



CLICK CU1AFDD6B B Curve AFDD Plus RCBO Type A Alert Electrical Owner's Manual

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ELUCIAN – AFDDS
Increase
Protection
with AFDDS

The smart way to detect arc faults in your circuit.

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What is an AFDD?

An AFDD is a device that is installed in your consumer unit to protect against arc faults. It does this by monitoring the waveform of electricity being used to detect unusual signatures that would signify an arc.

When an arc is detected, power to the circuit is cut off and the threat of fire is minimised. They are specifically designed to be more sensitive to arcs than regular circuit protection devices.



Enhanced Protection Against Arc Faults

The smart way to detect arc faults in your circuit.

With the amendment 2 of the 18th Edition it is now required for AFDDs to be installed for circuits supplying socket outlets in 4 areas;

- High Risk Residential Buildings (18m or 6 Storeys +)

- Houses of Multiple Occupancy (HMO),
- Purpose Built Student Accommodation
- Care Homes



AFDD Detection

Condition	Repeat for 25 Seconds
Series Arc Fault	
Parallel Arc Fault	
Over Voltage Fault	
Self Test Fault	
No Fault	

Self Test Overview:

- The Self Test feature is carried out automatically within each hour.
- In the event of a Self-Test failure, the AFDD will trip with the fault identified by the LED flashing sequence.

What can an AFDD Detect?

• A series arc fault

Is where the arc happens between two parts of the same conductor, such as a broken line conductor or a

poorly terminated line conductor.

- **A parallel arc fault**

Is where the arc occurs between the line conductor and either the neutral or earth conductors. If an arc fault occurs between line and earth there is quite a high likelihood that the RCD part of the AFDD will also operate.

- **Over Voltage Detection**

This may indicate that the property has had a surge in voltage, if this continues you would need to contact the Electricity provider for your property.



B & C Curve

Elucian AFDDs are available in B and C curves, with the following amperages, 6A, 10A, 16A, 20A, 32A and 40A.



Self Test Function

Elucian AFDDs contain inbuilt self-test function which operates initially on first power up and less than once every hour to ensure the device is fully operational.

AFDD & RCBO

1 Pole True 6kA B & C Curve AFDD & RCBO



3 Year Warranty

We provide a 3 year warranty with all our new AFDDs. It reflects the confidence we have in our products and the benefit of years of continuous engineering improvement.



Neutral Out Tails

Elucian AFDDs provide a 450mm Neutral Tail as standard. The AFDDs are also single width (18mm).



Type B Curve AFDD & RCBO	Type C Curve AFDD & RCBO
CU1AFDD6B 1 Pole True 6kA B Curve 6A AFDD & RCBO 30mA	CU1AFDD6C 1 Pole True 6kA C Curve 6A AFDD & RCBO 30mA
CU1AFDD10B 1 Pole True 6kA B Curve 10A AFDD & RCBO 30mA	CU1AFDD10C 1 Pole True 6kA C Curve 10A AFDD & RCBO 30mA
CU1AFDD16B 1 Pole True 6kA B Curve 16A AFDD & RCBO 30mA	CU1AFDD16C 1 Pole True 6kA C Curve 16A AFDD & RCBO 30mA
CU1AFDD20B 1 Pole True 6kA B Curve 20A AFDD & RCBO 30mA	CU1AFDD20C 1 Pole True 6kA C Curve 20A AFDD & RCBO 30mA
CU1AFDD32B 1 Pole True 6kA B Curve 32A AFDD & RCBO 30mA	CU1AFDD32C 1 Pole True 6kA C Curve 32A AFDD & RCBO 30mA
CU1AFDD40B 1 Pole True 6kA B Curve 40A AFDD & RCBO 30mA	CU1AFDD40C 1 Pole True 6kA C Curve 40A AFDD & RCBO 30mA

MAR1133 Errors and Omissions excluded. Specification is subject to change without notice.

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Documents / Resources



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CU1AFDD6B, CU1AFDD10B, CU1AFDD16B, CU1AFDD20B, CU1AFDD32B, CU1AFDD40B, CU1AFDD6C, CU1AFDD10C, CU1AFDD16C, CU1AFDD6B B Curve AFDD Plus RCBO Type A Alert Electrical, CU1AFDD6B, B-Curve AFDD Plus RCBO Type A Alert Electrical, RCBO Type A Alert Electrical, Alert Electrical

References

- [User Manual](#)

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