MFT the problem is normally caused by an earth to neutral fault on the circuit (PME supply). Installers can easily check the AFDD/RCBO by removing the LOAD connections on the device and applying power. If the TEST button works the fault is in the circuit.

RCBO TEST

Combined AFDD/RCBO ARE MANUFACTURED IN ACCORDANCE WITH IEC 61009-1 AND MUST BE TESTED TO THIS SPECIFICATION USING A CALIBRATED TEST METER

0.5IΔn	RCBO will not trip
1Δn	RCBO must trip within 300ms
5IΔn	RCBO must trip within 40ms

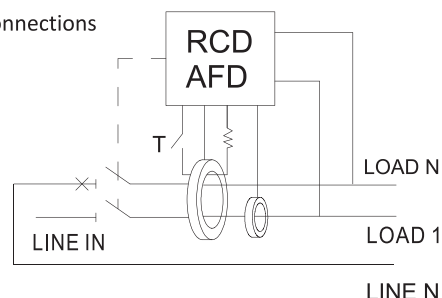
What to do if an AFDD/RCBO trips

- 1 Reset tripped AFDD/RCBO to **ON** position
- 2 Note LED indication - see table below
- 3 If AFDD/RCBO trips again then disconnect all appliances connected to this circuit.
- 4 Switch AFDD/RCBO to ON position and connect 1 appliance at a time to see which one trips the device.
- 5 Once faulty appliance has been identified DO NOT USE until it has been checked.
- 6 Switch AFDD/RCBO to ON position.
- 7 If fault does not clear phone a qualified electrician to check installation

LED Indication

Green LED on	Device operable	●
Red flash x1	Serial or parallel arc detected	●●●●●●●●
Yellow flash x2	Overvoltage >285V	●●●●●●●●●●●●●●
Yellow flash x3	Residual current detected	●●●●●●●●●●●●●●●●●●
Red LED on	Self test failed	●
NO LED	No supply voltage	

Connections



WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF IN HOUSEHOLD WASTE. CONTACT YOUR RETAILER OR LOCAL AUTHORITY FOR RECYCLING INFORMATION

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