

hager VMLF114 14-Way Main Switch Flush Consumer Unit Instructions

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hager VMLF114 14-Way Main Switch Flush Consumer



Installation Instructions:

All product(s) must be installed by a suitably competent electrician

Giving consideration to their intended use and in accordance with the current edition of BS 7671 (IET Wiring Regulations).

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 energizing this board. This check should include factory made connections which may have loosened in transit.

Guidance Notes:

The total load must not exceed the rating of the incoming device or the assigned assembly rating (InA) whichever is the lower. Each neutral and earth connection must correspond numerically to its outgoing way. Additional blanks (ref. JK01B) are available to cover spare ways.

A pack is provided to label this consumer unit, please consult us for spares or replacements.

Operating Instruction leaflet is provided overleaf. This leaflet should be left for the end user.

Single conductors below 1.5mm need to be doubled back in the terminal bar.

Consumer Units incorporating RCDs in TT systems should incorporate an S type (time Delayed) RCCB, e.g. 100 mA s-type RCCB. Alternatively a main switch with RCBO protection on all outgoing circuits should be used. Precautions need to be taken to prevent faults to earth on the supply side of the RCD (as per BS7671 regulation 531.4.1)

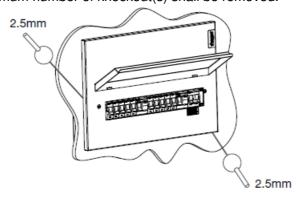
For guidance when making connections in a consumer unit electrical safety first /BEAMA document "Guidance for installers when making connections in consumer units" is available from hager.co.uk/63026.htm

Cable Access:

Cable access into the metal consumer unit must maintain the integrity of the non-combustable consumer unit so far as reasonably practicable. This can generally be achieved by the installer ensuring that cable access holes they make in the enclosure do not to leave gaps greater than:

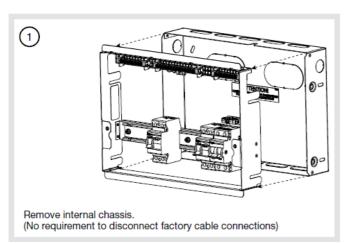
2.5 mm for all other surfaces of the enclosure that are accessible after installation.

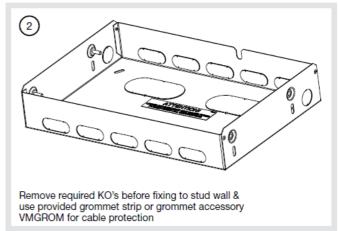
For rear cable access, the minimum number of knockout(s) shall be removed.

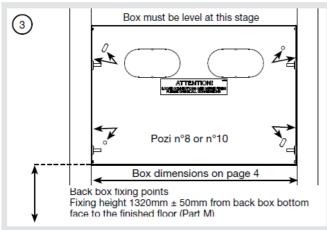


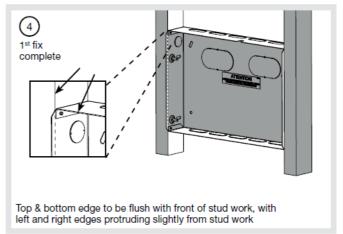
Tests on hager consumer units have indicated that there is no specific need for external fire rated cable glands or intumescent sealing in addition to the guidance below, with respect to achieving a non-combustible enclosure. However this does not preclude the designer/installer from using fire rated cable glands or external intumescent sealing should they consider necessary. Internal intumescent pads shall not be used.

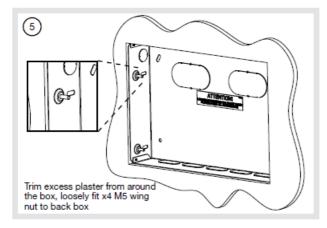
Torque Settings	Pz No.	(mm)	Cables >1.5mm2 Tigh tening torque (N.m)		Cables ≤1.5mm2 Tightening torque (N. m)		Cable Strippin g (mm)
			Single Ca ble	Multi Cables	Single Ca ble	Multi Cabl e	
Consumer unit terminals							
Earth and neutral terminal bars	2	6.5	2	2	1.5	1.5	10
Isolation							
SB switch disconnectors	2	6.5	3.6	3.6	3.6	3.6	15
Circuit protection							
MTN MCB	2	6.5	2.8	2.8	2.8	2.8	13
NBN/NCN/NDN MCB	2	6.5	2.8	2.8	2.8	2.8	13
RCBO	2	5.5	2.1	2.1	2.1	2.1	13
RCCB	2	5.5	2.8	2.8	2.8	2.8	13

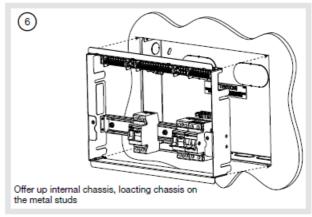


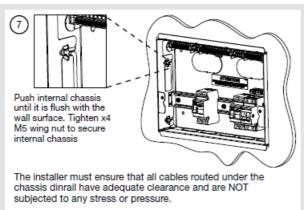


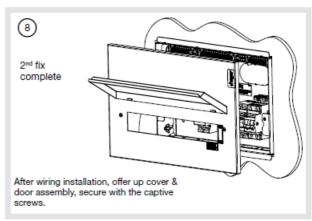












Interface characteristics

Rated & 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)

100A, 63A

Note: Dependent upon rating of main incoming device

Rated current of an Outgoing circuit (Inc) Circuit n ext to an RCCB: MCB & RCBO 6-50A (marked rate d current on device)

All other circuits MCB 6A – 63A (marked rated current on device) All other circuits RCBO 6A – 50A (marked rated current on device)

Rated current of outgoing unit (Inc)

RCCB 80A (marked rated current on device)

Rated conditional short-circuit current of the ASSEMBLY (Icc)

Annex ZB: 16 kA rms at 250V, power factor 0.6 with equipment and arrangements specified in Hager's technica I documentation / catalogue.

Protection against electric shock

Consumer unit shall be installed in an electrical system conforming to the current edition of IEC 60364 / BS 767

Rated diversity factor (RDF) / Values of assumed loading

and simultaneously loaded 1way = 1.0

Note: RDF only applies to continuously circuits.

2way - 3way = 0.8

4way - 5way = 0.7 breakers having a load

In principle, this means adjacent circuit-

6way - 9way = 0.6

'on' time exceeding 30 minutes or wher

e a load not exceeding 30

10way and above = 0.5

minutes has an 'off' time less than the 'o

n' time, will need to have the rated diversity factor applied as indicated.

Rated frequency (fn)

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 BS 7671
Hager recommends for TT systems a 100A type S time delayed RCCB or a main switch with RCBO protection only on all outgoing circuits.
Indoor use only
Chatianami ACCEMBIV
Stationary ASSEMBLY
Degree of protection
IP2XC with Door Open / closed and full compliment of outgoing devices and or blanks fitted.
Intended use
Intended for use in domestic (residential) or similar premises.
Electromagnetic compatibility (EMC) classification
EMC Environment B
ENIO ENVIRONMENTE
External design
VM: Wall-mounted, enclosed assembly.

Mechanical impact protection			
IK 05			
The type of construction			
Fixed parts			
Type A DBO (Distribution board for use by ordinary persons)			

Warranty

This distribution board is offered with a 24 month warranty against defective material or manufacture. If a warranty claim is necessary, please call the technical support number given at the bottom of the page and we will be pleased to help.

For dimensional information and weights please consult the Hager catalogue.

Accessories

Open Hole Grommet 38mm (10 Pack)	VMGROM
Cable Protector Plate	VM02CE
Label Pack	VAP00
1 Module Busbar Blank (25 pack)	JK01B

Hager Technical Help Line: 01952 675 689 Hager Technical Fax: 01952 675 557

Website: www.hager.co.uk
E-mail us: info@hager.co.uk

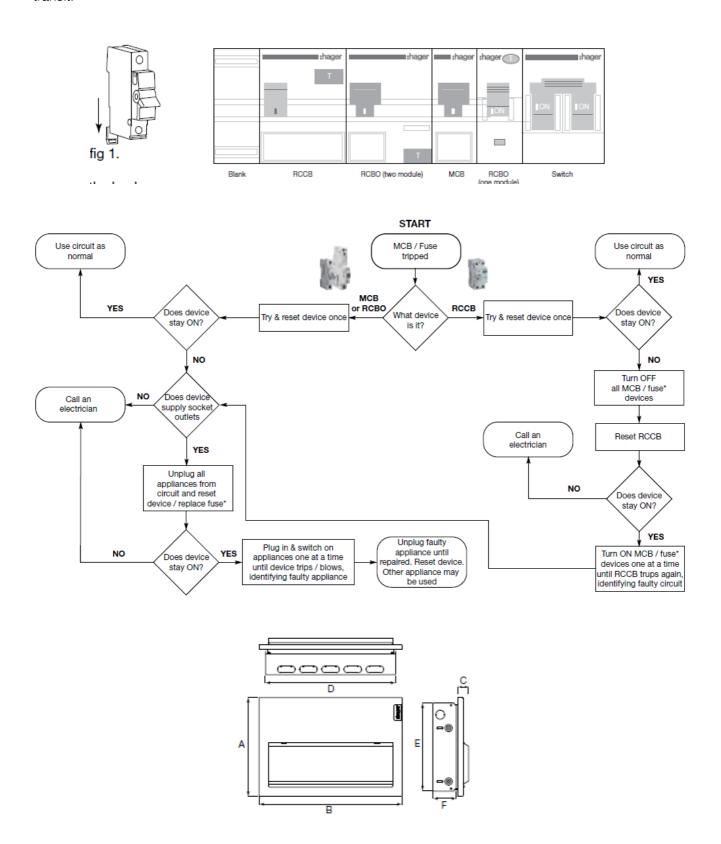
Twitter: @hageruk

Fitting Hager MCBs and RCBOs:

Only equipment and arrangements specified in Hager's technical documentation / catalogue shall be used. Isolate the electrical supply from the consumer unit.

- 1. Isolate the electrical supply from the consumer unit.
- 2. Remove the front cover, by loosening the two captive screws.
- 3. Fully slacken the lower terminal of the device.

- 4. Fully open the bottom device clip (fig 1.)
- 5. Locate the device onto the din rail, and busbar. Ensure that the busbar tooth is within the device terminal cage.
- 6. Close the bottom device clip.
- 7. While holding the device firmly onto the busbar, fully tighten the lower terminal screw.
- 8. 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.



	Size 4	Size 5	Size 6	Size 7
VMLF110		VMLF114	-	VMLF120
	_	VMLF710C	VMLF712C	VMLF716C
	_	VMLF810C	VMLF812C	VMLF816C
	12 MOD	16 MOD	18 MOD	22 MOD
A	282	282	282	282
В	335	407	443	515
С	32	32	32	32
D	298	370	406	478
Е	252	252	252	252
F	72	72	72	72

Documents / Resources



hager VMLF114 14-Way Main Switch Flush Consumer Unit [pdf] InstructionsVMLF114, 14-Way Main Switch Flush Consumer Unit, VMLF114 14-Way Main Switch Flush Consumer Unit

References

• :h Hager Electrical Distribution, Lighting & Wiring Accessories

Manuals+,