



Consumer Unit

Packed with features, the benefit's all yours





Consumer Unit installation video

Visit hager.co.uk/youtube to see how easy the hager consumer unit is to install.

Scan the QR code to be taken straight to the video.



Consumer Unit features and benefits video

Visit hager.co.uk/youtube to see the features and benefits of the hager consumer unit demonstrated on video.

Scan the QR code to be taken straight to the video.



:hager Engineered Solutions

As client requirements become more sophisticated, demands on electrical installation designs have increased. Many electrical distribution solutions require something that cannot be purchased off the shelf.

Whether it is an unusual configuration or simply speed on site that is an issue, Hager's Engineered Solutions supplies the answer. This Engineered Solutions service puts the power of our design engineers at your fingertips. You give us the specification and we will deliver what you need with the peace of mind of factory assured quality to ISO 9001:2008.

We offer factory assembly of non-standard consumer units, special configurations in standard enclosures or metal DIN rail enclosures. Providing an exact product that meets the requirements of your particular installations needs.

Pluggable and metered consumer units are also an option. With pluggable consumer units, circuit breakers are wired to sockets fitted into the enclosure enabling final circuit cabling to be simply plugged in.

To learn more about our Engineered Solutions offer, please contact us:

Engineered Solutions Contact Number: 01952 675600

Engineered Solutions Email: estimation@hager.co.uk

Engineered Solutions Faxline: 01952 675557



The Consumer Unit

The Hager consumer unit has been developed to accommodate the Building regulations Part M, for integration into the home environment, with great aesthetic design, and plain and glazed door options available.

Through indepth customer research we have incorporated a number of features and benefits for installers, which have resulted in the creation of a range of easy to use, high quality and reliable consumer units.

The range enables full compliance with Amendment 1 of BS 7671 and comes in three standard enclosure types, insulated & hybrid surface mounted and the hybrid flush fit.

Additionally through our engineered solutions department we can produce an all metal consumer unit along with modifying standard consumer units into a range of additional configurations, such as installing contactors, surge protection and metering to suit a variety of applications.

Customer specific consumer units can be designed and manufactured by our UK based Engineered Solutions team to suit applications that are not covered by our standard catalogue offer.

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Removable top wall

Removes easily to provide cable access and re-seals to IP4X when used with the two foam strips provided.

Fixing points

The flexible fixing points accommodate uneven walls, and the wide range of fixing points available offers a wide choice of mounting arrangements.

Cable space

Maximum cable space is available even with RCBO's fitted to make the installation and wiring easier.



DIN rail

The use of a full metal DIN rail minimises distortion to ensure the devices sit square and are not easily displaced.

Blank

Blanks clip onto the DIN rail and cover the busbar, they cannot be removed once the front cover is in place.

Spirit level

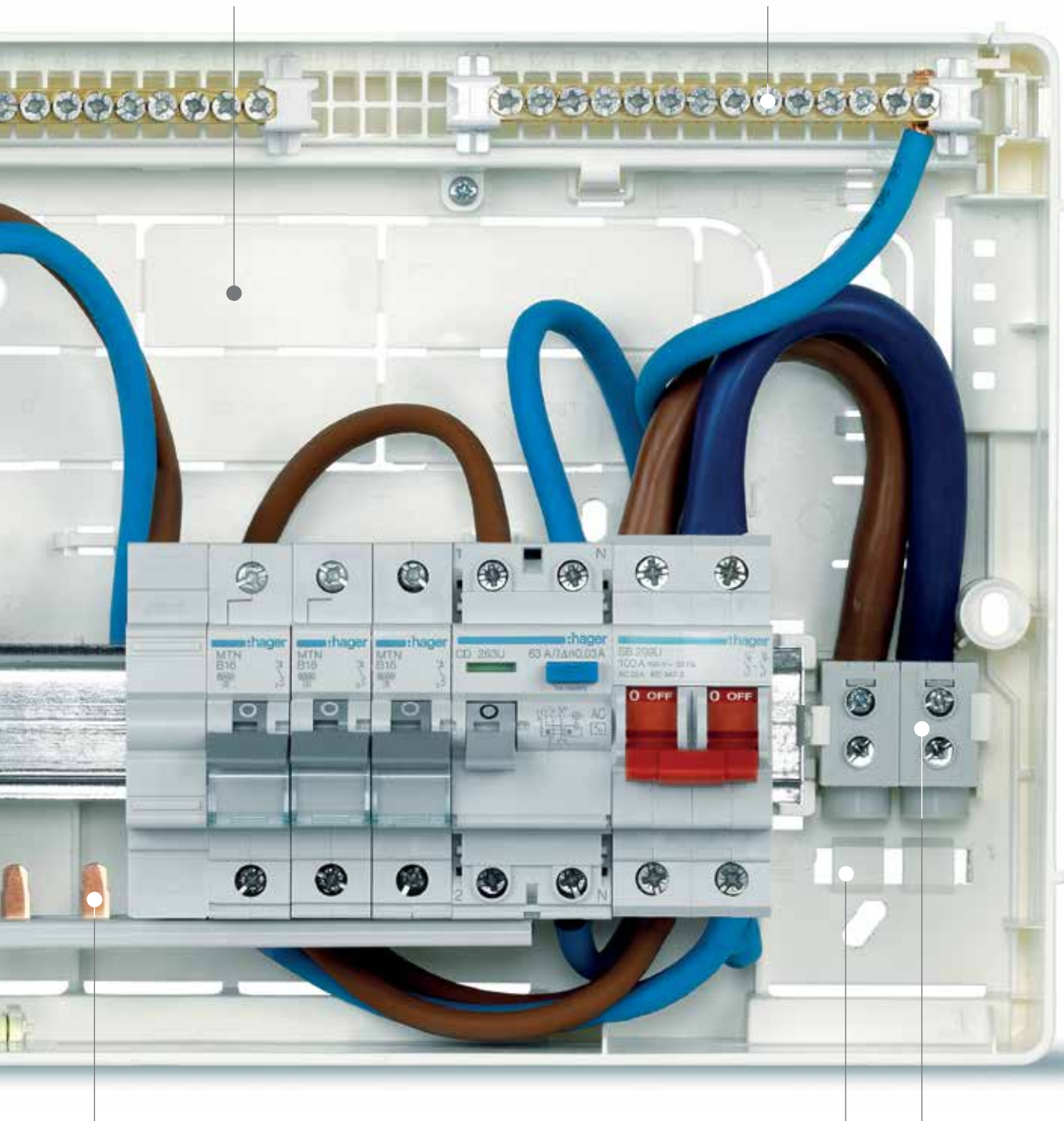
The built in spirit level makes levelling really easy.

Cutouts

The rear cutouts are optimised for their size and position to maximise cable entry options.

Terminal bars

The top mounted terminal rail makes the wiring of the neutral and earth connections easier and neater.



Snap-able busbar

A snap-able busbar provides quick and simple configuration of the devices.

Cable Ties

Incoming tails can be tied into position using the cable tie fixing points.

Meter tail kit

An optional meter tail kit is available to make the wiring and termination on the incoming cables easier to install.

Flush Consumer Unit

Designed for partition and solid walls, enables full compliance with Amendment 1 of BS 7671 and is available in two enclosure sizes for 10, 12, 14, and 16 way configurations.

For partition walls, the metal flange and frame clamps the unit to the wall with no need for separate fixings. The unit simply slots into the prepared hole and the integral fixing screws are tightened.

With brick walls the installer refits the flange to the sides of the metal back box and uses it as a fixing bracket to secure the base unit to the wall.

This allows the base unit to be held away from the edge of the blocks or bricks and the plastering can be levelled to the edge of the base.

The front cover can then be easily levelled and fixed to the base from the front.

There is a choice of 32mm or 25mm knockouts for the incoming cable, and the metal back box can be fitted either way up, so that the incoming cable can enter from the left or right.

Flush consumer units can be found on pages 22 and 23 of this catalogue.



Flush Consumer Unit features and benefits video

Visit hager.co.uk/youtube to see the features of this board in more detail.

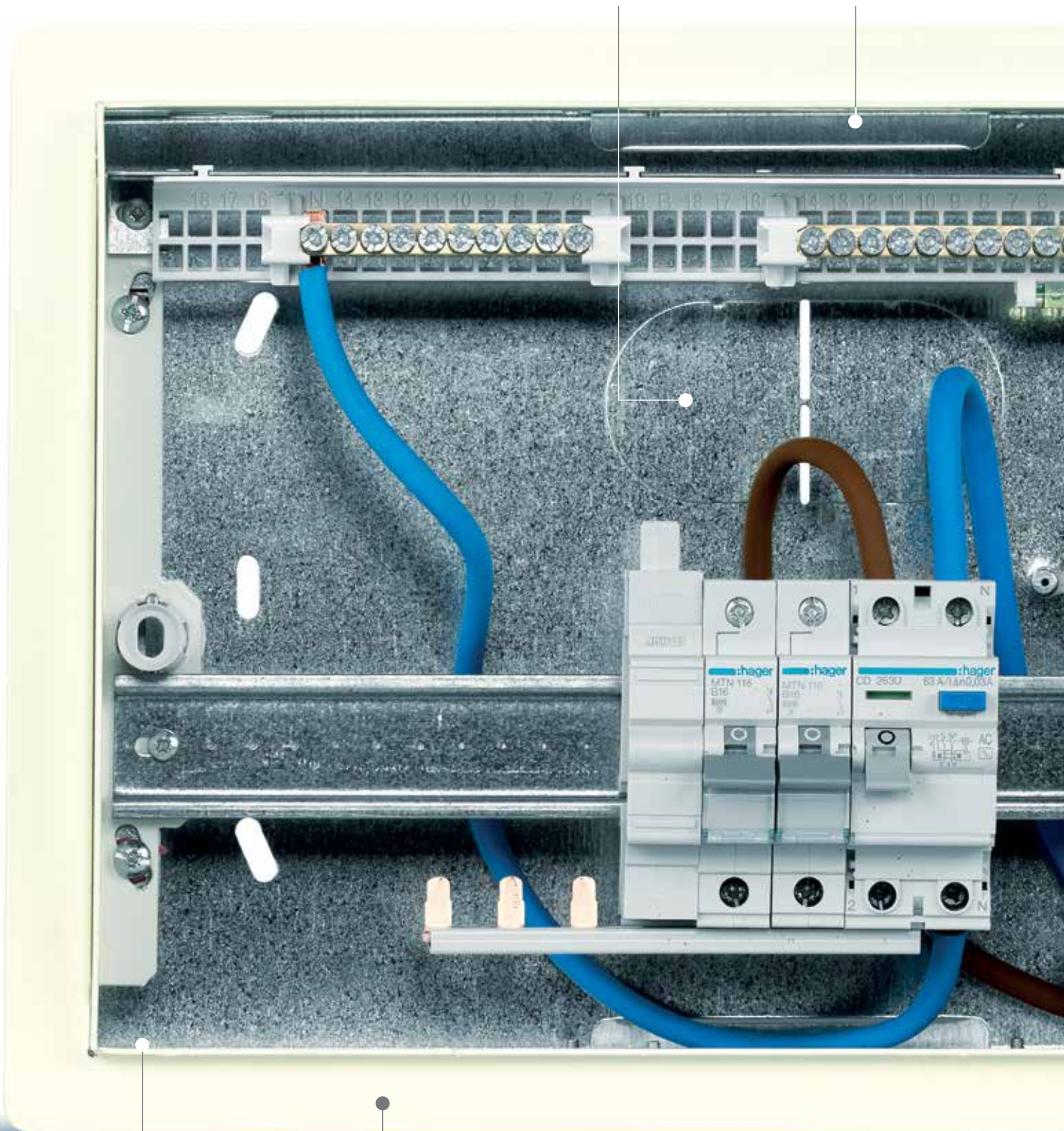


Knockouts

The unit includes a large choice of knockouts for cabling

Cable entry

The large choice of rear cable entries can be rotated, knocked out and removed completely giving you easy access



Incomer cable entry

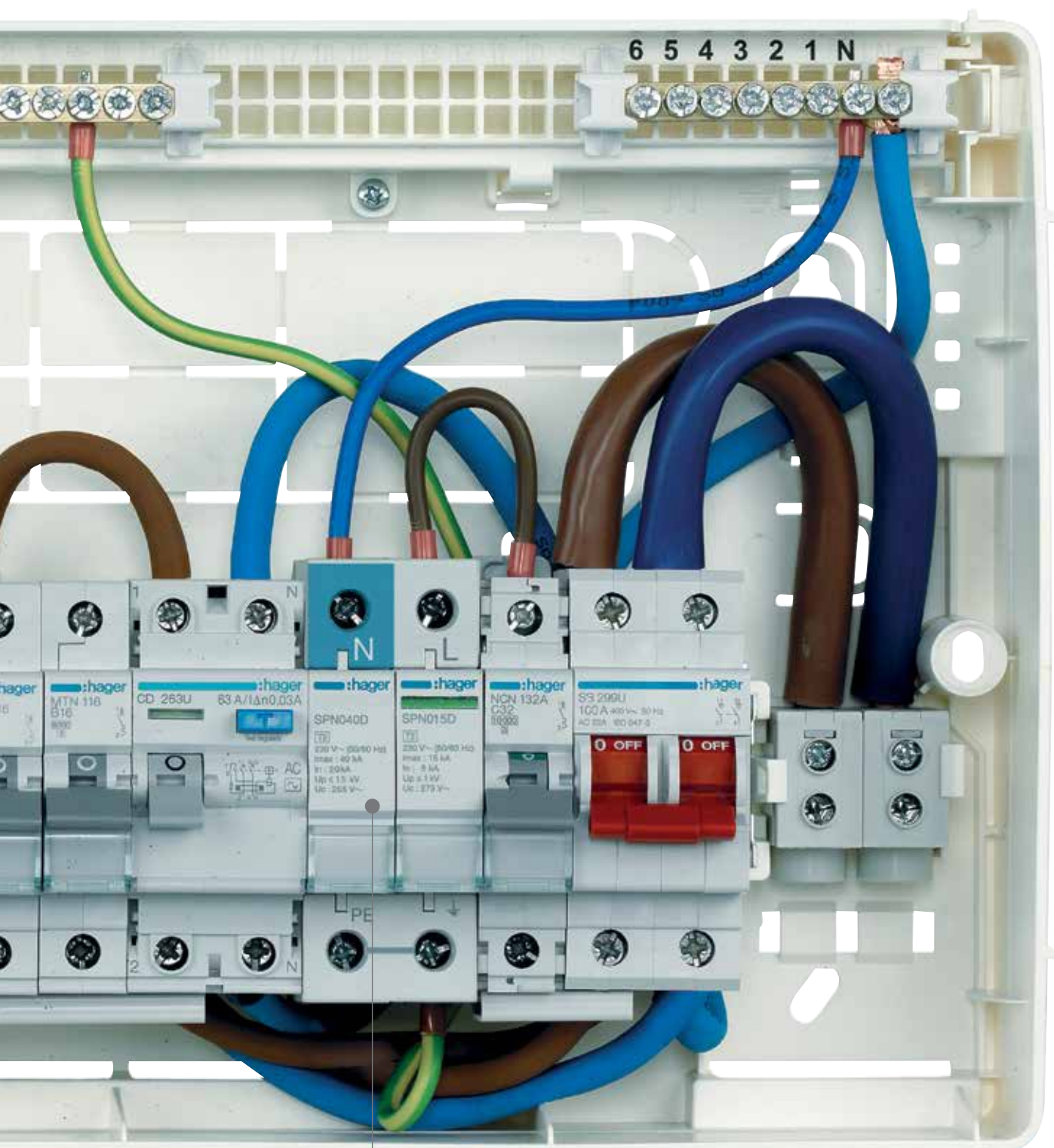
The back box can be fitted either way to give a choice of either 25mm or 32mm knockout entry for the incomer

Flange and clamp

Innovative flange and clamp design allows for quick fitting to plaster board walls

Fixing to brick

Removing the flange from the top of the unit and fixing it to the sides allows for easy fixing to brick walls without the worry of bricks breaking



Surge Protection Devices

The range of SPDs is separated into 3 types of protection:

1. Main protection - class 1
SPDs with higher discharge current (I_{max} 10/350), to evacuate as much of the transient overvoltages associated with lightning strikes
2. Main protection - class 2
With a discharge current (I_{max} 8/20), to evacuate as much of the transient overvoltage to earth as possible protection level ($U_p \leq 1000V$).
3. Main protection - class 3
To cut-down the transient surge as low as possible to protect very sensitive equipment.

Surge Protection

Surge protective devices (SPDs) assist in the protection of valuable electrical and electronic equipment against transients, originating from lightning and also from switching sources.

The surge protection kit for domestic installations, has been designed to meet the requirements of Amendment 1 of BS 7671. This Amendment requires electricians to conduct a risk assessment of properties to check if surge protection is required.

Homes now have many items of sensitive electronic equipment, such as TVs, Hi-Fis, PCs and printers that would be adversely affected by a voltage surge. Furthermore the need for such devices will increase in the future.

Transient overvoltages are not just caused by a direct lightning strike. Even a nearby strike, such as a strike within a kilometre, can cause substantial damage. Additionally fluctuations in the power supply or from equipment such as microwaves or showers can cause transient overvoltages.

Surge protection information and devices can be found on pages 40 and 41.



Guide to Surge Protection Devices

Visit hager.co.uk to view or download our guide to surge protection.

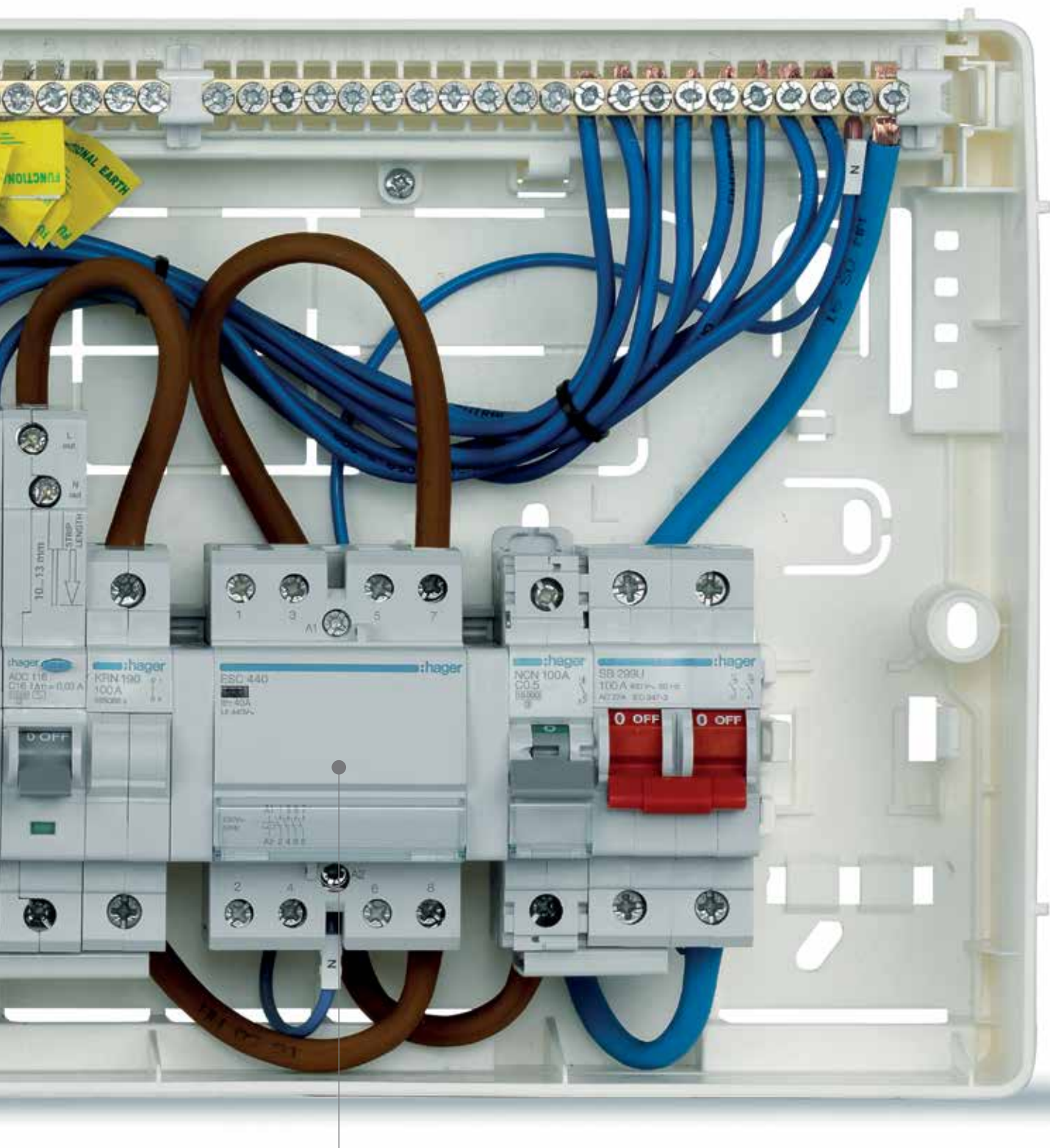


Surge Protection installation video

Visit hager.co.uk/youtube to see how easy the surge protection kit is to install into a hager consumer unit.

Scan the QR code to be taken straight to the video.





Contactors

Contactors are used for remote switching and control of power circuits. The choice of contactor depends upon a number of parameters, such as;

- The nature of the supply
- The power it is switching
- The characteristics of the load
- The control voltage required
- Number of operations



Contactor & RCBO Unit

The consumer unit range has been designed to provide maximum flexibility and adaptability for different applications.

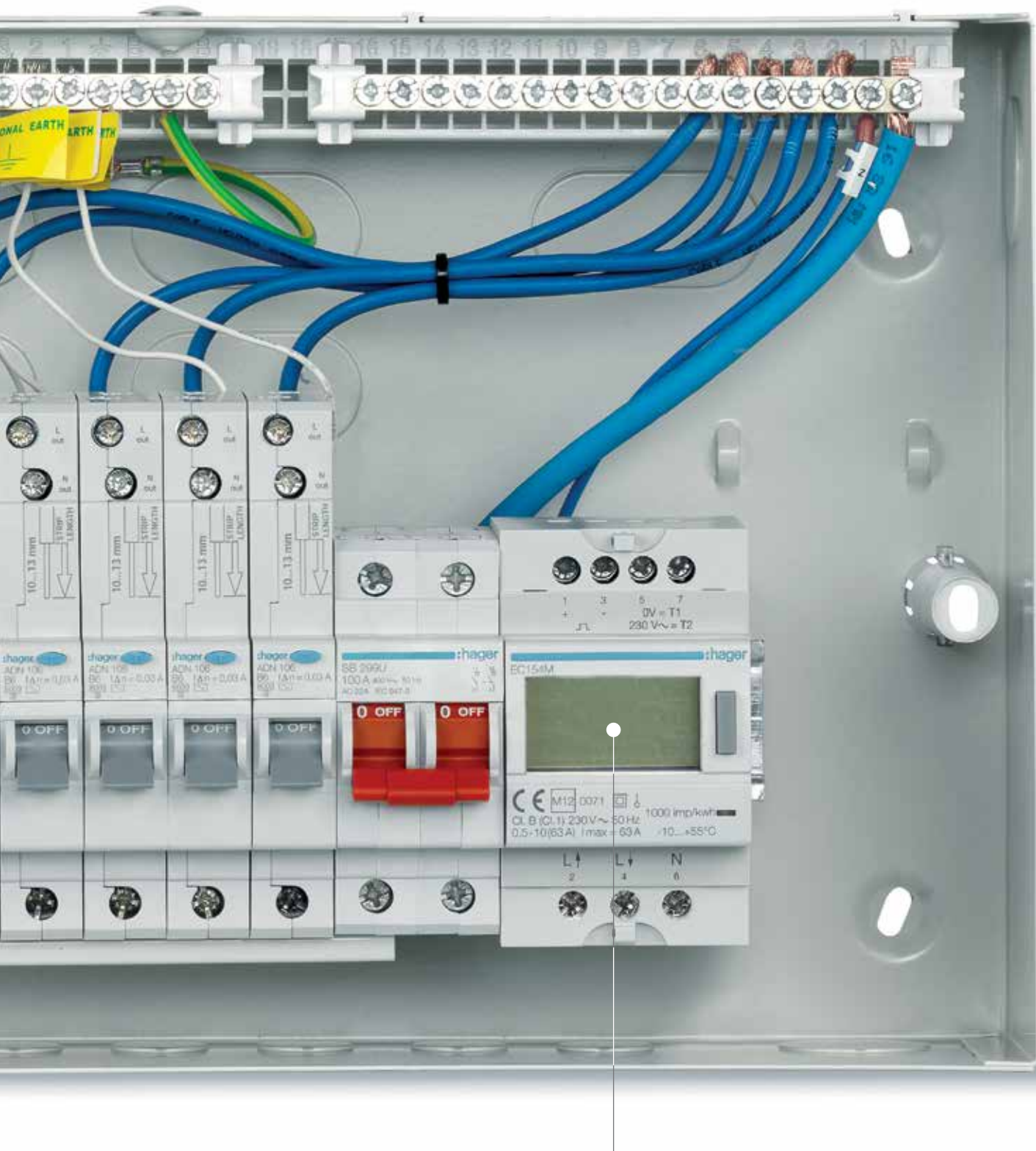
As the need to provide specific control and switching increases the use of DIN rail mounted contactors in boards becomes an obvious choice for designers and installers.

Boards can be configured to suit numerous requirements in the home, small commercial properties, hotels and other single phase applications which require external control of a number of circuits.

Examples include, heating and lighting loads, curtain and blind control, security monitoring, gated entries, pumps, external lighting, and hotel room door key control to name but a few.

Consumer units can be specifically built to match customer applications using our Engineered Solutions service or the contactors and boards can be purchased separately for wiring and fitting by the installer.

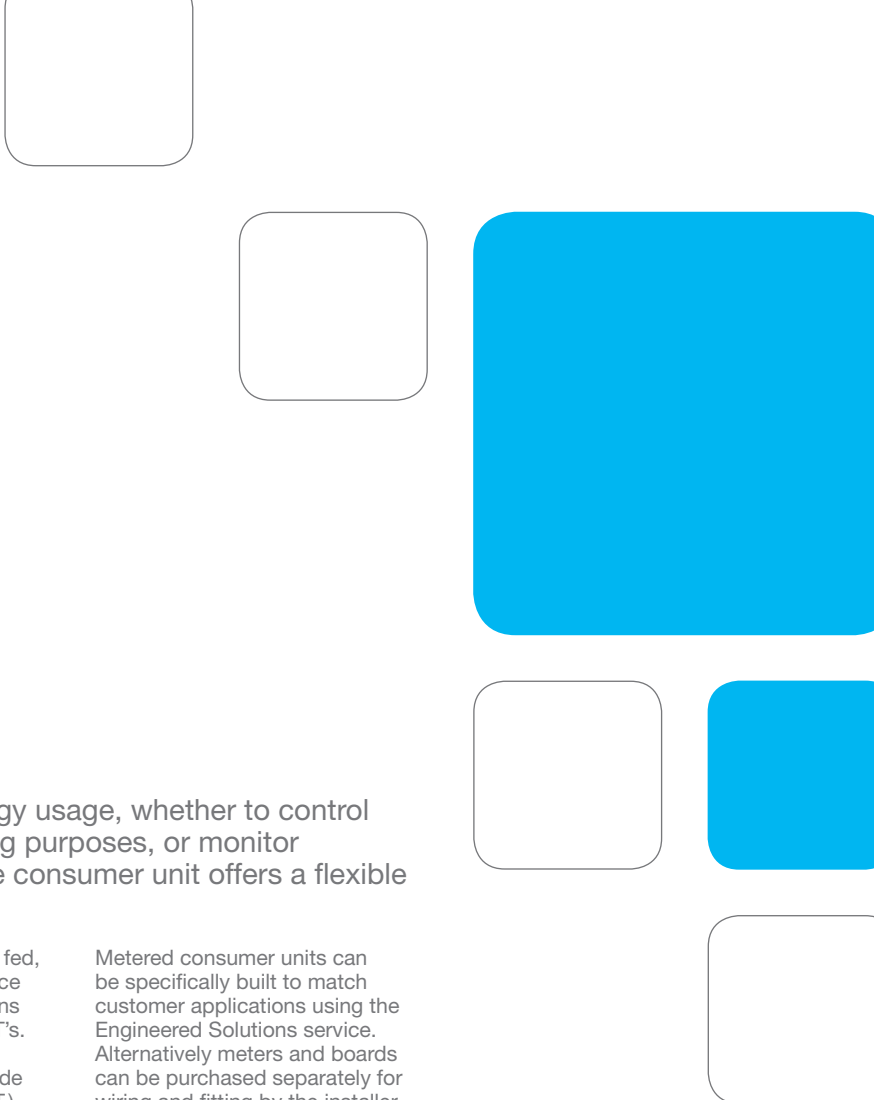
These consumer units are available through our engineered solutions department, for further information please email estimation@hager.co.uk or call 01952 675600



Single Phase kWh Meters

Energy Meters are used to measure the active energy consumed by an installation. They allow the user to understand and control the real cost of an installation.

Also available with MID approval, for applications where meters are required for billing purposes.



Metered Unit

With the ever increasing need to monitor energy usage, whether to control and save costs, identify consumption for billing purposes, or monitor renewable energy, the fitting of metering in the consumer unit offers a flexible solution.

DIN rail mounted meters inside the unit remove the need for external meter enclosures, resulting in an easier to wire and install, space saving system.

Meters are available direct fed, making them an ideal choice for single phase applications eliminating the need for CT's.

The choice of meters include multifunction (requiring C.T.), pulsed and MID types to cater for billing applications.

Metered consumer units can be specifically built to match customer applications using the Engineered Solutions service. Alternatively meters and boards can be purchased separately for wiring and fitting by the installer.

Meters can be found on page 47 of this catalogue.



Metal Local Authority Unit

The metal local authority unit has been designed to suit the need for more robust applications with a metal cover and choice of plain or glazed door.

These compact consumer units have been designed with more arduous environments in mind, with a metal enclosure they provide a robust solution where a higher than normal mechanical strength is needed for the installation.

They can be supplied with a lockable glazed door for added security, but still provide visibility for the state of the breakers to minimise call-outs due to tripping under fault conditions.

They are available in flush versions to minimise the protrusions from the wall and hence reduce the potential damage when installed in these areas.

These consumer units are available through our engineered solutions department, for further information please email estimation@hager.co.uk or call 01952 675600

Two Row Domestic Consumer Unit

Consumer Units are now being fitted with meters or more control modules, causing issues with the amount of available ways.

To help overcome this problem we have created a range of two row consumer units, designed to provide installers with increased space to accommodate the need for more ways.

These boards suite with our existing consumer unit range, are compatible with the complete range of accessories and come with the option of a plain or glazed door.

Two Row Domestic Consumer Units can be found on page 28 of this catalogue.



Insulated and metal DIN rail enclosures, 1 row from 4 to 22 modules.

Surface mounted enclosures, with a rigid chassis, housing a DIN rail.

Supplied with marking labels and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 62208.

For complete accessories list see page 29.

For dimensions see page 48.

DIN Rail - Insulated

Description	Enclosures size	Cat ref. Plain door	Cat ref. Glazed door
8 Module DIN Rail Enclosure	3	VC008	VC008G
12 Module DIN Rail Enclosure	4	VC012	VC012G
16 Module DIN Rail Enclosure	5	VC016	VC016G
22 Module DIN Rail Enclosure	6	VC022	VC022G



VC008G

DIN Rail - Hybrid

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
4 Module DIN Rail Enclosure	2	VH004	-
8 Module DIN Rail Enclosure	3	VH008	VH008G
12 Module DIN Rail Enclosure	4	VH012	VH012G
16 Module DIN Rail Enclosure	5	VH016	VH016G
22 Module DIN Rail Enclosure	6	VH022	VH022G



VH008

Insulated and metal, switch disconnecter incomer enclosures, 1 row from 1 to 20 outgoing ways.

Surface mounted enclosures, with a rigid chassis, complete with a 63 Amp or 100 Amp Switch Disconnecter.

Supplied with marking labels, busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

Switch Disconnecter Incomer - Insulated



VC206

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
1 Way 63A Switch Disconnecter Incomer	1	VC201	-
2 Way 63A Switch Disconnecter Incomer	1	VC202	-
4 Way 63A Switch Disconnecter Incomer	3	VC204	-
6 Way 63A Switch Disconnecter Incomer	3	VC206	VC206G
4 Way 100A Switch Disconnecter Incomer	3	VC104	VC104G
6 Way 100A Switch Disconnecter Incomer	3	VC106	VC106G
8 Way 100A Switch Disconnecter Incomer	4	VC108	VC108G
10 Way 100A Switch Disconnecter Incomer	4	VC110	VC110G
12 Way 100A Switch Disconnecter Incomer	5	VC112	VC112G
14 Way 100A Switch Disconnecter Incomer	5	VC114	VC114G
16 Way 100A Switch Disconnecter Incomer	6	VC116	VC116G
20 Way 100A Switch Disconnecter Incomer	6	VC120	VC120G

Switch Disconnecter Incomer - Hybrid



VH106G

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
1 Way 63A Switch Disconnecter Incomer	1	VH201	-
2 Way 63A Switch Disconnecter Incomer	2	VH202	-
4 Way 100A Switch Disconnecter Incomer	3	VH104	VH104G
6 Way 100A Switch Disconnecter Incomer	3	VH106	VH106G
8 Way 100A Switch Disconnecter Incomer	4	VH108	VH108G
10 Way 100A Switch Disconnecter Incomer	4	VH110	VH110G
14 Way 100A Switch Disconnecter Incomer	5	VH114	VH114G
16 Way 100A Switch Disconnecter Incomer	6	VH116	VH116G
20 Way 100A Switch Disconnecter Incomer	6	VH120	VH120G

Insulated and metal, RCCB incomer enclosures, 1 row from 1 to 18 outgoing ways.

Surface mounted enclosures, with a rigid chassis, housing a 40, 63 or 100A RCCB.

Supplied with marking labels, busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

RCCB Incomer - Insulated



VC404H

Description	Enclosure size	Cat ref. Plain door
2 Way 40A 30mA RCCB incomer	1	VC402H
3 Way 63A 30mA RCCB incomer	3	VC403H
4 Way 63A 30mA RCCB incomer	3	VC404H
6 Way 63A 30mA RCCB incomer	3	VC406H
8 Way 63A 30mA RCCB incomer	4	VC408H
4 Way 100A 30mA RCCB incomer	3	VC304H
8 Way 100A 30mA RCCB incomer	4	VC308H
14 Way 100A 30mA RCCB incomer	5	VC314H

RCCB Incomer - Hybrid



VH404H

Description	Enclosure size	Cat ref. Plain door
4 Way 63A 30mA RCCB incomer	3	VH404H
6 Way 63A 30mA RCCB incomer	3	VH406H
8 Way 63A 30mA RCCB incomer	4	VH408H
4 Way 100A 30mA RCCB incomer	3	VH304H
6 Way 100A 30mA RCCB incomer	3	VH306H
8 Way 100A 30mA RCCB incomer	4	VH308H
18 Way 100A 30mA RCCB incomer	6	VH318H

Insulated 1 row 12 outgoing way enclosures.

Surface mounted enclosures, with a rigid chassis, housing a Time Delayed RCCB.

Supplied with marking labels, busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated consumer unit dimensions see page 48.

Split Load 100A 100mA Time Delayed RCCB Incomer - Insulated

Description	Enclosure size	Cat ref. Glazed door
12 Way Split Load Configurable 100A 100mA Time Delayed RCCB 63A 30mA RCCB	5	VC712TG

Insulated and metal, split load and configurable enclosures, 1 row from 6-16 outgoing ways.

Surface and Flush mounted enclosures, with a rigid chassis, housing a Switch Disconnector and 2 RCCB's.

Supplied with marking labels, busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

For flush consumer unit dimensions see page 49.

Split Load 100A Switch plus Twin RCCB Incomer - Insulated



VC766H1G



VC816C

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
6 Way Split Load 3+3 100A Switch 2 x 63A 30mA RCCB	4	VC733H1	-
10 Way Split Load 5+5 100A Switch 2 x 63A 30mA RCCB	5	VC755H1	VC755H1G
10 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	5	VC710C1	VC710C1G
12 Way Split Load 6+6 100A Switch 2 x 63A 30mA RCCB	6	VC766H1	VC766H1G
12 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VC712C1	VC712C1G
14 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VC714C1	VC714C1G
16 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VC716C1	VC716C1G
10 Way Split Load 5+5 100A Switch 2 x 80A 30mA RCCB	5	VC855H	-
12 Way Split Load 6+6 100A Switch 2 x 80A 30mA RCCB	6	VC866H	-
16 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VC816C	-

Split Load 100A Switch plus Twin RCCB Incomer - Hybrid



VH766H1G

Description	Enclosure size	Cat ref. Plain door
10 Way Split Load 5+5 100A Switch 2 x 63A 30mA RCCB	5	VH755H1
12 Way Split Load 6+6 100A Switch 2 x 63A 30mA RCCB	6	VH766H1
12 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VH712C1
14 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VH714C1
10 Way Split Load 5+5 100A Switch 2 x 80A 30mA RCCB	5	VH855H
12 Way Split Load 6+6 100A Switch 2 x 80A 30mA RCCB	6	VH866H

Split Load 100A Switch plus Twin RCCB Incomer - Flush



VF712C1

Description	Enclosure size	Cat ref. Plain door
10 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	5	VF710C1
12 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VF712C1
14 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VF714C1
16 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VF716C1
12 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VF812C
14 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VF814C

Insulated and metal enclosures, 1 row from 10 to 18 outgoing ways.

Surface and Flush mounted enclosures, with a rigid chassis, housing a Switch Disconnector, Twin RCCB and space for RCBOs.

Supplied with marking labels, configurable busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

For flush consumer unit dimensions see page 49.



VC816CU

Split Load 100A Switch plus Twin RCCB Incomer with Unprotected Ways - Insulated

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
10 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	5	VC710CU	VC710CUG
16 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VC716CU	VC716CUG
10 Way Split Load 3+4+3 100A Switch 2 x 63A 30mA RCCB 3 x MCB	5	VC7343U	-
14 Way Split Load 5+6+3 100A Switch 2 x 63A 30mA RCCB 3 x MCB	6	VC7563U	-
16 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VC816CU	-
18 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VC818CU	VC818CUG
10 Way Split Load 5+4+1 100A Switch 2 x 80A 30mA RCCB 1 x MCB	5	VC854U	-
14 Way Split Load 5+6+3 100A Switch 2 x 80A 30mA RCCB 3 x MCB	6	VC8563U	-
14 Way Split Load 7+6+1 100A Switch 2 x 80A 30mA RCCB 1 x MCB	6	VC876U	-



VH716CU

Split Load 100A Switch plus Twin RCCB Incomer with Unprotected Ways - Hybrid

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
16 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VH716CU	-
10 Way Split Load 3+4+3 100A Switch 2 x 63A 30mA RCCB 3 x MCB	5	VH7343U	-
16 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VH816CU	-
10 Way Split Load 3+4+3 100A Switch 2 x 80A 30mA RCCB 3 x MCB	5	-	VH8343UG
10 Way Split Load 5+4+1 100A Switch 2 x 80A 30mA RCCB 1 x MCB	5	VH854U	-
14 Way Split Load 7+6+1 100A Switch 2 x 80A 30mA RCCB 1 x MCB	6	VH876U	-



VF716CU

Split Load 100A Switch plus Twin RCCB Incomer with Unprotected Ways - Flush

Description	Enclosure size	Cat ref. Plain door
16 Way Split Load Configurable 100A Switch 2 x 63A 30mA RCCB	6	VF716CU
16 Way Split Load Configurable 100A Switch 2 x 80A 30mA RCCB	6	VF816CU

Insulated and metal enclosures, 1 row from 10 to 14 outgoing ways.

Surface mounted enclosures, with a rigid chassis, housing a Switch Disconnecter, Twin RCCB and 6 Amp RCBO.

Supplied with marking labels, busbar and instructions.

Options:

- Keylock
- Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

Split Load 100A Switch plus Twin RCCB Incomer with 6A RCBO - Insulated



VC776R

Description	Enclosure size	Cat ref. Plain door	Cat ref. Glazed door
10 Way Split Load 5+4+1 100A Switch 2 x 63A 30mA RCCB with 6A RCBO	5	VC754R	VC754RG
14 Way Split Load 7+6+1 100A Switch 2 x 63A 30mA RCCB with 6A RCBO	6	VC776R	-

Split Load 100A Switch plus Twin RCCB Incomer with 6A RCBO - Hybrid

Description	Enclosure size	Cat ref. Glazed door
10 Way Split Load 5+4+1 100A Switch 2 x 63A 30mA RCCB with 6A RCBO	5	VH754RG
10 Way Split Load 5+4+1 100A Switch 2 x 80A 30mA RCCB with 6A RCBO	5	VH854RG
14 Way Split Load 7+6+1 100A Switch 2 x 80A 30mA RCCB with 6A RCBO	6	VH876RG

Insulated and metal 1 row 12 outgoing way enclosures.

Surface mounted enclosures, with a rigid chassis, housing a Switch Disconnecter and 3 RCCBs.

Supplied with marking labels, busbar and instructions.

- Options:
- Keylock
 - Plain or glazed door

Complies with BS EN 60439-3 Annex ZA.

For complete accessories list see page 29.

For insulated and hybrid consumer unit dimensions see page 48.

Split Load 100A Switch plus Three RCCB Incomer with 40A RCCB - Insulated



VC8552

Description	Enclosure size	Cat ref. Plain door
12 Way Split Load 5+5+2 100A Switch 2 x 80A 30mA RCCB plus 1x 40A 30mA RCCB	6	VC8552

Split Load 100A Switch plus Three RCCB Incomer with 40A RCCB - Hybrid



VH8552

Description	Enclosure size	Cat ref. Plain door
12 Way Split Load 5+5+2 100A Switch 2 x 80A 30mA RCCB plus 1x 40A 30mA RCCB	6	VH8552

Insulated and metal enclosures
1 row from 12 to 18 outgoing
ways.

Surface mounted enclosures,
with a rigid chassis, housing a
Twin 63A or 100A Switch
Disconnecter.

Supplied with marking labels,
busbar and instructions.

Options:
• Keylock
• Plain or glazed door

Complies with BS EN 60439-3
and (Annex ZA 16kA conditional)

For complete accessories list
see page 29.

For insulated and hybrid
consumer unit dimensions see
page 48.

Twin and Multi Tariff - Insulated



VC912C

Description	Enclosure size	Cat ref. Plain door
12 Way Twin Tariff Configurable 2 x 100A Switch	6	VC912C
18 Way Twin Tariff Configurable 2 x 100A Switch	6	VC918C
12 Way Multitariff 6+5+1 2 x 100A 1 x 63A Switch	6	VC9651

Twin and Multi Tariff - Hybrid



VH918C

Description	Enclosure size	Cat ref. Plain door
18 Way Twin Tariff Configurable 2 x 100A Switch	6	VH918C

Skeleton consumer units are designed typically for use in installations in areas with pre-determined space available

e.g. Metering cupboards in Local Authority accommodation.

Complies with BS EN 60439-3 and Annex ZA.

For complete accessories list see page 29.

For dimensions see page 50.

Skeleton Units



VS710C

Description

Cat ref.
Plain door

12 Way 100A Switch Incomer

VS112

10 Way Split Load Configurable
100A Switch 1 x 63A 30mA RCCB

VS710C

12 Way Split Load Configurable
100A Switch 1 x 63A 30mA RCCB

VS712C

10 Way Split Load 5+4+1
100A Switch 2 x 63A 30mA RCCB

VS754U

1 x Switch Fed Way for RCBO or MCB (to feed smoke detector for example)

10 Way Split Load 5+4+1
100A Switch 2 x 80A 30mA RCCB

VS854U

1 x Switch Fed Way for RCBO or MCB (to feed smoke detector for example)

Consumer Units Single Phase and Switched Neutral

Insulated and metal enclosures
1 row from 8 to 14 outgoing
ways.

Supplied with marking labels,
SPSN busbar and instructions.

For complete accessories list
see page 29.

Surface mounted enclosures,
with a rigid chassis, housing a
Switch Disconnect or RCCB
Incomer.

Options:
• Keylock
• Plain or glazed door

For consumer unit dimensions
see page 48.

Complies with BS EN 60439-3.

Single Phase and Switched Neutral Consumer Unit - Hybrid

These units take Single Pole and Switched Neutral single module MCBs.

Description

Enclosure
size

Cat ref.
Glazed door

8 Way Metal Single Phase and Switched Neutral
100A 30mA RCCB Incomer

4

VH308NG

Metal enclosures 2 rows from 21 to 38 outgoing ways.

Surface mounted enclosures, with a rigid chassis, housing a Twin 63A or 100A Switch Disconnecter.

Supplied with marking labels, busbar and instructions.

Options:
 • Keylock
 • Plain or glazed door

Complies with BS EN 60439-3 and Annex ZA.

For complete accessories list see page 29.

For dimensions see page 49.

Two Row Hybrid Board - Hybrid



VH124

Description	Cat ref. Plain door	Cat ref. Glazed door
21 Outgoing Ways C/W 100A Switch	VH124	VH124G
26 Outgoing Ways C/W 100A Switch	VH129	VH129G
38 Outgoing Ways C/W 100A Switch	VH141	VH141G

Two Row Hybrid Split Load Board - Hybrid



VH726H1

Description	Cat ref. Plain door	Cat ref. Glazed door
26 Way Split Load 12+14 100A Switch 2 x 63A 30mA RCD	VH726H1	VH726H1G
38 Way Split Load 18+20 100A Switch 2 x 63A 30mA RCD	VH738H1	VH738H1G
26 Way Split Load 12+14 100A Switch 2 x 80A 30mA RCD	VH826H	VH826HG
38 Way Split Load 18+20 100A Switch 2 x 80A 30mA RCD	VH838H	VH838HG

The Hager consumer unit has been designed to be the most versatile consumer unit available on the market today.

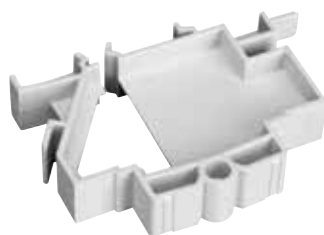
The accessories below can be used to customise standard consumer units and enclosures to almost any configuration.



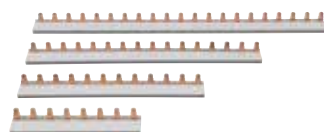
VAN00



VAM00



JK01B



8 - 22 Mod Bus Bars

Description	Pack qty	Cat ref. Plain	Cat ref. Glazed
1 Module busbar blank	25	JK01B	
2 Module DIN rail blank piece	5	VAS02	
100 Amp terminal block (MCB profile) fits directly onto busbar (cable capacity 50mm ²)	1	KRN190	
Surge protection kit	1	VA02SPD	
Neutral link	1	VAN00	
Door Locking kit	1	VAL00	
Incoming tail connection kit	1	VAM00	
Dual tariff link kit	1	VAK0D	
Split load link kit	1	VAK0S	
Triple tariff link kit	1	VAK0T	
8 Module busbar	1	VAB08	
12 Module busbar	1	VAB12	
16 Module busbar	1	VAB16	
21 Module busbar	1	VAB21	
14 Way SP&SN insulated busbar	1	VAB14N	
Terminal bar support clips	5	VAT00	
Terminal bar 2 way	1	VAT02	
Terminal bar 3 way	1	VAT03	
Terminal bar 4 way	1	VAT04	
Terminal bar 5 way	1	VAT05	
Terminal bar 6 way	1	VAT06	
Terminal bar 7 way	1	VAT07	
Terminal bar 8 way	1	VAT08	
Terminal bar 9 way	1	VAT09	
Terminal bar 10 way	1	VAT10	
Terminal bar 11 way	1	VAT11	
Terminal bar 12 way	1	VAT12	
Terminal bar 13 way	1	VAT13	
Terminal bar 14 way	1	VAT14	
Terminal bar 15 way	1	VAT15	
Terminal bar 16 way	1	VAT16	
Terminal bar 17 way	1	VAT17	
Terminal bar 18 way	1	VAT18	
Terminal bar 19 way	1	VAT19	
Terminal bar 20 way	1	VAT20	
Terminal bar 21 way	1	VAT21	
Terminal bar 22 way	1	VAT22	
Terminal bar 23 way	1	VAT23	
Terminal bar 24 way	1	VAT24	
Label pack	1	VAP00	
Front cover fixing	2	VAC00	
Front cover and door size 3	1	VAF3S	VAF3SG
Front cover and door size 4	1	VAF4S	VAF4SG
Front cover and door size 5	1	VAF5S	VAF5SG
Front cover and door size 6	1	VAF6S	VAF6SG
Seal strip size 3 - 8 module	2	VAR3S	
Seal strip size 4 - 12 module	2	VAR4S	
Seal strip size 5 - 16 module	2	VAR5S	
Seal strip size 6 - 22 module	2	VAR6S	

Our range of garage units comply with BS EN 60439-3 Annex ZA and are available as IP30 and IP55.

Garage units come pre-configured with 32A MCB and 6A MCB for power and lighting.

The weather proof range of consumer units designed to BS EN 60439-3 including Annex ZA.

Rated at IP55 protected against low pressure water splashing from all directions.

For dimensions see page 50.

Garage Unit



GD24H

Description

2 Way 40A RCCB with 32A MCB and 6A MCB, IP55
2 Way 40A RCCB with 32A MCB and 6A MCB, IP30

Cat ref.

VE24H
GD24H

IP55 Weather Proof



VW110G

Description

10 Way 100A Switch Incomer IP55
10 Way 100A 30mA RCCB Incomer IP55
20 Way Split Load 100A Switch 80A 30mA RCCB IP55

Cat ref.

VW110G
VW310G
VW620G

Miniature Circuit Breakers 6kA Type B Single Pole



Description

Protection and control of circuits against overloads and short circuits for use in domestic installations.

Technical data

Type B tripping characteristics complies with BS EN 60898. Calibration temperature 30°C
Breaking capacity: 6kA
Voltage rating: 230 - 400V
Current rating: 6 - 63A
Electrical operations: 20,000

Connection capacity

Rigid conductor 25mm²
Flexible conductor 16mm²

1 Mod = 17.5mm

Single Pole MCBs 6kA Type B



MTN163



Rating	Width (17.5mm)	Cat ref.
6A	1 Mod	MTN106
10A	1 Mod	MTN110
16A	1 Mod	MTN116
20A	1 Mod	MTN120
25A	1 Mod	MTN125
32A	1 Mod	MTN132
40A	1 Mod	MTN140
50A	1 Mod	MTN150
63A	1 Mod	MTN163

Miniature Circuit Breakers 10kA B, C & D Curve

Description

These MCBs allow you to ensure

- Protection of circuits against short circuits
- Protection of circuits against overload current
- Control
- Isolation

- In: 0.5A to 63A
- Un: 230V-400V

Isolation

The state of isolation is clearly indicated by the "OFF" mechanical position on the toggle with the green colour.

Connection capacity

- 25mm² flexible conductor
- 35mm² rigid conductor

Complies with:
• BS EN 60898 (10kA)

1 Mod = 17.5mm

Single Pole MCBs



NCN116A



Rating	Width (17.5mm)	Cat ref. "B" Curve	Cat ref. "C" Curve	Cat ref. "D" Curve
0.5A	1 Mod	-	NCN100A	NDN100A
1A	1 Mod	-	NCN101A	NDN101A
2A	1 Mod	-	NCN102A	NDN102A
3A	1 Mod	-	NCN103A	NDN103A
4A	1 Mod	-	NCN104A	NDN104A
6A	1 Mod	NBN106A	NCN106A	NDN106A
10A	1 Mod	NBN110A	NCN110A	NDN110A
16A	1 Mod	NBN116A	NCN116A	NDN116A
20A	1 Mod	NBN120A	NCN120A	NDN120A
25A	1 Mod	NBN125A	NCN125A	NDN125A
32A	1 Mod	NBN132A	NCN132A	NDN132A
40A	1 Mod	NBN140A	NCN140A	NDN140A
50A	1 Mod	NBN150A	NCN150A	NDN150A
63A	1 Mod	NBN163A	NCN163A	NDN163A

Compact protection devices which combine the overcurrent functions of an MCB with the earth fault functions of an RCCB in a single unit. A range of sensitivity and current ratings are available for use in domestic installations.

Technical Data
Insulated DIN clip
Complies with BS EN 61009, IEC1009
Sensitivities (fixed)
10mA and 30mA
Breaking capacity: 6kA
Flying neutral lead: 200mm

Connection Capacity
Rigid 16mm²
Flexible 10mm²

Application
1 module devices provide a compact solution for installation in consumer units.

These devices are 1pole & solid neutral.

Operating Voltage
127-230V AC
1 Mod = 17.5mm



ADN120

Sensitivity 30mA (6kA)

Current rating	Width (17.5mm)	Type B Cat ref.
6A	1 Mod	ADN106
10A	1 Mod	ADN110
16A	1 Mod	ADN116
20A	1 Mod	ADN120
32A	1 Mod	ADN132
40A	1 Mod	ADN140
45A	1 Mod	ADN145
50A	1 Mod	ADN150

Description

Protection and control of circuits against overloads and short circuits.

These devices only fit into the Single Pole & Switched Neutral Consumer Unit (VH308NG)

Isolation

The state of isolation is clearly indicated by the "OFF" mechanical position on the toggle with the green colour.

Technical Data

Type C tripping characteristics
Complies with BS EN 60898
Calibration temperature 30°C
Breaking capacity - 6kA
Voltage rating - 230VAC

Connection Capacity

Rigid 16mm²
Flexible 10mm²

1 Mod = 17.5mm



MLN710A

Single Pole and Switched Neutral MCB

Rating	Width (17.5mm)	Cat ref.
6A	1 Mod	MLN706A
10A	1 Mod	MLN710A
16A	1 Mod	MLN716A
20A	1 Mod	MLN720A
32A	1 Mod	MLN732A
40A	1 Mod	MLN740A

Description

Protection and control of circuits against overloads and short circuits. Only for use with the Single Pole and Switch Neutral Consumer Unit (VH308NG).

Technical Data

Characteristics type (fuse) gF
Breaking capacity
10-20A 4kA
25 & 32A - 6kA
Voltage rating - 250VAC

Connection Capacity

Rigid 16mm²
Flexible 10mm²
1 Mod = 17.5mm

Single Pole and Switched Neutral Fuse Carriers

Supplied without fuse fitted



L12401

Rating	Width (17.5mm)	Cat ref.
10A	1 Mod	L12401
16A	1 Mod	L12501
20A	1 Mod	L12601
25A	1 Mod	L12701
32A	1 Mod	L12801

Spare Fuses Type gF



Spare fuses

Rating	Dimensions	Cat ref.
10A	8.5 x 23mm	LF138
16A	10.3 x 25.8mm	LF139
20A	8.5 x 31.5mm	LF140
25A	10.3 x 31.5mm	LF141
32A	10.3 x 38mm	LF142

Protection and control of circuits against overloads and short-circuits:

Technical Data

Fuse carriers suitable for fuses which fully comply with the dimensional, power loss, fusing factor, discrimination and

time-current characteristic of BS 1361.

Complies with BS 1361-1971

- Short-circuit rating: 16.5kA (i.e. no further consideration of fault levels is necessary)
- Colour coded ratings.

Connection Capacities

Top: 16 mm² flexible cable & busbar.

BS 1361 Fuse Carriers

Complete with cartridge fuse. For single phase applications



LB113

Current rating	Colour	Width (17.5mm)	Cat ref.
5A 230V	White	1 Mod	LB113
15A 230V	Blue	1 Mod	LB115
20A 230v	Yellow	1 Mod	LB116
30A 230V	Red	1 Mod	LB118

BS 1361 HRC Spare Cartridge Fuses

Current rating	Colour	Cat ref.
5A (23 x 6.35 x 4.8mm)	White	L15300
15A (26 x 10.32 x 6.4mm)	Blue	L15500
20A (26 x 10.32 x 6.4mm)	Yellow	L15600
30A (29 x 12.7 x 8mm)	Red	L15800
Spare Fuse Holder up to 20A	-	L14700

To open a circuit automatically in the event an earth fault between line and earth, and/or neutral and earth. A wide range of current ratings and sensitivities are available.

Suitable for domestic, commercial and industrial applications.

Technical Data

Complies with BS EN 61008, IEC1008.

Sensitivities (Fixed)

10mA, 30mA, 100mA, 300mA & 100mA and 300mA time delayed.

Terminal capacities

16-63A Rigid 25mm²
Flexible 16mm²
80&100A Rigid 50mm²
Flexible 35mm²

Features

Positive contact indication is provided by the rectangular flag indicator.

Red = Closed

Green = Open

Indication of trip is provided by the oval flag indicator

Yellow = Tripped

All RCCBs have trip free mechanisms and can be padlocked either on or off.

Operating Temperature Range

- 5 to 40°C class AC
- 25 to 40°C class A

Operating Voltage

2P 110-230Vac

Width

2P = 35mm

2 Pole RCCB Sensitivity 10mA

Sensitivity type AC	Current rating	Cat ref.
10mA	16A	CCC216U

2 Pole RCCBs Sensitivity 30mA

Sensitivity type AC	Current rating	2 Pole Cat ref.
30mA	25A	CDC225U
30mA	40A	CDC240U
30mA	63A	CDC263U
30mA	80A	CD280U
30mA	100A	CD284U



CDC225U

2 Pole RCCBs Sensitivity 100mA

Sensitivity type AC	Current rating	2 Pole Cat ref.
100mA	25A	CEC225U
100mA	40A	CEC240U
100mA	63A	CEC263U
100mA	80A	CE280U
100mA	100A	CE284U

2 Pole RCCBs Sensitivity 300mA

Sensitivity type AC	Current rating	2 Pole Cat ref.
300mA	25A	CFC225U
300mA	40A	CFC240U
300mA	63A	CFC263U
300mA	80A	CF280U
300mA	100A	CF284U



CFC425U

To open a circuit automatically in the event an earth fault between line and earth, and/or neutral and earth. A wide range of current ratings and sensitivities are available.

Suitable for domestic, commercial and industrial applications.

Technical Data

Complies with BS EN 61008, IEC1008

Sensitivities (Fixed)

10mA, 30mA, 100mA, 300mA & 100mA and 300mA time delayed.

Terminal capacities

16-63A Rigid 25mm²
Flexible 16mm²
80&100A Rigid 50mm²
Flexible 35mm²

Features

Positive contact indication is provided by the rectangular flag indicator.
Red = Closed
Green = Open
Indication of trip is provided by the oval flag indicator
Yellow = Tripped

All RCCBs have trip free mechanisms and can be padlocked either on or off.

Operating Temperature Range

- 5 to 40°C class AC
- 25 to 40°C class A

Operating Voltage

2P 110-230Vac

Width

2P = 35mm

Time Delayed AC Sensitive



CP284U

Sensitivity type AC	Current rating	2 Pole Cat ref.
100mA	100A	CN284U
300mA	100A	CP284U

Type A DC Sensitive



CDA425U

Sensitivity type AC	Current rating	2 Pole Cat ref.
10mA	16A	CCA216U
30mA	25A	CDA225U
30mA	40A	CDA240U
30mA	63A	CDA263U

Terminal Covers

Current rating	2 Pole Cat ref.
16 - 63A	CZN005
80 - 100A	CZ007

Compact protection devices which provide MCB overcurrent protection and RCCB earth fault protection in a single unit. Complies with BS EN 61009.

Technical Data

The units are available with current ratings of 6A, 10A, 16A, 20A, 25A, 32A and 40A. The device switches both the line and neutral conductors. All ratings have 30mA earth fault protection. The units feature indicators which show whether tripping is due to an overcurrent or earth fault.

Breaking capacity: 6kA
Voltage rating: 110-230V.
Current rating: 6-40A.
Operations
Mechanical life:
20,000 operations

2 Mod = 35mm

Connection Capacity

Rigid conductor 25mm²
Flexible conductor 16mm²

RCBO Single Pole and Switched Neutral

RCBO tripping current (30mA) with flying 700mm lead for neutral connection.

Note: For use in consumer units and distribution boards only.



ADA990U

Current rating	Width (35mm)	Type B Cat ref.	Type C Cat ref.
6A	2 Mod	ADA906U	ADA956U
10A	2 Mod	ADA910U	ADA960U
16A	2 Mod	ADA916U	ADA966U
20A	2 Mod	ADA920U	ADA970U
25A	2 Mod	ADA925U	ADA975U
32A	2 Mod	ADA932U	ADA982U
40A	2 Mod	ADA940U	ADA990U

Allows MCB's, RCCB's and RCBO's to be locked in the off position.

Will accept two padlocks with hasps of 4.75mm diameter max (supplied without padlock).

Locking Kit



MZN175

Description

Padlockable locking kit for MCB, RCCB & RCBO

Cat ref.

MZN175

Surge Protection Devices and Surge Protection Kit

SPD's protect electrical and electronic equipment against transients, originating from lightning, switching of transformers, lighting and motors.

These transients can cause premature ageing of equipment, downtime, or complete destruction of electronic components and materials.

SPDs are strongly recommended on installations that are exposed to transients, to protect sensitive and expensive electrical equipment such as TV, video, washing machines, Hi-Fi, PC, alarm etc.

The choice of SPD depends on a number of criteria such as:

- The risk of lightning strikes
- The exposure of the building to transients
- The sensitivity and value of the electrical equipment that requires protection
- Earthing system
- Level of protection

The range of SPDs is separated into 3 types of protection:

1. Main protection - class 1
SPDs with higher discharge current (I_{max} 10/350), to evacuate as much of the transient overvoltages associated with lightning strikes
2. Main protection - class 2
With a discharge current (I_{max} 8/20), to evacuate as much of the transient overvoltage to earth as possible protection level ($U_p \leq 1000V$)

3. Main protection - class 3
To cut-down the transient surge as low as possible to protect very sensitive equipment

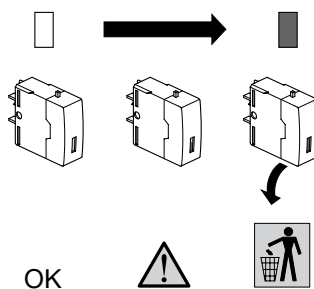
Technical Data

Complies with IEC61643-1

Reserve Status Indicator (R versions)



End of Life Indicator (D versions)



Auxiliary contact for remote signalling (R versions only)



230V~ 1A
12V ... 10mA

Installation and Connection

The main protection SPDs are installed directly after the main incoming switch or RCCB (type S).

SPDs can be used in any supply system e.g. TNCS, TNS, TT.

Options: Replacement cartridges.

Connected in parallel to the equipment to be protected.

Protection is assured in both common and differential modes.

SPDs with Low Let Through Voltage Levels Type 3
To protect very sensitive electronic equipment. This fine protection complements the main protection and can protect 1 or many electronic devices.

Optimal coordination is obtained when cascaded with a main protection device.

Discharge current

I_{max} 8kA (8/20 wave)
a green LED on the front face indicates the status of the SPD SP202N, connected in series with the equipment that needs to be protected (with a maximum line current of 25A). Protection is assured in both common and differential modes.

Connection Capacity

- Terminal blocks L, N & E
- Rigid conductor: 10mm²
 - Flexible conductor: 6mm²

Replacement Cartridges

The cartridges replace the cartridge in the main SPN devices.

They allow simple replacement without the need to cut-off the power supply.
Cartridges are available for all discharge currents (40kA and 15kA) with and without condition indication.

A keying system exists to prevent a line cartridge being interchanged by mistake with a neutral one and visa versa neutral cartridges have a discharge current of 65kA.

	TNS	TNC-S	TT
SPA201	✓	✓	✓
SPN215D	✓	✓	✓
SPN240D	✓	✓	✓
SP202N	✓	✓	✓

Consumer Unit Kit Type 2 SPD with SPN215D (with lifetime indicator)

Consists of: Neutral terminal bar, 3x 20mm neutral link bar 370mm, 300mm & 200mm lengths, 4mm² neutral, live & earth cables, 2 connector busbar, 4 way terminal bar, terminal bar clip, 1x Double Pole SPD's, 32A MCB.

Poles	I_{imp} L-N	I_{imp} N-PE	I_n kA L-N	I_n kA N-PE	Up kV Three Phase	Single or	Width (mm)	Cat ref.
2	-	-	5	15	≤ 1.2	Single	35	VA02SPD



VA02SPD installed inside a consumer unit



SPA201

Class 1 + 2 (Class 1 + 2 + 3 if less than 5m) (with lifetime indicator)

Poles	I_{imp} kA L-N	I_{imp} kA N-PE	I_n kA L-N	I_n kA N-PE	Up kV	Single or Three Phase	Width (mm)	Cat ref.
2	12.5	25	-	-	≤ 1.5	Single	35	SPA201*

* This SPD device is of the monoblock type construction. At end of life, the complete product should be replaced.



SPN415D

Class 2 (with lifetime indicator)

Poles	I_{imp} kA L-N	I_{imp} kA N-PE	I_n kA L-N	I_n kA N-PE	Up kV	Single or Three Phase	Width (mm)	Cat ref.	Cat ref. with remote contact
2	-	-	5	15	≤ 1.2	Single	35	SPN215D	SPN215R
2	-	-	15	40	≤ 1.5	Single	35	SPN240D	SPN240R

Replacement Cartridges

Dimensions	Cat ref.
Line replacement for SPN215D & SPN415D	SPN015D
Line replacement for SPN215R & SPN 415R	SPN015R
Neutral replacement for SPN215D, SPN415D, SPN215R & SPN415R	SPN040N



SPN040D

Class 3 (fine protection) (with lifetime indicator)

Poles	I_{imp} kA L-N	I_{imp} kA N-PE	I_n kA L-N	I_n kA N-PE	Up kV	Single or Three Phase	Width (mm)	Cat ref.
2	-	-	3	-	≤ 1.5	Single	35	SP202N



SP202N

Description

For the remote switching and control of power circuits (20A-63A AC1)

Technical Data

The choice of contactor depends upon a number of parameters, e.g.

- The nature of the supply
- The power it is switching
- The characteristics of the load
- The control voltage required
- Number of operations

All contactor ratings are for AC1 loads only – if the load differs from AC1 the contactor may need de-rating.

The use of LZ060 (heat dissipation inserts) between all contactors installed or between contactors and adjacent devices is required.

Options

Contact choice

- Normally open (NO)
- Normally closed (NC)

1 Mod = 17.5mm

2 Mod = 35mm

3 Mod = 52.5mm

Auxiliary

All contactors will accept auxiliary, ESC080 contact.



ESC225



ESC425

Standard Contactors

Description	Coil AC voltage	Power circuit AC1	Width	Cat ref.
25A 1NO	230V 50Hz	25A - 250V~	1 Mod	ESC125
25A 2NO	230V 50Hz	25A - 250V~	1 Mod	ESC225
25A 2NO Manual Override	230V 50Hz	25A - 250V~	1 Mod	ERC225
40A 2NO	230V 50Hz	40A - 400V~	3 Mod	ESC240
63A 2NO	230V 50Hz	63A - 400V~	3 Mod	ESC263
25A 2NO	24V 50Hz	25A - 250V~	1 Mod	ESD225
25A 2NO Manual Override	24V 50Hz	25A - 250V~	1 Mod	ERD225
40A 2NO	24V 50Hz	40A - 250V~	3 Mod	ESD240
25A 2NC	230V 50Hz	25A - 250V~	1 Mod	ESC226
25A 1NO 1NC	24V 50Hz	25A - 250V~	1 Mod	ESD227
25A 3NO	230V 50Hz	25A - 400V~	2 Mod	ESC325
25A 3NO Manual Override	230V 50Hz	25A - 400V~	3 Mod	ERC326
40A 3NO	230V 50Hz	40A - 400V~	3 Mod	ESC340
40A 3NO + 1NC	230V 50Hz	40A - 400V~	3 Mod	ESC443
63A 3NO + 1NC	230V 50Hz	63A - 400V~	3 Mod	ESC466
25A 4NO	230V 50Hz	25A - 400V~	2 Mod	ESC425
40A 4NO	230V 50Hz	40A - 400V~	3 Mod	ESC440
63A 4NO	230V 50Hz	63A - 400V~	3 Mod	ESC463
25A 4NO	24V 50Hz	25A - 400V~	2 Mod	ESD425
25A 4NC	230V 50Hz	25A - 400V~	2 Mod	ESC426
40A 4NC	230V 50Hz	40A - 400V~	3 Mod	ESC441
63A 4NC	230V 50Hz	63A - 400V~	3 Mod	ESC464
63A 2NC + 2NO	230V 50Hz	63A - 250V~	3 Mod	ESC465

Auxiliaries and Accessories

Description	Width	Cat ref.
Heat Dissipation Insert	½ Mod	LZ060
1NO + 1NC Auxiliary Contact 6A - 250V~	½ Mod	ESC080



ESC080

Description

For the remote switching and control of power circuits where noise may be a concern i.e hotel bedrooms etc.(20A-63A AC1).

Technical Data

The choice of contactor depends upon a number of parameters, e.g.

- The nature of the supply
- The power it is switching
- The characteristics of the load
- The control voltage required
- Number of operations

All contactor ratings are for AC1 loads only – if the load differs from AC1 the contactor may need de-rating.

The use of LZ060 (heat dissipation inserts) between all contactors installed or between contactors and adjacent devices is required.

Options

Contact choice

- Normally open (NO)
- Normally closed (NC)

Auxiliary

All contactors will accept auxiliary, ESC080 contact.

1 Mod = 17.5mm
2 Mod = 35mm
3 Mod = 52.5mm



ESC225S



ESC463S

Low Noise Contactors

Description	Coil AC voltage	Power circuit AC1	Width	Cat ref.
25A 2NO	230V 50Hz	25A - 400V~	1 Mod	ESC225S
40A 2NO	230V 50Hz	40A - 400V~	3 Mod	ESC240S
63A 2NO	230V 50Hz	63A - 400V~	3 Mod	ESC263S
25A 3NO	230V 50Hz	25A - 400V~	2 Mod	ESC325S
40A 3NO	230V 50Hz	40A - 400V~	3 Mod	ESC340S
25A 3NO + 1NC	230V 50Hz	25A - 400V~	2 Mod	ESC428S
25A 4NO	230V 50Hz	25A - 400V~	2 Mod	ESC425S
40A 4NO	230V 50Hz	40A - 400V~	3 Mod	ESC440S
63A 4NO	230V 50Hz	63A - 400V~	3 Mod	ESC463S
25A 4NC	230V 50Hz	25A - 400V~	2 Mod	ESC426S



ESC003



ESC080

Auxiliaries and Accessories

Description	Width	Cat ref.
Heat Dissipation Insert	½ Mod	LZ060
Sealable Terminal Cover for 1 Module Contactors		ESC001
Sealable Terminal Cover for 2 Module Contactors		ESC002
Sealable Terminal Cover for 3 Module Contactors		ESC003
1NO + 1NC Auxiliary Contact 6A - 250V~	½ Mod	ESC080

Description

Manual override facility allows temporary override, with automatic return at next coil energisation. Permanent off can also be selected.

Technical Data

The choice of contactor depends upon a number of parameters, e.g.

- The nature of the supply
- The power it is switching
- The characteristics of the load
- The control voltage required
- Number of operations

All contactors ratings are for AC1 loads only – if the load differs from AC1 the contactor may need de-rating.

The use of LZ060 (heat dissipation inserts) between all contactors installed or between contactors and adjacent devices is recommended.

Options

Contact choice

- Normally open (NO)
- Normally closed (NC)

Auxiliary

All contactors will accept auxiliary, ESC080 contact.

- 1 Mod = 17.5mm
- 2 Mod = 35mm
- 3 Mod = 52.5mm



ETC225S

2 NO

Coil AC voltage	Power circuit AC1	Width	Cat ref.
230V 50 Hz	25A - 250V~	1 Mod	ETC225S *
230V 50 Hz	25A - 250V~	1 Mod	ETC225

*Hum free device

3 NO

Coil AC voltage	Power circuit AC1	Width	Cat ref.
230V 50 Hz	20A - 400V~	2 Mod	ETC325
230V 50 Hz	40A - 400V~	3 Mod	ETC340



ETC425

4 NO

Coil AC voltage	Power circuit AC1	Width	Cat ref.
230V 50 Hz	20A - 400V~	2 Mod	ETC425
230V 50 Hz	40A - 400V~	3 Mod	ETC440

Auxiliary for 20A Contactors

Power circuit AC1	Width	Cat ref.
2A - 250V~	½ Mod	ESC080

Accessories

Description	Width	Cat ref.
Heat Dissipation Insert	½ Mod	LZ060

For the control of lighting, heating, household appliances, shop windows, signage etc., to improve comfort and to save energy.

EG103 and EG203

(Basic Version) Product set at current time and date when delivered. Automatic change of Summer / Winter time.

Programming Key

- To allow easy back up and re-installation of the program to allow permanent program overrides
- Programming per day or group of days
- 56 ON / OFF programme steps
- Permanent ON/OFF overrides
- Temporary ON/OFF overrides bar graph indication showing the daily profile
- Possibility of locking the keyboard with EG004

- Programming without the need to be energised

EG103E/V and EG203E

(Evolution Versions)
Same characteristics as EG103 and EG203 plus more:

- Holidays mode: forcing ON or OFF between two dates
- Presence simulation - random switching
- Backlit screen
- Impulse programming capability (1s to 30 min)

Connection

EG 010 / EG 071 : 0.5 to 4mm²
EG 103/E and EG 203/E :
1 to 6mm² Flexible
1.5 to 10mm² Rigid

Operating Voltage

230~ 50/60 Hz
(except EG103V
- 12/24V AC/DC)



EG071

1 Channel Digital Time Switch

Not compatible with program key

Characteristics	Width	Cat ref.
Daily Cycle, 5 Adjustable pre-recorded programs 6 Switchings per day (3 on and 3 off), Output: 1 changeover contact 16A - 250V~ AC 1, 3 year reserve	1 Mod	EG010
Weekly Cycle, Output: 1 changeover contact, 16A - 250V~ AC 1, Capacity 20 program steps, 3 year reserve	1 Mod	EG071



EG103

1 Channel Digital Time Switch

Characteristics	Width	Cat ref.
Weekly Cycle (Basic Version), Output: 1 changeover contact 16A - 250V~ AC 1, Delivered with key EG005	2 Mod	EG103
Weekly Cycle (Evolution Version), Output: 1 changeover contact 16A - 250V~ AC 1, Delivered with key EG005	2 Mod	EG103E
Weekly Cycle (Evolution Version), Output: 1 changeover contact 16A - 250V~ AC 1, Operating Voltage 12/24V AC/DC, Delivered with key EG005	2 Mod	EG103V

2 Channel Digital Time Switch

Characteristics	Width	Cat ref.
Weekly Cycle (Basic Version), Output: 2 changeover contact 16A - 250V~ AC 1, Delivered with key EG005	2 Mod	EG203
Weekly Cycle (Evolution Version), Output: 2 changeover contact 16A - 250V~ AC 1, Delivered with key EG005	2 Mod	EG203E

PC Interface and Software Tool

Interface between PC and key interface module with software on CD

Connection	Pack qty.	Cat ref.
RS232	1	EG003
USB	1	EG003U

Accessories

Description	Pack qty.	Cat ref.
Locking key (yellow colour) to prevent unauthorised re-programming of all EG time clocks (except EG010, EG071)	1	EG004
Spare programming key (grey colour) for timers EG103, EG103V, EG203, EG103E, EG203E	1	EG005
DIN Rail storage module for EG004 or EG005	1	EG006

Description

The hager range is composed of two astrological time switches EE180/EE181.

The range offers the following features:

- Programming of the lighting interruption
- Automatic change of winter / summer time

- Astro program and expert program with individual Astro program steps
- Programming for day or group of days (same concept as our existing clocks with key)
- Weekly programming
- Permanent override
- Temporary overrides

- Programming of holiday period
- Programming via the PC software and the associated interface (EG003)

1 Mod = 17.5mm
2 Mod = 35mm



EE180

1 Channel Astrological Time Switch

Characteristics

Weekly Cycle, 230V~, 50Hz Changeover Contact 16A AC1, Operating reserve lithium battery 5 years, Delivered with key EG005

Width

2 Mod

Cat ref.

EE180



EE181

2 Channel Astrological Time Switch

Characteristics

Weekly Cycle, 230V~, 50Hz 2 Changeover Contact 16A AC1, Operating reserve lithium battery 5 years, Delivered with key EG005

Width

2 Mod

Cat ref.

EE181

Accessories

Description

Spare programming key (grey colour) for timers EG103, EG103V, EG203, EG103E, EG203E

Pack qty.

1

Cat ref.

EG005

Description

Energy meters are used to measure the active energy consumed by an installation. They allow the user to understand and control the real cost of an installation and to divide the consumption between the different appliances.

MID approval for sub billing on EC154M.

Characteristics

- Fully compliant with the European standard EN 50470-3
- Class B
- Accuracy 1%
- Energy readout: 7 digits
- Backlit display
- Indication of instantaneous power consumption
- Total / partial counter (expected MID references)

- Pulsed output
- Unlimited saving of measurements
- LED flashes according to consumption
- Option: tariff 1/ tariff 2
- Three phase energy meters are adapted to all kind of networks
- Display indication in case of incorrect wiring

1 Mod = 17.5mm
3 Mod = 52.5mm

Note:
Use of heat dissipation inserts (cat ref. LZ060) are recommended on each side of direct connection meters.

Single Phase kWh Meters

Voltage 230V~ 50Hz
Direct connection
In = 320mA - 32A



EC050

Characteristics	Width	Cat ref.
Total counter, non resettable counter	1 Mod	EC050
Total counter, non resettable counter, pulsed output 1 pulse = 100Wh	1 Mod	EC051

Single Phase kWh Meters - Direct 63A

Voltage 230V~ 50/60Hz
Starting current = 40mA
Base current = 10A
Max current = 63A

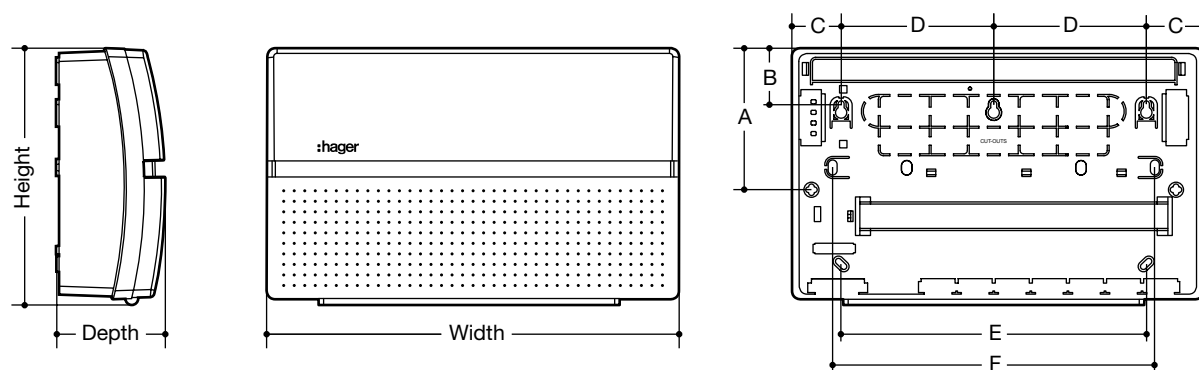


EC150

Characteristics	Width	Cat ref.
Energy meter with pulsed output and total / partial counter	3 Mod	EC150
Energy meter with pulsed output - total / partial counter and 2 tariffs	3 Mod	EC152
Energy meter with pulsed output - with MID approval	3 Mod	EC154M

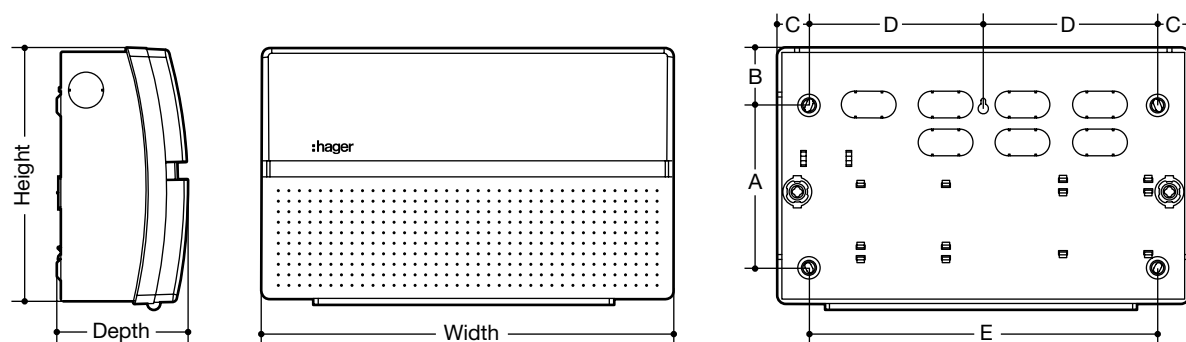


EC154M



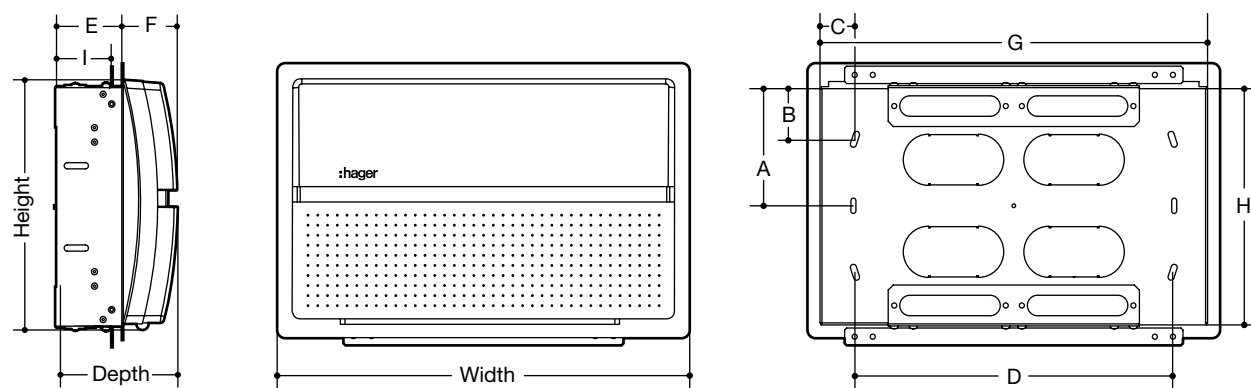
Insulated Enclosures

Enclosure Size	Dimensions (mm)			Fixing Centres (mm)					
	Width	Height	Depth	A	B	C	D	E	F
VC201	110	180	94	-	-	-	-	-	-
VC202	110	180	94	-	-	-	-	-	-
3	240	245	105	115	50	45	72	145	160
4	310	245	105	115	50	45	107	215	230
5	380	245	105	115	50	45	143	285	302
6	490	245	105	115	50	45	195	395	410



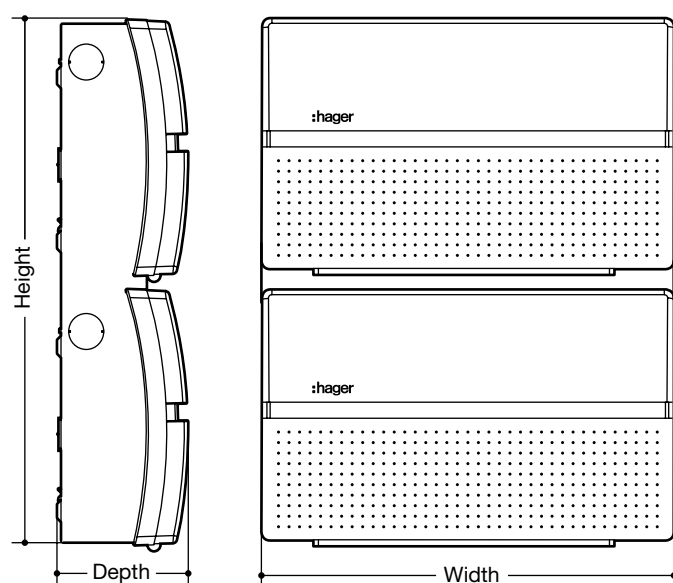
Hybrid Enclosures

Enclosure Size	Dimensions (mm)			Fixing Centres (mm)				
	Width	Height	Depth	A	B	C	D	E
VH201	168	193	124	-	-	-	-	-
VH202	168	193	124	-	-	-	-	-
2	220	230	110	165	32	55	N/A	163
3	240	245	120	150	55	30	89	178
4	310	245	120	150	55	30	125	250
5	380	245	120	150	55	30	160	320
6	490	245	120	150	55	30	214	429



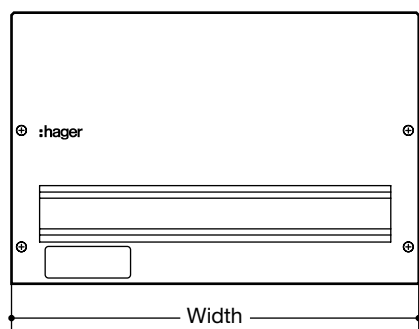
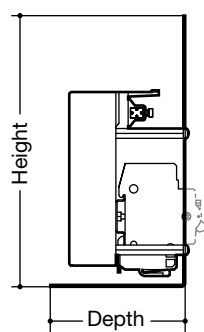
Flush Enclosures

Enclosure Size	Dimensions (mm)			Fixing Centres (mm)						Cut out size (mm)		
	Width	Height	Depth	A	B	C	D	E	F	G	H	I
5	413	257	120	115	50	50	290	65	55	388	232	55
6	520	257	120	115	50	50	397	65	55	495	232	55



Hybrid Enclosures

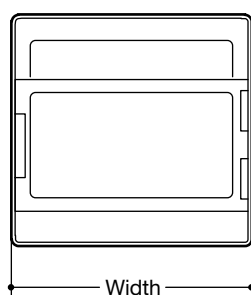
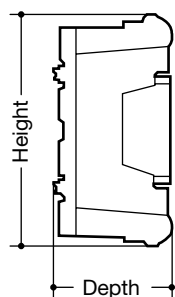
Enclosure Size	Dimensions (mm)		
	Width	Height	Depth
VH124	309.5	503.8	121.5
VH124G	309.5	503.8	121.5
VH129	381	503.8	121.5
VH129G	381	503.8	121.5
VH141	488.5	503.8	121.5
VH141G	488.5	503.8	121.5
VH726H1	381	503.8	121.5
VH726H1G	381	503.8	121.5
VH738H1	488.5	503.8	121.5
VH738H1G	488.5	503.8	121.5
VH826H	381	503.8	121.5
VH826HG	381	503.8	121.5
VH838H	488.5	503.8	121.5
VH838HG	488.5	503.8	121.5



Skeleton (Mantel)

Dimensions (mm)

Width	Height	Depth	Fixing Centres (mm)
331	221	74	320



Garage Units & IP55 Weather Proof

	Dimensions (mm)		
	Width	Height	Depth
VE24H	180	110	82
GD24H	168	193	113
VW110G	310	302	151
VW310G	310	302	151
VW620G	310	427	151

					Tightening torque (N.m)		Cable Stripping (mm)
	Pz No.	(mm)	(mm)		Single Cable	Multi Cables	
Consumer unit terminals							
Earth and neutral terminal bars	2	6.5	-	-	2	2	10
Isolation							
SB switch disconnectors	2	6.5	-	-	3.2	3.2	15
Circuit protection							
MTN MCB	2	6.5	-	-	2	2	13
NBN/NCN/NDN MCB	2	6.5	-	-	2	2	13
RCBO	2	5.5	-	-	2	2	13
RCCB	2	5.5	-	-	2	2	13

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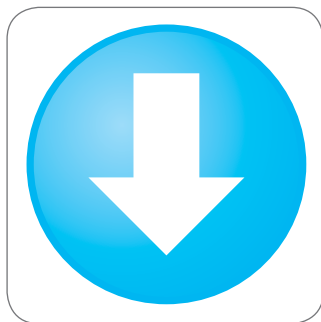


QR Codes

What is a QR code?

You may have seen that we have added these square images to a lot of our new literature. These are called QR codes. QR, or Quick Response codes, are a type of barcode which can be read by a smartphone camera. Scanning the image will link you straight to the content you require without having to type in website URL.

How does it work?



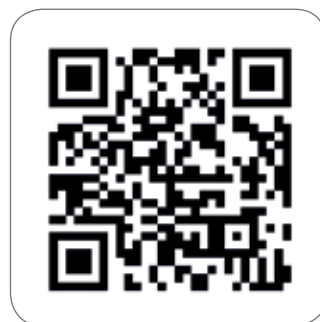
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