

Hager Ltd.
Unit M2
Furry Park Industrial Estate
Swords Road
Santry
Dublin 9
Ireland

Republic of Ireland
Tel: +353 1 8835844
Fax: +353 1 8869520

Northern Ireland
Tel: +44 7968 147444
Fax: +353 1 8869520

customer.service@hager.ie
www.hager.ie

Installation instructions

This Consumer Unit & devices complies with the following standards:

- Consumer Units IS EN61439-3.
- Conditional prospective short circuit at 16kA rms at 250V a.c. Annex ZB
- Switch disconnectors IS EN60947-3
- Residual Current Circuit Breakers (RCCB) IS EN61008-1
- Residual Current Circuit Breaker with integral overload (RCBO) IS EN61009-1
- Miniature Circuit Breakers (MCB) IS EN60898-1

These instructions are intended for use by qualified electricians. This unit must be installed by a qualified electrician, in accordance with the National Rules for Electrical Installations, Fourth Edition, ET101: 2008.

The Electricity at Work Regulations and the Health and Safety at Work Act shall be complied with.

Only equipment and arrangements specified in Hager's technical documentation / catalogue shall be used.

Install in the horizontal plane only.

Important notice:

To prevent potential overheating from loose connections the installer shall check connections are tight to the torque levels stated in these instructions prior to energising this board. This check should include factory made connections which may have loosened in transit.

Torque values

Tightening torque values to be applied (Nm)

Switch disconnectors: 80A: 3.2Nm RCCBs: 40A & 63A: 2.8Nm MCBs: 2.8Nm RCBOs: 2.1Nm Earth & Neutral terminal bar connections: Single conductors below 1.5mm ² need to be doubled back in the terminal bar
--

Good workmanship and proper materials must be applied by the installer. The cable entry method shall, as far as reasonably practical, maintain the non-combustible arrangement of the enclosure. Account shall be taken of these instructions.

Installation Notes

Please note: enclosure only instructions

Guidance Notes

- The total load must not exceed 63 Amps
- Each neutral and earth connection must correspond numerically to its outgoing way.
- Additional blanks are available to cover spare ways.
- A pack is provided to label this Consumer Unit, please consult us for spares or replacements.
- Single conductors below 1.5mm² need to be doubled back in the terminal bar.

Fitting Hager MCBs

Only equipment and arrangements specified in Hager's technical documentation / catalogue shall be used.

- 1 Isolate the electrical supply from the Consumer Unit.
- 2 Remove the front cover.
- 3 Fully slacken the lower terminal of the device.
- 4 Fully open the bottom device clip.
- 5 Locate the device onto the mounting rail and busbar. Ensure that the busbar tooth is within the device terminal cage.
- 6 While holding the device firmly onto the busbar, fully tighten the lower terminal screw.
- 7 After fitting all outgoing devices and connecting all outgoing cables, please check the tightness of all cable connections. This should include all factory made connections which may have loosened during installation or transit.

Warranty

All hager products benefit from a heavy investment in research and development, and from rigorous quality control procedures at all stages of manufacture.

A warranty period of 24 months is offered on hager products, from the date of manufacture, relating to any material, or manufacture defect. Providing that:

- After inspection by the hager quality control department, the product has been found to be installed in a manner which is in accordance with the National Rules for Electrical Installations, Fourth Edition, ET101: 2008, and accepted practice at the time of installation.
- The correct procedure for return of goods has been followed.
- A full written explanation of the defect is included when returning the goods.
- The product should be returned via the installer and the supplier (wholesaler).

IP rating

IP Code	Description
IP2XC	Protection against access with a tool (2.5mm diameter, 100mm long) making contact with hazardous live parts.
IP4X	A probe of 1mm diameter shall not enter the enclosure

Note

In transit it is possible that some connections on this Consumer Unit may have slackened. Please ensure that all connections have been correctly torqued in accordance with the appropriate standards for devices, and for other connections at least 1.6 Nm should be applied.

Interface characteristics	
Rated and operational voltage (Un/Ue) 230V a.c. 50Hz	
Rated insulation voltage (Ui) 320V a.c. 50Hz	
Rated impulse withstand voltage (Uimp) 4kV	
Rated current of the assembly (InA) 63A	Note: Dependant upon rating of main incoming device
Rated current of an outgoing circuit (Inc) MCB 6A - 63A (marked rated current on device) RCBO 6A - 40A (marked rated current on device)	Rated current of an outgoing unit (Inc) RCCB 40A - 63A (marked rated current on device)
Rated conditional short-circuit current of the ASSEMBLY (Icc) Annex ZB: 16kA Rms at 250V, power factor 0.6 with equipment and arrangements specified in Hager's technical documentation / catalogue.	
Protection against electrical shock Consumer unit shall be installed in an electrical system conforming to the current edition of IEC 60364 ET101: 2008	
Rated frequency (In) 50 Hz	
Pollution degree: 2	
Types of system earthing for which the ASSEMBLY is designed TNC-S, TN-S, when installed in an electrical installation complying with ET101: 2008	
Indoor use only	
Stationary ASSEMBLY	
Degree of protection IP2XC with door open / closed and full compliment of outing devices and or blanks fitted. Note: Where cables are installed through top wall of enclosure, gaps of IP4X to be maintained.	
Intended use Type A DBO (Distribution board for use by ordinary persons) in domestic (residential) or similar premises.	
Electromagnetic compatibility (ECM) classification EMC environment B	
External design Gamma - surface mounted	
Mechanical impact protection IK 05	
The type of construction Fixed parts	