hager ARM906U MCB with Dangerous Arc Detection Instruction Manual

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hager ARM906U MCB with Dangerous Arc Detection

- **ARMxxxU**

  MCB with dangerous arc detection
- **ARM906U**

  MCB with dangerous arc detection 1M 6A B 6kA
- **ARM910U**

  MCB with dangerous arc detection 1M 10A B 6kA
- **ARM916U**

  MCB with dangerous arc detection 1M 16A B 6kA
- **ARM920U**

  MCB with dangerous arc detection 1M 20A B 6kA
- **ARM925U**

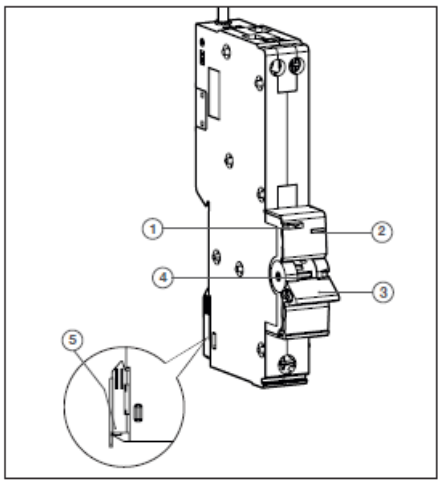
  MCB with dangerous arc detection 1M 25A B 6kA
- **ARM932U**

  MCB with dangerous arc detection 1M 32A B 6kA

Safety notice

The AFDD (Arc Fault Detection Device) may only be installed, connected and ser-viced by a qualified 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 regula-tions and installation standards BS 7671 must be observed.

Design and layout of the device



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 sin-gle 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, complaint ac-cording to BS 7671 installation Standards.

Correct use
Mounting on DIN rail after TH 35 7.5- 15 according to IEC 60715:2017 / EN 60715:2017

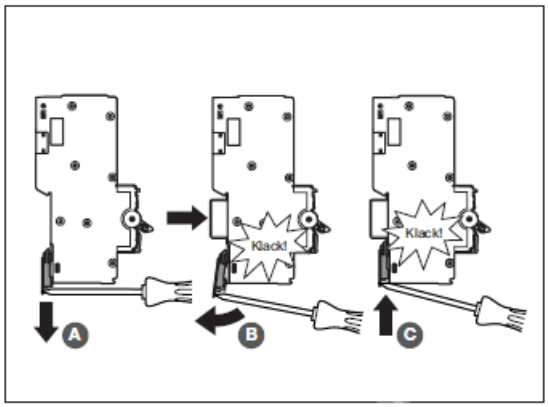
Tools

	LINE	LOAD
(mm²)	1 to 16 □	1 to 25 □
	12 mm	10 mm
	PZ2	PZ2
	3,5 Nm	2,4 Nm

Installation and electricial connection

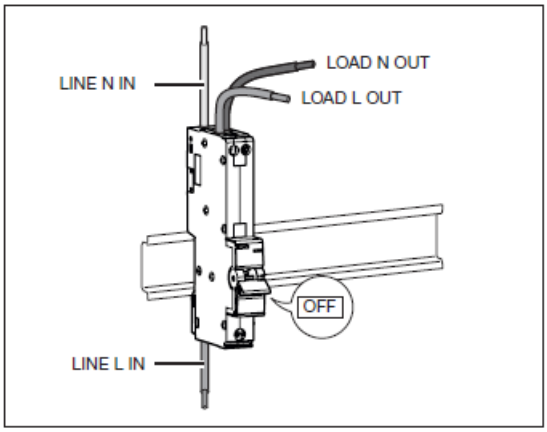
DANGER !
Electric shock when touching live parts! Electric shock can lead to death! Before working on the unit, disconnect the connecting cables and cover live parts in the vicinity!

Mount device

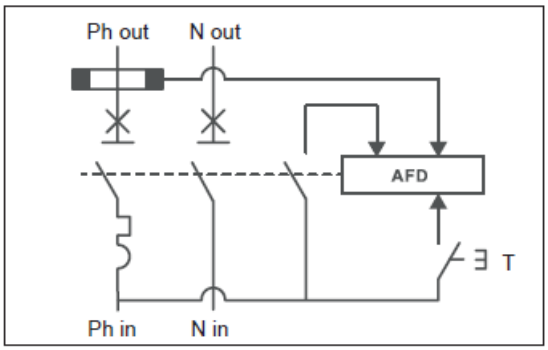


- Open the din rail clip.
- Insert the AFDD until it is inked.
- Put the AFDD on the rail.
- Press the metal clamp down. The AFDD is fixed on the rail.

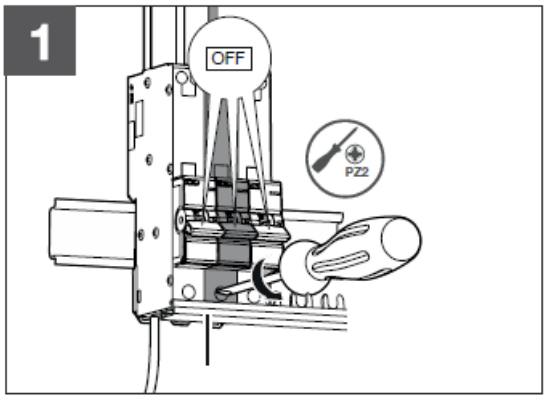
Connect device

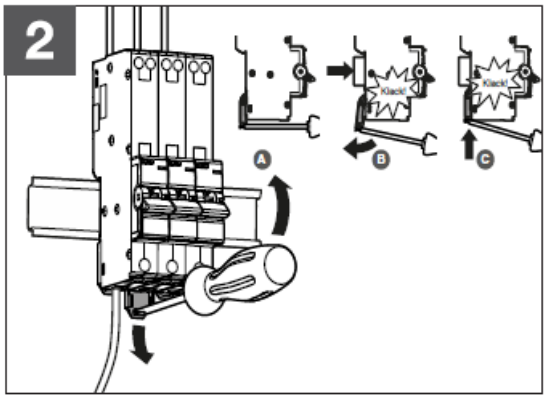


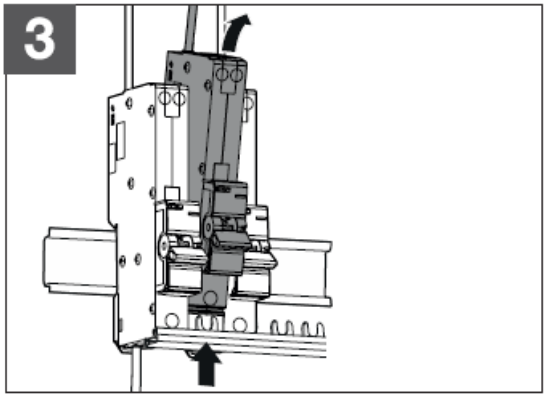
Wiring diagram



Disassembly







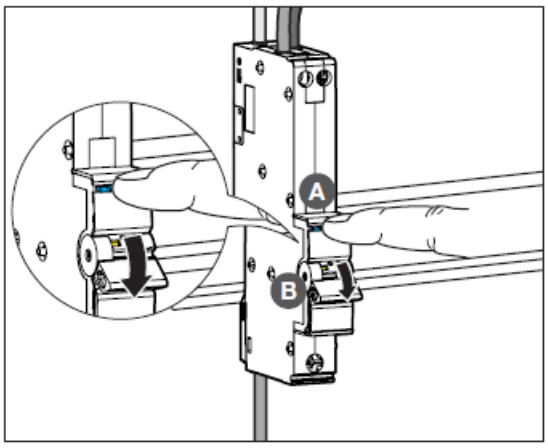
Testing
The test button T is used for testing the device. If the circuit is interruped, operate the handle provided for this purpose.

Test device

ATTENTION !
High voltage tests may damage this product! If the handle is OFF you dont have to disconnect the cable.

Notice

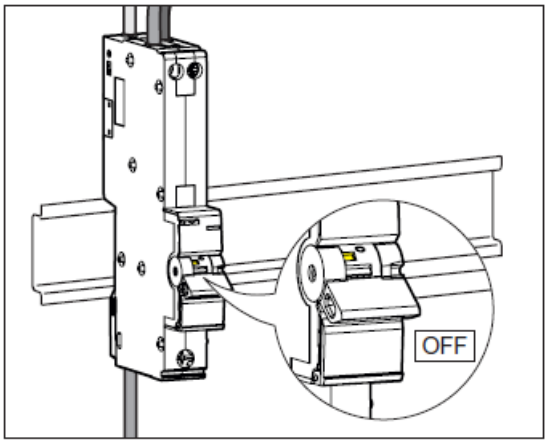
- The AFDD function must be tested after installation. The supply voltage must be present.
- The MCB- AFDD must trip within one second. If the device does not trip, it must be replaced by an experienced electrician.
- Short press the test button only when the yellow flag is present. This ensures that the device has not been triggered by the user.



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

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

LED status for troubleshooting



The handle is in the OFF position. Short press the test button T to open the color code.

LED status display for a standard troubleshooting

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
Blinking RED/ YELLOW	Series arc fault
Blinking RED	Parallel arc fault
Steady YELLOW	Overvoltage
Blinking YELLOW	Internal failure

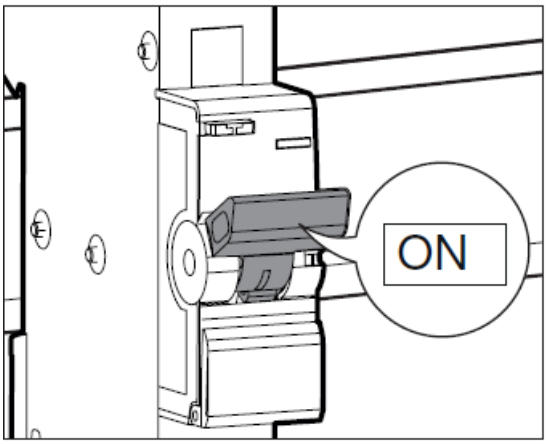
Notice
In case of an internal Failure, re-place the AFDD and contact the Hager technical support.

Connection to mobilephone
A mobile phone (iphone, operating with IOS14 or above, or Android, operating with Android 7 or above) is required to use those functions.

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



The handle is in the ON position. Press the test button T for 5 seconds to open the color code.

LED status display for Bluetooth® connection

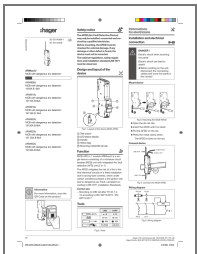
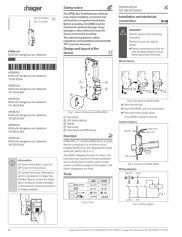
Blinking BLUE	Bluetooth enabled			
Steady BLUE	Bluetooth connected			
Blinking RED/BLUE	Update mode (only overload and short-circuit protection in this mode)	Blinking BLUE/YELLOW	Trace mode (use for technical Hager support)	
Blinking (BLUE/GREEN)	Product localisation request			

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 2.4 to 2.483 GHz.
- Maximum radio frequency 10mW. Declarations of conformity can be downloaded on **www.hager.com**
- T +44 1 952 677 899
- **technical@hager.co.uk**
- **Technical Support:** 01952 675689
- **www.hager.com/uk**

Documents / Resources

	**hager ARM906U MCB with Dangerous Arc Detection** [pdf] Instruction Manual ARM906U MCB with Dangerous Arc Detection, ARM906U, MCB with Dangerous Arc Detection, Dangerous Arc Detection, Arc Detection, Detection
	**hager ARM906U MCB with Dangerous Arc Detection** [pdf] Instruction Manual ARM906U MCB with Dangerous Arc Detection, ARM906U, MCB with Dangerous Arc Detection, Dangerous Arc Detection, Arc Detection, MCB

References

- Hager worldwide
- Hager worldwide
- Hager Electrical Distribution, Lighting & Wiring Accessories
- Hager worldwide