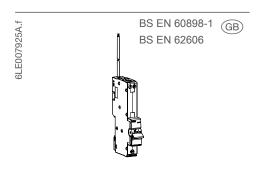


:hager



ARMxxxU

MCB with dangerous arc detection



MCB-AFDD 1M 6A - 32A B and C curve 6kA

B curve	C curve
ARM906U	ARM956U
ARM910U	ARM960U
ARM916U	ARM966U
ARM920U	ARM970U
ARM925U	ARM975U
ARM932U	ARM982U

Safety notice



The AFDD (Arc Fault Detection Device) may only be installed, connected and serviced by a competent electrician. Before mounting, the AFDD must be checked for external damage. If any damage or other defect is found, the device must not be mounted.

The national regulations, safety regulations and installation standards BS 7671 must be observed.

Design and layout of the device

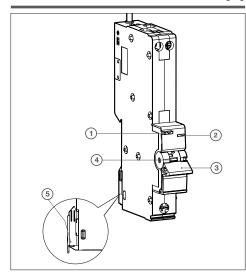


Fig 1: Layout of the device MCB-AFDD

- 1 Test button
- 2 LED status display
- 3 Handle
- 4 Yellow flag
- (5) Mounting metal DIN rail clip

Function



MCB-AFD in 1 module ARMxxxU is a single device consisting of a miniature circuit breaker (MCB) unit with integrated Arc fault detection (AFD) unit (2 in 1).

The AFDD mitigates the risk of a fire in the final electrical circuits of a fixed installation due to arcing fault currents, which under certain conditions present a fire ignition risk due to dangerous arc fault.

Tools

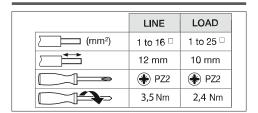


Fig 2: Tools

Information for electricians



Installation and electricial connection

22 ()

DANGER!

Electric shock when touching live parts!

Electric shock can lead to death!

 Before commencing work ensure suitable isolation procedures have been followed.

Mount device

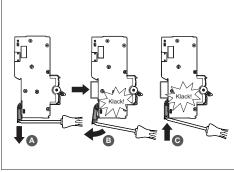


Fig 3: Mounting the MCB-AFDD

- Open the rail clip.
- Insert the AFDD until it is connected.
- Press the metal clamp down.

The AFDD is fixed on the rail.

Connect device

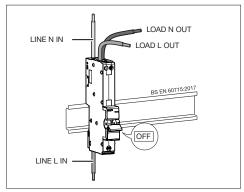


Fig 4: Connect the MCB-AFDD

Wiring diagram

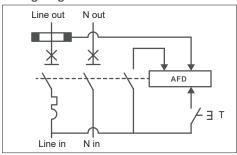


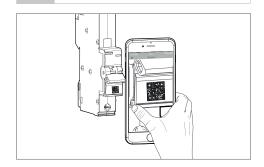
Fig 5: Wiring diagram



Information

For more Information, scan the QR-Code on the product.

For further technical information and for installation in Hager Distribution Board, review the Installation Guidance Notes available in the products download section on Hager website.



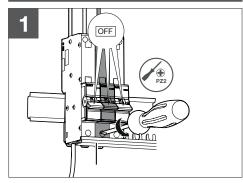
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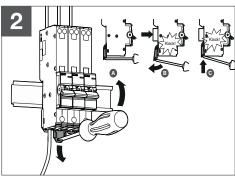


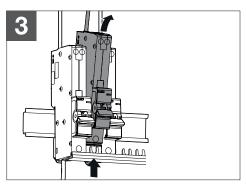




Disassembly







Testing

The test button **T** is used for testing the device. The AFDD should trip following a short press of the test button. Following this the device can be switched on again.

Test device



ATTENTION!

Insulation tests at 500V DC may damage this product!

Do this test only when the handle is off.

If the handle is OFF you don't have to disconnect the cable.



02

Notice

- The AFDD function must be tested after installation. The supply voltage must be present.
- within one second. If the device does not trip, it must be replaced by an competent electrician.

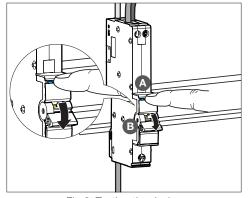


Fig 6: Testing the device

• Short press the test button T. The MCB-AFDD tripped, i.e. the circuit must switch off.



Notice

If the AFDD does not trip, check the status of the LED (table 1).

LED status for troubleshooting

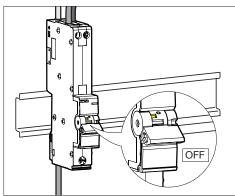


Fig 7: Handle position during testing: OFF The handle is in the **OFF** position.

• Keep the test button T pressed, to open the color code.

INDICATOR		STATE
_	Steady GREEN	AFDD is ON
	LED is OFF	AFDD is OFF
	Blinking RED/ GREEN + yellow flag absence	AFDD manual tripped
	Blinking RED/ GREEN + yellow flag presence	Overload or Short-Circuit
×1 × ×1 ×	Blinking RED/ YELLOW	Series arc fault
× 1 ×	Blinking RED	Parallel arc fault
	Steady YELLOW	Overvoltage
<u> </u>	Blinking	Internal

Table 1: LED status display for a standard troubleshooting

failure

YELLOW



In case of an internal failure, replace the AFDD and contact the Hager technical support.

Connection to mobilephone

A mobile phone is required to use those functions. Refer to the mobility applications store to know the OS compatibility.



Notice

Using the connected functions with your mobile phone requires to activate network functions (Bluetooth, WiFi) and to accept the application terms of use & privacy notice. Only bluetooth 4.2 or above is supported.

- Install the Hager Pilot mobile application on your mobilephone.
- Follow further instructions on the mobile application.

LED status for Bluetooth® connection

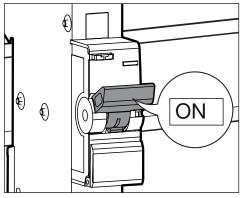


Fig 8: Handle during testing: ON The handle is in the **ON** position.

• Press the test button T for 5 seconds to activate bluetooth mode.

INDICATOR

STATE

× 1 /	Blinking BLUE	Bluetooth enabled
_	Steady BLUE	Bluetooth connected
11 11 11 11 11 11 11 11 11 11 11 11 11	Blinking RED/BLUE	Update mode (only overload and short- circuit protection in this mode)
11 11	Blinking BLUE/ YELLOW	Trace mode (use for technical Hager support)
1, 1,	Blinking (BLUE/ GREEN)	Firmware update confirmation requested

Table 2: LED status display for Bluetooth® connection

EU and **UKCA** Declaration

Hereby, Hager Electro SAS, declares that the AFDD products are in compliance with SI 2017/1206 Radio Equipment Regulations 2017 and with radio emission directive 2014/53/EU

- Operating frequency band 2.4 to 2.483 GHz.
- Maximum radio frequency power 10mW. Declarations of conformity can be downloaded on www.hager.com

