



! elucian

The complete consumer unit

Elucian by Click® brings to market a comprehensive Consumer Unit and Circuit Protection range.

Following months of extensive research and consultation with contractors and installers, we developed a range of products that best suits their requirements and that are compliant with all the latest regulations.

Designed with the installer in mind, Elucian is an extensive range of metal consumer units that will cover a broad range of installations and offers a number of features and benefits that will enhance the products' convenience, flexibility and safety properties.





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Keeping Up with

Regulations...

The Elucian consumer units range has been designed to ensure compliance with BS 7671. Our engineers have considered how installers need to comply with the UK wiring regulation when installing consumer units in properties across the UK. The Elucian range has comprehensive options for every installation. These consist of Main Switch units, Split Load units and our Combination units.

Overload Protection (536.4.3.2) & (536.4.202)

Overload protection must be considered when RCCBs have the ability to become overloaded due to the total amount of current being taken by the final circuits being offered protection.

The designer and installer must therefore select the correct rated device from the options we have made available; 63Amp, 80Amp or 100Amp. To make this process easer we have installed 80Amp devices as standard.

Types of RCD (531.3.3)

Many different types of RCD exist. BS 7671 recognises types AC, A, F and B. Currently AC RCDs are recognised as acceptable for general purpose. However, if the installation has any DC components or frequency alterations due to connected loads one of the other types must be selected.

As most installations in the UK now have some DC components, it would be prudent to select a type A RCD that has the ability to work with DC fault current. We have produced type A RCDs only as they comply with the requirements of the AC type, and include added benefits of the DC threshold.

Overcurrent Protection (Section 443) & (Section 553)

SPDs offer very effective protection against overvoltage. Section 443 covers the requirements for consideration when selecting SPDs in the electrical system. Section 533 confirms what types are required and where they must be installed within the electrical system.

We have designed our SPD consumer unit to incorporate a type 2 device. These devices offer protection from manmade overvoltages or lightning strikes within the vicinity of the installation.

Having SPDs installed adjacent to the main switch allows for compliance with the maximum cable length from the SPD to Earth.

Division of Installation (Section 314)

This regulation set requires the designer and installer to ensure the installation is divided up as necessary to:

- (i) Avoid danger and minimise inconvenience in the event of a fault.
- (ii) Facilitate safe inspection, testing and maintenance.
- (iii) Take account of hazards that may arise from the failure of a single circuit such as a lighting circuit.
- (iv) Reduce the possibility of unwanted tripping of RCDs due to excessive protective conductor current or due to fault.
- (v) Mitigate the effects of electromagnetic disturbances.
- (vi) Prevent the indirect energization of a circuit intended to be isolated.

Overload

Protection of RCDs...

These devices have the ability to be overloaded if the combined outgoing current from the final circuits is greater than the rating of the RCCB. Therefore, we provide an 80Amp device as standard with the ability to change this to a 100Amp, or reduce to a 63Amp if required.



Comply with

the regs...

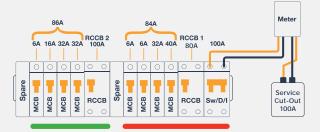
Regulations 536.4.3.2 and 536.4.202 require the designer to understand the loading profile of the RCCBs within the consumer unit. RCCBs will protect a number of outgoing circuits at the same time.

Method 1

Method 2

Example 1:

This install would not comply. RCCB1 could be subject to overload.



Example 2:

This installation would comply. Although RCCB1 could potentially become overloaded, the protective device at the origin would offer overload protection.



Example 3:

RCBOs offer comprehensive protection as each device is rated to the circuit.



8000A 30mA

230V-220 55 EW1100-4

RCD & RCBO

Protective Devices...

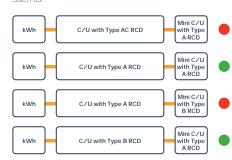
RCDs are available in a number of common types; AC, A, F or B. Dependant on the characteristics of the final circuit/s being controlled, the type of RCD selected is very important. If it is believed DC current could be present in the protected circuit/s due to the equipment connected, the designer should select a device capable of working with that DC current present.

General RCDs are designed to operate instantaneously without intentional delay; because of this they are not designed to discriminate in the event of a fault. Therefore, if two general RCDs were to be installed in series, both may operate when a fault presents itself. To avoid this, selectivity is essential between the installed devices to reduce the unintentional operation of a device upstream from the leakage to Earth.

Installing the correct type of device is essential if it is believed DC fault current could be present within the installation.

It is important not to install an RCD type that is capable of handling DC fault current ahead of a device that isn't able to operate with these currents.

Such as:







Type A RCD

In today's installations the majority of equipment does have some residual DC current due to the internal electronics. The magnitude of this current can have a detrimental effect on the effectiveness of the protective device. Therefore, we have taken the decision to manufacture Type A devices only.

Type A devices have the ability to continue to work with up to 6mA of DC fault current present. This amount of fault current has been shown to stop AC Type RCDs/RCBOs from working within the maximum time permitted in BS76761.

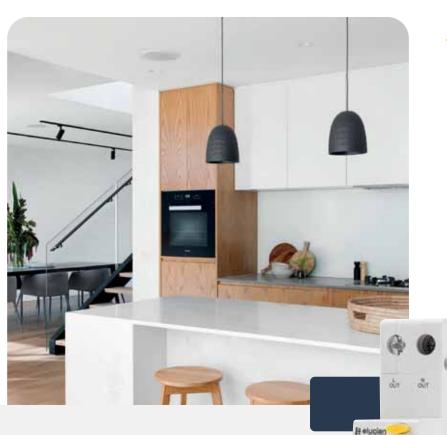
RCCB - Residual Current Operated Circuit Breaker, without integrated overcurrent protection.



These devices combine the functionality of an MCB and RCD into one single device/module. Available as a type A RCD with different inrush curve types B or C, these protective devices have been miniaturised to maximise the available space above for termination or final circuits.

The Neutral fly lead has been made long enough to ensure safe connection to the dedicated Neutral bars.

RCBO - Residual Current Operated Circuit Breaker, with integrated overcurrent protection.



Increase Protection

with AFDDs...

What is an AFDD?

An AFDD is a device that is installed in your consumer unit to protect against arc faults. It does this by monitoring the waveform of electricity being used to detect unusual signatures that would signify an arc.

When an arc is detected, power to the circuit is cut off and the threat of fire is minimised. They are specifically designed to be more sensitive to arcs than regular circuit protection devices.





Warranty









Capacity

The smart way to detect arc faults in your circuit. required for AFDDs to be installed for circuits supplying socket outlets in 4 areas;

- Purpose Built Student Accommodation
- · Care Homes

Enhanced Protection Against Arc Faults

With the amendment 2 of the 18th Edition it is now

High Risk Residential Buildings (18M or 6 Storeys +)

- Houses of Multiple Occupancy (HMO).

AFDD Detection

Condition	Repeat for 25 Seconds
Series Arc Fault	● •—— 15 sec ——• ●
Parallel Arc Fault	● ● • 15 sec • ● ●
Over Voltage Fault	● ● ● • 15 sec • ● ●
Self Test Fault	• • • • • • • • • • • • •
No Fault	

Self Test Overview:

- The Self Test feature is carried out automatically within each hour.
- In the event of a Self-Test failure, the AFDD will trip with the fault identified by the LED flashing sequence.

What can an AFDD Detect?

· A series arc fault

Is where the arc happens between two parts of the same conductor, such as a broken line conductor or a poorly terminated line conductor.

· A parallel arc fault

Is where the arc occurs between the line conductor and either the neutral or earth conductors. If an arc fault occurs between line and earth there is quite a high likelihood that the RCD part of the AFDD will also operate.

Over Voltage Detection

This may indicate that the property has had a surge in voltage, if this continues you would need to contact the Electricity provider for your property.



Surge

Protection...

Transient Overvoltages

Many installations across the UK have electronic components within them.

Surge protection will offer those devices and appliances protection from overvoltage.

Products such as computers, printers, flat screen televisions, alarms, microwaves and washing machines are commonplace. These can all be vulnerable to transient overvoltages, which can significantly reduce the equipment's lifespan through degradation and damage.

A transient overvoltage or surge is a short duration increase in voltage measured between two or more conductors. In short, this means anything from microseconds (millionths of a second) to a few milliseconds (thousandths of a second) in duration.

Example

A domestic consumer unit with 500m of LV supply overhead (Lpal) and 500m of supply underground (Lpcl);

 $CRL = f_{env}/(L_p \times N_q)$

CRL = 85 / (2X0.5) x 0.5

CRL = 170

Which means that surge protection will be required.

Covers Overvoltage Control (443.5)

Calculated risk level (CRL) is used to determine if protection against overvoltages of atmospheric origin is required. The CRL is found by the following formula:

 $CRL = f_{env}/(L_p x N_q)$

f_{env} - is an environmental factor selected according to Table 443.1 (Rural/Suburban or Urban)

L_p - is the risk assessment length in km

 N_g - is the lightning ground flash density (flashes per km² per year) relevant to the location of the power line and connected structure (see figure 44.2).

If the CRL value is less than 1000 then SPD protection should be installed. If the CRL value is 1000 or more then SPD protection is not required.

Covers Overvoltage Control (443.4)

Protection against overvoltages shall be provided where the consequence caused by overvoltage could:

- (i) Result in serious injury to, or loss of, human li
- (ii) Result in the interruption of public services and/or damage to cultural heritage
- (iii) Result in interruption of commercial or industrial activit
- (iv) Affect a large number of co-located individuals

For all other cases, a risk assessment according to regulation 4435 shall be performed to determine if protection against transient over-voltage is required. If the risk assessment is not performed, the electrical installation shall be provided with protection against transient over-voltages, except for single dwelling units where the total value of the installation and equipment therein does not justify such protection.

Protection against switching overvoltages shall be considered in the case of equipment likely to produce switching overvoltages or disturbances exceeding the values according to the voltage category of the installation, e.g. where an LV generator supplies the installation or where inductive o capacitive loads

(e.g. motors, transformers, capacitor banks) storage units or high-current loads are installed



SPD Type 2

SPD which can prevent the spread of overvoltages in the electrical installations and protects equipment connected to it. It usually employs metal oxide varistor (MOV) technology and is characterised by an 8/20 us current wave

Terminology

I_{imp} – Impulse current of 10/350 µs waveform

 I_n - Surge current of 8/20 μ s waveform associated with Type 2 SPI

 J_n - The residual voltage that is measured across the terminal of the SPD when In is applied

 U_{z} - The maximum voltage which may be continuously applied to the SPD without it conducting

Maximum short circuit current of the device



Consumer Units III A BE AND A 18 Functional, stylish, and innovative, our Elucian range of consumer units provides an exceptional option for any residential or light commercial environment. Packed with features making installation quick and simple for electricians, with a clear labelling kit for easy identification for the customer. A great range of configurations and sizes makes Elucian perfect for any installation requirement. **!** elucian

Features &

Benefits...



Metal Consumer Units

All Elucian consumer units are constructed using non combustible and robust metal housings. They ensure compliance against the third amendment which was added to the BS 7671 wiring regulations in 2015 requiring consumer units in domestic premises to have a non-combustible enclosure.



Mains Switch Tail Clamp

Each consumer and mini unit come supplied and prefitted with a Mains Switch Tail Clamp for added stress relief to ensure the Mains Tail terminations do not come loose and to help fix the Mains Switch Isolator more securely to prevent any rocking or movement. The Mains Switch Tail Clamp will accept a maximum of 25mm² double insulated tails.

Retrofit Locking Device

Can be installed on the left or right of the enclosure.





Variable Knockout Sizes

The units all come supplied with a wide range of 40mm, 32mm, 25mm and 20mm knockouts making each board universally adaptable for all installation and cable types



Rear Knockouts

The units also come supplied with rear knockouts to provide ample cabling capacity for any installation type. Each knockout will be supplied with a 0.5M grommet strip to allow a smooth entry into the board, protecting cable from any potential sharp edges.





Shrouded Live Bus Bar

Our live bus bar comes supplied with the shroud prefitted for extra safety and convenience. Our Neutral and Earth Bus Bars are supplied with backed off screws allowing a faster installation



Accessories Pack

Contains a Sticker Set for clear circuit identification and caution warnings, Grommet Knockout Strips, 2 x Blank Modules, a detailed instruction sheet for all recommended installation details and a Live Bus Bar, Cover and Caps for added insulation and installation completion.

Consumer Unit

Breakdown...

Large Space for Wiring

Each consumer unit has a large space for wiring, suitable for the increasing demands and circuit ways on a consumer unit.

Non-Combustible Enclosures

Non-combustible and robust metal housings ensure compliance against the third amendment added to the BS 7671 wiring regulations.

Earth and Neutral Bar

Each unit has its own specifically configured Earth and Neutral Bar to allow for best practice installation of each board type.

Torque Rating Label

There is a handy Torque rating label inside every consumer unit, allowing you to make all terminations with ease.

Grommet Strip

Each knockout will be supplied with a 0.5M grommet strip to allow a smooth entry into the board, protecting cable from any potential sharp edges.

Compact RCBOs

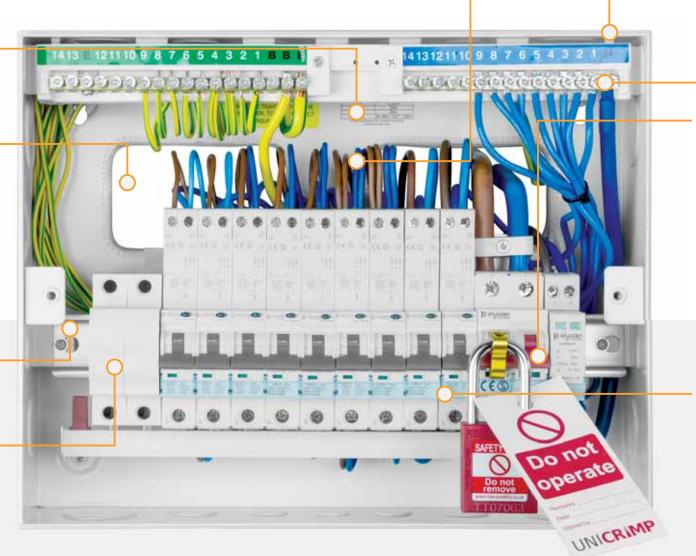
The latest design in compact RCBOs leaves more than sufficient space for cabling and terminating.

Keyway DIN Rail

A fast release Keyway DIN Rail allows for ease of installation.

MCB Style Solid Blanks

These are DIN Rail mountable and can only be removed when the cover is removed, thus providing additional safety. Other types of blanks can easily fall out or become dislodged.

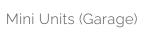


Lock Off Capabilities

Lockout devices are designed to attach to the moving part of the protective device, usually a switch toggle (rocker switch) which moves from the on to off position.

Enhanced Protection with AFDDs with integrated RCBO

The smart way to detect arc faults in your circuits







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RCD Fitted



Tail Clamp Pre-Installed

Mini Units (Garage)

GLIOK-

GUEB563RCD3 5 Way Unit with 63A 30mA RCD (3 Free Ways)
GUEB580RCD3 5 Way Unit with 80A 30mA RCD (3 Free Ways)

Supplied with complete complement of earth and neutral terminals along with marking labels, busbar and instruction leaflet.

Warranty (Years): 10 Warranty - Devices (Years): 3 Standards: BS EN 61439-3 BS EN 61008-1 Dimensions (mm): 168 (W) x 260 (H) x 115 (D)







Switch-Disconnector Units

CUEB8MS6 8 Way Unit with 100A Mains Switch (6 Free Ways) CUEB10MS8 10 Way Unit with 100A Mains Switch (8 Free Ways) CUEB12MS10 12 Way Unit with 100A Mains Switch (10 Free Ways) CUEB14MS12 14 Way Unit with 100A Mains Switch (12 Free Ways) CUEB16MS14 16 Way Unit with 100A Mains Switch (14 Free Ways) CUEB18MS16 18 Way Unit with 100A Mains Switch (16 Free Ways) CUEB22MS20 22 Way Unit with 100A Mains Switch (20 Free Ways)

Warranty (Years): 10

Warranty - Devices (Years): 3

Standards: BS EN 61439-3 BS EN 60947-3

Dimensions (mm): 8 Way: 222 (W) x 260 (H) x 115 (D) 10 Way: 258 (W) x 260 (H) x 115 (D) 12 Way: 294 (W) x 260 (H) x 115 (D) 14 Way: 330 (W) x 260 (H) x 115 (D) 16 Way: 366 (W) x 260 (H) x 115 (D)

18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)





Straight Mains Board



Mains



Tail Clamp Pre-Installed



SPD Fitted

Supplied with complete complement of earth and neutral terminals along with marking labels, busbar and instruction leaflet.

Switch-Disconnector Units Including Surge Protection

CUEB10MSSP6 10 Way Unit with 100A Mains Switch & SPD (6 Free Ways) CUEB12MSSP8 12 Way Unit with 100A Mains Switch & SPD (8 Free Ways) CUEB14MSSP10 14 Way Unit with 100A Mains Switch & SPD (10 Free Ways) CUEB16MSSP12 16 Way Unit with 100A Mains Switch & SPD (12 Free Ways) CUEB18MSSP15 18 Way Unit with 100A Mains Switch & SPD (15 Free Ways) CUEB22MSSP18 22 Way Unit with 100A Mains Switch & SPD (18 Free Ways)

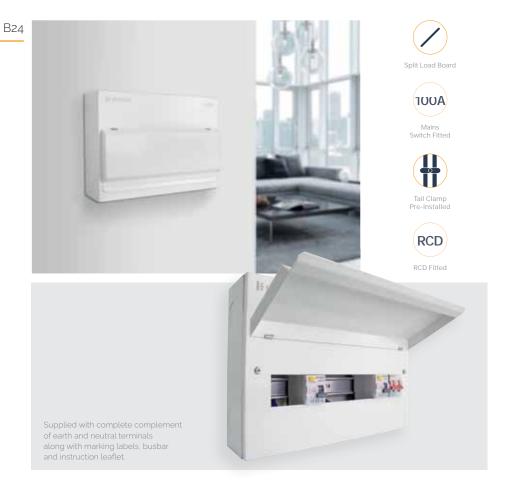
Warranty (Years): 10 Warranty - Devices (Years): 3

Standards: BS EN 61439-3 BS EN 60947-3 BS EN 61643-1-11

Dimensions (mm): 10 Way: 258 (W) x 260 (H) x 115 (D) 12 Way: 294 (W) x 260 (H) x 115 (D) 14 Way: 330 (W) x 260 (H) x 115 (D)

16 Way: 366 (W) x 260 (H) x 115 (D) 18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)





Split Load Units

CUEB14MSRCD8 CUEB16MSRCD10 CUEB18MSRCD12 CUEB22MSRCD16 14 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD (4+4 Free Ways) 16 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD (5+5 Free Ways) 18 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD (6+6 Free Ways) 22 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD (8+8 Free Ways)

Warranty (Years): 10

Warranty - Devices (Years): 3

Standards: BS EN 61439-3 BS EN 60947-3 BS EN 61008-1

Dimensions (mm): 14 Way: 330 (W) x 260 (H) x 115 (D) 16 Way: 366 (W) x 260 (H) x 115 (D) 18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)





Split Load Board With Surge Protection



Mains Switch Fitted



Tail Clamp Pre-Installed



RCD Fitted



SPD Fitted

Split Load Units Including Surge Protection

CUEB14MSRCDSP6 CUEB16MSRCDSP8 CUEB18MSRCDSP10 CUEB22MSRCDSP14 14 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD + 2 Pole SPD (3+3 Free Ways) 16 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD + 2 Pole SPD (4+4 Free Ways) 18 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD + 2 Pole SPD (5+5 Free Ways) 22 Way Unit with 100A Mains Switch + 2 x 80A 30mA RCD + 2 Pole SPD (7+7 Free Ways)

Warranty (Years): 10

Warranty - Devices (Years): 3

Standards: BS EN 61439-3 BS EN 60947-3 BS EN 61008-1 BS EN 61643-1-11

Dimensions (mm): 14 Way: 330 (W) x 260 (H) x 115 (D) 16 Way: 366 (W) x 260 (H) x 115 (D) 18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)





Combination Units (High Integrity)

CUEHIB14MSRCD8 14 Way Unit with 100A Mains Switch + 2 x 80A RCD (8 Free Ways) CUEHIB16MSRCD10 16 Way Unit with 100A Mains Switch + 2 x 80A RCD (10 Free Ways) CUEHIB18MSRCD12 18 Way Unit with 100A Mains Switch + 2 x 80A RCD (12 Free Ways) CUEHIB22MSRCD16 22 Way Unit with 100A Mains Switch + 2 x 80A RCD (16 Free Ways)

Warranty (Years): 10

Warranty - Devices (Years): 3

Standards: BS EN 61439-3 BS EN 60947-3 BS EN 61008-1

Dimensions (mm): 14 Way: 330 (W) x 260 (H) x 115 (D) 16 Way: 366 (W) x 260 (H) x 115 (D) 18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)



Combination Units (High Integrity)

elucian



High Integrity



Mains



Tail Clamp Pre-Installed



RCD Fitted



SPD Fitted

Combination Units (High Integrity) Including Surge Protection

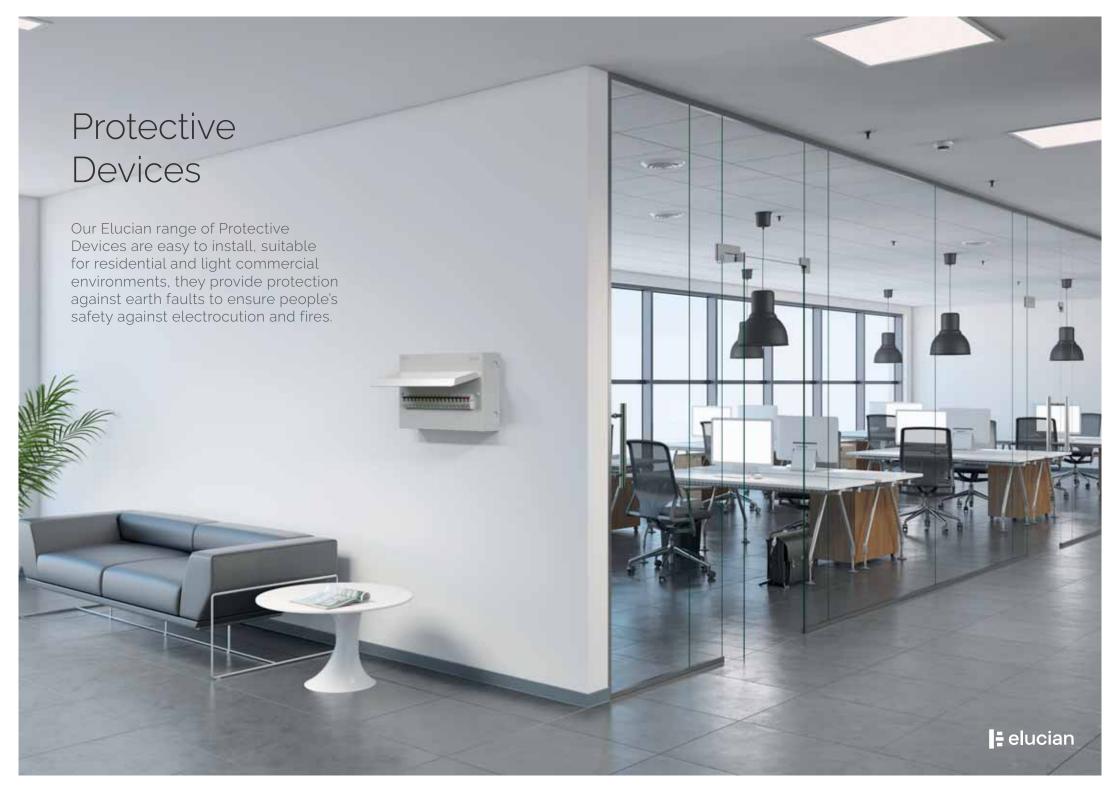
14 Way Unit with 100A Mains Switch + 2 x 80A RCD & SPD (6 Free Ways) CUEHIB14MSRCDSP6 CUEHIB16MSRCDSP8 16 Way Unit with 100A Mains Switch + 2 x 80A RCD & SPD (8 Free Ways) 18 Way Unit with 100A Mains Switch + 2 x 80A RCD & SPD (10 Free Ways) CUEHIB18MSRCDSP10 CUEHIB22MSRCDSP14 22 Way Unit with 100A Mains Switch + 2 x 80A RCD & SPD (14 Free Ways)

Warranty (Years): 10

Warranty - Devices (Years): 3

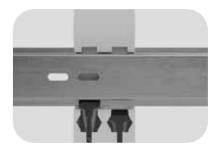
Standards: BS EN 61439-3 BS EN 60947-3 BS EN 61008-1 BS EN 61643-1-11

Dimensions (mm): 14 Way: 330 (W) x 260 (H) x 115 (D) 16 Way: 366 (W) x 260 (H) x 115 (D) 18 Way: 402 (W) x 260 (H) x 115 (D) 22 Way: 474 (W) x 260 (H) x 115 (D)



Features &

Benefits...



Clip in Devices

The Elucian Protective Devices simply click onto the DIN Rail and can be secured with this locking mechanism.

This means work can be carried out quicker and without dealing with tight spaces.



Lock Off Capabilities

Lockout devices (available at Unicrimp®) are designed to attach to the moving part of the protective device, usually a switch toggle (rocker switch) which moves from the on to off position. This ensures the switch cannot be switched back on while work is being carried out.



Clear Indication

Each protective device has clear and visible trip indication along with clear product information which is easily visible whatever the switch position.



3 Year Product Warranty

We take pride in leading the market and our 3 year warranty offers the best peace of mind available as standard today. It reflects the confidence we have in our products and the benefit of years of continuous engineering improvement.









B curve

MCB's Single Pole B Curve

CU1MCB6B 6A B Curve True 6kA MCB 10A B Curve True 6kA MCB CU1MCB10B 16A B Curve True 6kA MCB CU1MCB16B CU1MCB20B 20A B Curve True 6kA MCB CU1MCB25B 25A B Curve True 6kA MCB CU1MCB32B 32A B Curve True 6kA MCB CU1MCB40B 40A B Curve True 6kA MCB CU1MCB50B 50A B Curve True 6kA MCB CU1MCB63B 63A B Curve True 6kA MCB



C curve

MCB's Single Pole C Curve

CU1MCB6C 6A C Curve True 6kA MCB CU1MCB10C 10A C Curve True 6kA MCB CU1MCB16C 16A C Curve True 6kA MCB CU1MCB20C 20A C Curve True 6kA MCB CU1MCB25C 25A C Curve True 6kA MCB CU1MCB32C 32A C Curve True 6kA MCB CU1MCB40C 40A C Curve True 6kA MCB CU1MCB50C 50A C Curve True 6kA MCB CU1MCB63C 63A C Curve True 6kA MCB



Single Pole

6kA

True 6ka



Large Terminal

Warranty (Years): 3 Standards: BS EN 60898-1 Dimensions (mm): 17.8 (W) x 85.3 (H) x 76.6 (D)

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B curve

RCBO's Type A Single Pole B Curve

CU1RCBO6B 6A 30mA B Curve True 6kA RCBO CU1RCBO10B 10A 30mA B Curve True 6kA RCBO CU1RCBO16B 16A 30mA B Curve True 6kA RCBO 20A 30mA B Curve True 6kA RCBO CU1RCBO20B CU1RCBO32B 32A 30mA B Curve True 6kA RCBO CU1RCBO40B 40A 30mA B Curve True 6kA RCBO



C curve

RCBO's Type A Single Pole C Curve

CU1RCBO6C 6A 30mA C Curve True 6kA RCBO CU1RCBO10C 10A 30mA C Curve True 6kA RCBO CU1RCBO16C 16A 30mA C Curve True 6kA RCBO CU1RCBO20C 20A 30mA C Curve True 6kA RCBO CU1RCBO32C 32A 30mA C Curve True 6kA RCBO CU1RCBO40C 40A 30mA C Curve True 6kA RCBO



30mA

Trip Current

Type A

Large Terminal

Capacity (mm²)



B curve

RCBO's Type A 2 Module Double Pole B Curve

CU2RCBO45B 45A 30mA B Curve True 6kA RCBO CU2RCBO50B 50A 30mA B Curve True 6kA RCBO CU2RCBO63B 63A 30mA B Curve True 6kA RCBO



RCBO's Type A 2 Module Double Pole C Curve

CU2RCBO45C 45A 30mA C Curve True 6kA RCBO CU2RCBO50C 50A 30mA C Curve True 6kA RCBO CU2RCBO63C 63A 30mA C Curve True 6kA RCBO







Capacity (mm²)



True 6ka



Single Pole + Neutral

Warranty (Years): 3 Standards: BS EN 61009-1 Neutral Flylead (mm): 450 Dimensions (mm): 17.8 (W) x 91.8 (H) x 76.6 (D)



Standards: BS EN 61009-1 Dimensions (mm): 35.6 (W) x 84 (H) x 76.6 (D) True 6ka

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RCD's

CU2RCD63A 63A 30mA 2 Pole RCD CU2RCD80A 80A 30mA 2 Pole RCD CU2RCD100A 100A 30mA 2 Pole RCD Time Delay RCD's

CU2RCDTD63A 63A 100mA 2 Pole Time Delay RCD CU2RCDTD80A 80A 100mA 2 Pole Time Delay RCD CU2RCDTD100A 100A 100mA 2 Pole Time Delay RCD







Type S (Time Delay)



Large Terminal Capacity (mm²)

Warranty (Years): 3 Standards: BS EN 61008-1 Dimensions (mm): 35.5 (W) \times 85.2 (H) \times 73 (D) 100: 35.6 (W) \times 87 (H) \times 74 (D)



SPD

CU1SPD275T

40kA 275Uc (V~) 2 Pole Type 2 SPD with Tails











Protection Level (Up)

Response Time Large Terminal Max Discharge Double Pole Capacity (mm²)

Current

Warranty (Years): 3 Standards: BS EN 61643-1-11

Dimensions (mm): 18 (W) x 90 (H) x 70 (D)

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B curve

AFDD RCBO's B Curve

CU1AFDD6B 6A 30mA 1P B Curve True 6kA AFDD & RCBO

CU1AFDD10B 10A 30mA 1PB Curve True 6kA

AFDD & RCBO

CU1AFDD16B 16A 30mA 1P B Curve True 6kA AFDD & RCBO

CU1AFDD20B 20A 30mA 1P B Curve True 6kA

AFDD & RCBO

CU1AFDD32B 32A 30mA 1P B Curve True 6kA

AFDD & RCBO

CU1AFDD40B 40A 30mA 1P B Curve True 6kA AFDD & RCBO



C curve

AFDD RCBO's C Curve

6A 30mA 1P C Curve True 6kA CU1AFDD6C AFDD & RCBO

CU1AFDD10C 10A 30mA 1P C Curve True 6kA

AFDD & RCBO

CU1AFDD16C 16A 30mA 1P C Curve True 6kA AFDD & RCBO

CU1AFDD20C 20A 30mA 1P C Curve True 6kA

AFDD & RCBO

CU1AFDD32C 32A 30mA 1P C Curve True 6kA

AFDD & RCBO

CU1AFDD40C 40A 30mA 1P C Curve True 6kA

AFDD & RCBO











Large Terminal True 6ka Capacity (mm²)

Neutral

Warranty (Years): 3

Standards: BS EN 61009-1 BS EN 62606 Dimensions (mm): 17.8 (W) x 118 (H) x 76.6 (D)





2 Pole 20A Contactors (1 Module)

MC20202 2P 20A Contactor, 2 x 'NC' Contacts 2P 20A Contactor, 1 x 'NO', 1 x 'NC' Contacts MC20220 2P 20A Contactor, 2 x 'NO' Contacts

4 Pole 25A Contactors (2 Module)

MC25404 4P 25A Contactor, 4 x 'NC' Contacts MC25422 4P 25A Contactor, 2 x 'NO', 2 x 'NC' Contacts MC25431 4P 25A Contactor, 3 x 'NO', 1 x 'NC' Contacts MC25440 4P 25A Contactor, 4 x 'NO' Contacts



4 Pole 40A Contactors (3 Module)

MC40404 4P 40A Contactor, 4 x 'NC' Contacts MC40422 4P 40A Contactor, 2 x 'NO', 2 x 'NC' Contacts MC40431 4P 40A Contactor, 3 x 'NO', 1 x 'NC' Contacts MC40440 4P 40A Contactor, 4 x 'NO' Contacts

4 Pole 63A Contactors (3 Module)

MC63404 4P 63A Contactor, 4 x 'NC' Contacts MC63422 4P 63A Contactor, 2 x 'NO', 2 x 'NC' Contacts MC63431 4P 63A Contactor, 3 x 'NO', 1 x 'NC' Contacts MC63440 4P 63A Contactor, 4 x 'NO' Contacts

Warranty (Years): 3

Standards: BS EN 60947-4-1 BS EN 61095

Dimensions (mm): 1 Module: 18 (W) x 106 (H) x 68 (D) 2 Module: 36 (W) x 106 (H) x 68 (D) 3 Module: 54 (W) x 110 (H) x 68 (D)

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Mains Switch-Disconnector

CU2MS100 100A 2 Pole Disconnector-Switch



Rated

Large Terminal Capacity (mm²)

Double Pole

Warranty (Years): 3 Standards: BS EN 60947-3 Dimensions (mm): 35.9 (W) x 85.3 (H) x 76.6 (D)



Blank Modules CU1BLANK

Single Way Din Rail Blank Module

Warranty (Years): 3 Dimensions (mm): 18 (W) \times 81 (H) \times 70 (D)

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Fused Main Switch

DB700 80A Fused Main Switch (80A HRC Fuse Fitted)
DB701 80A Fused Main Switch (80A HRC Fuse Fitted) - Lockable

DB750 100A Fused Main Switch (80A HRC Fuse Fitted)

DB751 100A Fused Main Switch (80A HRC Fuse Fitted) - Lockable

80A

HRC fuse supplied

Standards: BS 60947-03

Cable Size (mm²): 700 701: 25 & 16 750 751: 35 & 25

Dimensions (mm): 700 701: 127.5 (W) x 53.5 (D) x 80.5 (H) 750 751: 133 (W) x 60 (D) x 101 (H)



Fused Main Switch Accessories

DB790 Metal Enclosure for Fused Main Switch (DB700/701) Suitable for DB700/701 80A fused main switch

DB791 Metal Enclosure for Fused Main Switch (DB750/751) Suitable for DB701/751 100A fused main switch

DB981 Elongated Cable Shroud (Packaged Individually)
Enables surface and rear entry cable access
Suitable for use with the Fused Main Switch range (DB700, DB701, DB750 & DB751)

Cable Size (mm²): 790: 25 & 16 791 981: 35

Dimensions (mm): 790 791: 168 (W) x 94.5 (D) x 133 (H) 981: 80 (W) x 90 (D) x 45 (H)

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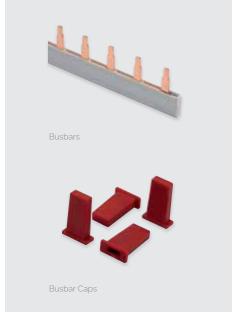


Terminal E	Bars	
CUTB4	4 Way Terminal Bar	CUTB17
CUTB6	6 Way Terminal Bar	CUTB18
CUTB7	7 Way Terminal Bar	CUTB19

18 Way Terminal Bar 19 Way Terminal Bar CUTB19 20 Way Terminal Bar CUTB8 8 Way Terminal Bar CUTB20 CUTB9 9 Way Terminal Bar CUTB22 22 Way Terminal Bar 10 Way Terminal Bar CUTB23 23 Way Terminal Bar CUTB10 CUTB12 12 Way Terminal Bar CUTB26 26 Way Terminal Bar

CUTB15 15 Way Terminal Bar CUTBSC Terminal Bar Support Clip & Scews (PK5) CUTB16 16 Way Terminal Bar CUTBSCSL Split Load Terminal Bar Support Clip & Screws (PK 5)

17 Way Terminal Bar



Busbar & Cover Sets

CUBUS3 3 Way Busbar & Cover Set CUBUS4 4 Way Busbar & Cover Set CUBUS5 5 Way Busbar & Cover Set CUBUS6 6 Way Busbar & Cover Set CUBUS7 7 Way Busbar & Cover Set CUBUS8 8 Way Busbar & Cover Set CUBUS12 12 Way Busbar & Cover Set CUBUS20 20 Way Busbar & Cover Set CUCAP Busbar Caps (PK 10)



DIN Rails CUDR10 10 Way DIN Rail CUDR12 12 Way DIN Rail CUDR14 14 Way DIN Rail CUDR16 16 Way DIN Rail CUDR18 18 Way DIN Rail CUDR22 22 Way DIN Rail

*All accessories are for use on Elucian Consumer Units only and are not suitable for Consumer Unit conversions.

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SPD Cartridge CU1SPDC275 275V~ 40kA SPD Cartridge



Retrofit Locking Device CUELOCK Retrofit Locking Device

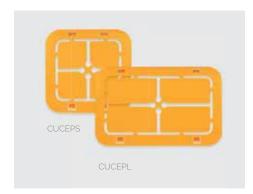
Can be installed on the left or right of the enclosure. Padlock not supplied



Link Cables CUCNL210 Neutral Link Cable (210mm) Neutral Link Cable (285mm) CUCNL285



CUCNL325 Neutral Link Cable (325mm) CUCLL Combined Live Link Cable (285mm & 355mm)



Cable Entry Plate

CUCEPS Knockout Cable Entry Plate - Small (PK 5) CUCEPL Knockout Cable Entry Plate - Large (PK 5)



Pattress Mount

CUEBPM Pattress Mount





Grommet Strip CUGS1 500mm Grommet Strip (PK 3)



Mains Cable Clamp Components CUCLAMP Mains Cable Clamp & Screw



Mains Cable Clamp Components CUPLATE Mains Cable Clamp Plate



Adhesive Labels CULAB1 Set of Adhesive Labels



Flush Lid CUEB18FL Flush Lid (18 Way Consumer Units)

*All accessories are for use on Elucian Consumer Units only and are not suitable for Consumer Unit conversions.



UNI**CRIMP**

The Unicrimp® range includes cable ties, crimp terminals, PVC tape, copper tube terminals, cable clips, and brass and nylon glands - providing everything required to harness cable between the consumer unit and the

For more information check out the latest Unicrimp® Electrical accessories catalogue or visit unicrimp.com







Grommets

Lock Off Kit

Basic and contractor Lock Off Kits available.

Nylon & Brass Glands

Nylon available in black, grey, red & white in sizes ranging from 12mm-63mm. 32mm & 40mm brass meter tail glands with plug.

Standard and quick fit grommets

available in 20mm and 25mm

Bluetooth DIN Rail Time Switches

NFC DIN Rail Time Switches

DIN Rail Time Switches

All Sangamo's DIN Rail mountable time switches are designed for 35mm "Top Hat" rail. Switches come in 1, 2 or 4 modules, each module is 17.5mm wide, which fits the required width in the DIN enclosure.

Using the 25195 USB Hub and Easy Vue software or 25196 USB Hub with bluetooth and connect app programs can be transferred to a 25193 data key and then to one or multiple switches. 1 module switches do not require a Data Key as the fascia can be removed and slotted into the Hub directly.

SANGAMO

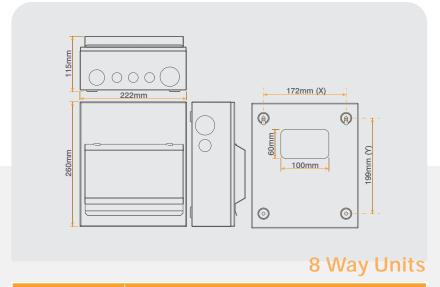








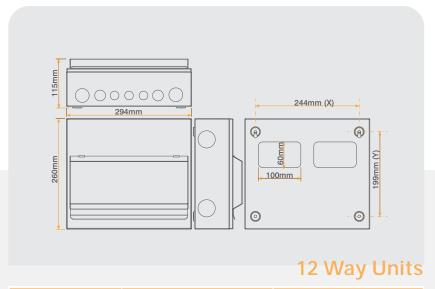
Board Product Code	GUEB563RCD3	GUEB580RCD3			
Ingress Protection		20			
IK Rating	IK	05			
Operational Temperature (°C)	-5 tc	ı +40			
Tail Clamp Capacity (mm²)	2	5			
Tail Clamp Torque (Nm)	1	.5			
CPC & N Bars Capacity (mm²)					
CPC & N Bars Torque (Nm)					
Switch-Disconnector Fitted	-	-			
RCD Fitted		1 x 80A 30mA RCD (CU2RCD80A)			
SPD Fitted	The second secon				
Free Ways	3				
Nett Weight (kg)	3.168	3.168			



Board Product Code	
Ingress Protection	IP20
IK Rating	IKOS
Operational Temperature (°C)	-5 to +40
Tail Clamp Capacity (mm²)	25
Tail Clamp Torque (Nm)	1.5
CPC & N Bars Capacity (mm²)	16
CPC & N Bars Torque (Nm)	2
Switch-Disconnector Fitted	1 x 100A (CU2MS100)
RCD Fitted	-
SPD Fitted	-
Free Ways	6
Nett Weight (kg)	3.3

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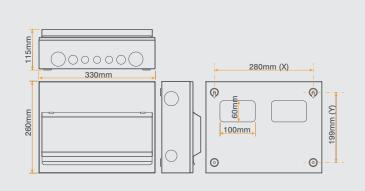
Board Product Code	CUEB10MS8	CUEB10MSSP6			
	IP20				
IK Rating	IKI	05			
Operational Temperature (°C)	-5 to	ı +40			
Tail Clamp Capacity (mm²)	2	5			
Tail Clamp Torque (Nm)	15				
CPC & N Bars Capacity (mm²)	16				
CPC & N Bars Torque (Nm)	2				
Switch-Disconnector Fitted	1 x 100A (CU2MS100)				
RCD Fitted	and the second second				
SPD Fitted	1 x 40kA SPD (CU2SPD275)				
Free Ways	8 6				
Nett Weight (kg)	3.6	3.25			



	CUEB12MS10	CUEB12MSSP8				
IK Rating						
Operational Temperature (°C)						
	2					
	1.5					
CPC & N Bars Capacity (mm²)						
CPC & N Bars Torque (Nm)	2					
Switch-Disconnector Fitted	1 x 100A (CU2MS100)					
RCD Fitted	+					
SPD Fitted	1 x 40kA SPD (CU2SPD275)					
Free Ways						
Nett Weight (kg)	3.9	4.16				

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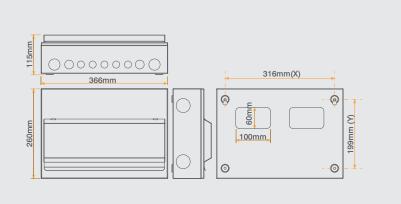




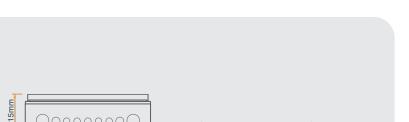
Board Product Code	CUEB14MS12	CUEB14MSRCD8	CUEB14MSRCDSP6	Board Product Code	CUEHIB14MSRCD8		CUEHIB14MSRCDSP6
Ingress Protection	IP20	IP20	IP20		IP20		IP20
IK Rating	IK05	IK05	IKO5	IK Rating	IK05		IK05
Operational Temperature (°C)	-5 to +40	-5 to +40	-5 to +40	Operational Temperature (°C)	-5 to +40		-5 to +40
Tail Clamp Capacity (mm²)	25	25	25	Tail Clamp Capacity (mm²)	25	25	25
Tail Clamp Torque (Nm)	1.5	1.5	1.5		1.5		1.5
CPC & N Bars Capacity (mm²)	16	16	16	CPC & N Bars Capacity (mm²)	16	16	16
CPC & N Bars Torque (Nm)	2	2	2	CPC & N Bars Torque (Nm)	2	2	2
Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)
RCD Fitted	-	2 x 80A 30mA RCD (CU2RCD80A)	2 x 80A 30mA RCD (CU2RCD80A)	RCD Fitted	2 x 80A 30mA RCD (CU2RCD80A)	-	2 x 80A 30mA RCD (CU2RCD80A)
SPD Fitted	-	-	1 x 40kA SPD (CU2SPD275)	SPD Fitted	-		1 x 40kA SPD (CU2SPD275)
Free Ways	12	8 (4+4)	6 (3+3)	Free Ways	8		6
Nett Weight (kg)	3.844	4.634	5.4	Nett Weight (kg)	5.25	3.8	5.46



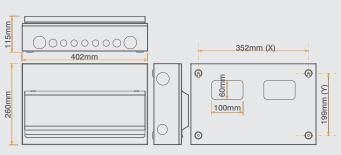




Board Product Code	CUEB16MS14	CUEB16MSRCD10	CUEB16MSRCDSP8	Board Product Code	CUEHIB16MSRCD10	CUEB16MSSP12	CUEHIB16MSRCDSP8
Ingress Protection	IP20	IP20	IP20	Ingress Protection	IP20	IP20	IP20
IK Rating	IKO5	IKO5	IK05	IK Rating	IKO5	IKO5	IKO5
Operational Temperature (°C)		-5 to +40	-5 to +40	Operational Temperature (°C)	-5 to +40		-5 to +40
Tail Clamp Capacity (mm²)	25	25	25	Tail Clamp Capacity (mm²)	25	25	25
Tail Clamp Torque (Nm)	1.5	1.5	1.5	Tail Clamp Torque (Nm)	1.5	1.5	1.5
CPC & N Bars Capacity (mm²)	16	16	16	CPC & N Bars Capacity (mm²)	16	16	16
CPC & N Bars Torque (Nm)	2	2	2	CPC & N Bars Torque (Nm)	2	2	2
Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)
RCD Fitted		2 x 80A 30mA RCD (CU2RCD80A)	2 x 80A 30mA RCD (CU2RCD80A)	RCD Fitted	2 x 80A 30mA RCD (CU2RCD80A)		2 x 80A 30mA RCD (CU2RCD80A)
SPD Fitted	-	-	1 x 40kA SPD (CU2SPD275)	SPD Fitted	-		1 x 40kA SPD (CU2SPD275)
Free Ways	14	10 (5+5)	8 (4+4)	Free Ways	10		8
Nett Weight (kg)	4.5	5.93	5.55	Nett Weight (kg)	5.35	4.76	5.61

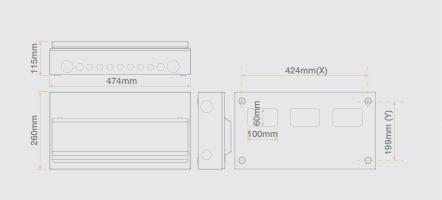






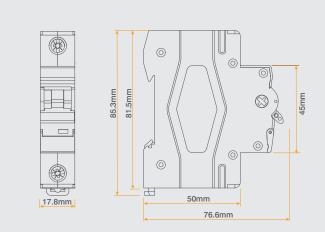
Board Product Code		CUEB18MSRCD12	CUEB18MSRCDSP10	Board Product Code	CUEHIB18MSRCD12		CUEHIB18MSRCDSP10
Ingress Protection	IP20	IP20	IP20	Ingress Protection	IP20	IP20	IP20
IK Rating	IK05	IK05	IK05	IK Rating	IK05	IKO5	IK05
Operational Temperature (°C)	-5 to +40	-5 to +40	-5 to +40	Operational Temperature (°C)	-5 to +40	-5 to +40	-5 to +40
Tail Clamp Capacity (mm²)	25	25	25	Tail Clamp Capacity (mm²)	25		25
Tail Clamp Torque (Nm)	1.2Nm Max	1.2Nm Max	1.2Nm Max	Tail Clamp Torque (Nm)	1.2Nm Max	1.5	1.5
CPC & N Bars Capacity (mm²)	16	16	16	CPC & N Bars Capacity (mm²)	16		16
CPC & N Bars Torque (Nm)	2	2	2	CPC & N Bars Torque (Nm)	2		2
Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	Switch-Disconnector Fitted	1 x 100A (CU2MS100)		1 x 100A (CU2MS100)
RCD Fitted	-	2 x 80A 30mA RCD (CU2RCD80A)	2 x 80A 30mA RCD (CU2RCD80A)	RCD Fitted	2 x 80A 30mA RCD (CU2RCD80A)		2 x 80A 30mA RCD (CU2RCD80A)
SPD Fitted	-	-	1 x 40kA SPD (CU2SPD275)	SPD Fitted	-		1 x 40kA SPD (CU2SPD275)
Free Ways	16	12 (6+6)	10 (5+5)	Free Ways	12		10
Nett Weight (kg)	4.7	5.5	5.55	Nett Weight (kg)	5.95		5.76





Board Product Code	CUEB22MS20	CUEB22MSRCD16	CUEB22MSRCDSP14	Board Product Code	CUEHIB22MSRCD16		CUEHIB22MSRCDSP14
Ingress Protection	IP20	IP20	IP20	Ingress Protection	IP20	IP20	IP20
IK Rating	IKO5	IKO5	IK05	IK Rating	IKO5	IKO5	IK05
Operational Temperature (°C)	-5 to +40	-5 to +40	-5 to +40	Operational Temperature (°C)	-5 to +40	-5 to +40	-5 to +40
Tail Clamp Capacity (mm²)	25	25	25	Tail Clamp Capacity (mm²)	25		25
Tail Clamp Torque (Nm)	1.5	1.5	1.5	Tail Clamp Torque (Nm)	1.5		1.5
CPC & N Bars Capacity (mm²)	16	16	16	CPC & N Bars Capacity (mm²)	16		16
CPC & N Bars Torque (Nm)	2	2	2	CPC & N Bars Torque (Nm)	2		2
Switch-Disconnector Fitted	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	1 x 100A (CU2MS100)	Switch-Disconnector Fitted	1 x 100A (CU2MS100)		1 x 100A (CU2MS100)
RCD Fitted	-	2 x 80A 30mA RCD (CU2RCD80A)	2 x 80A 30mA RCD (CU2RCD80A)	RCD Fitted	2 x 80A 30mA RCD (CU2RCD80A)		2 x 80A 30mA RCD (CU2RCD80A)
SPD Fitted	-	-	1 x 40kA SPD (CU2SPD275)	SPD Fitted	-		1 x 40kA SPD (CU2SPD275)
Free Ways	20	16 8+8)	14 (7+7)	Free Ways	16		14
Nett Weight (kg)	5.8	6.2	6.98	Nett Weight (kg)	6.6		6.46

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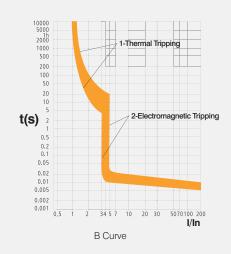


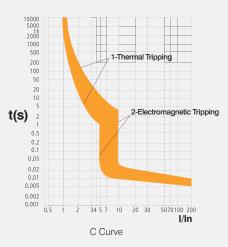


MCB's

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		• 5	-	

	B Curve	C Curve
Rated Operational Voltage (Ue)	230/400 50/60	230/400 50/60
Maximum Rated Current (In)		6A to 63A
Thermal Operating Limit		(1.13-1.45) x ln
Rated Breaking Capacity (Ics)		6
Number Of Poles		1
Insulation Voltage (UI)	500	500
Impulse Withstand Voltage (Uimp)	4000	4000
Endurance Operations	Mechanical: 20000 Electrical: 8000	Mechanical: 20000 Electrical: 8000
Trip Type		Thermal/Magnetic Release
Magnetic Operating Characteristics		(5-10) x ln
Device Terminal Type	Screwed Lug & Pin	Screwed Lug & Pin
Terminal Capacity (mm²)	6-25A - 16 Flexible or 25 Rigid 32-63A - 25 Flexible or 35 Rigid	6-25A - 16 Flexible or 25 Rigid 32-63A - 25 Flexible or 35 Rigid
Maximum Torque (Nm)		2
Operational Temperature (°C)		-5 to +40

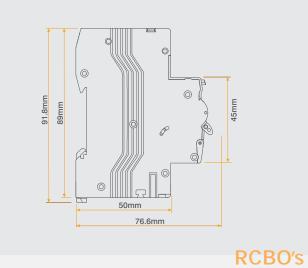






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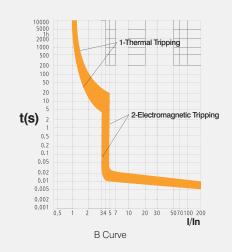
17.8mm

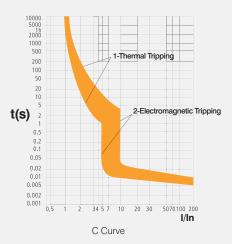


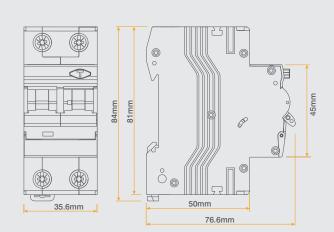


Breaking Curves

	B Curve & C Curve
Rated Operational Voltage (Ue)	240 50/60
	6A to 40A
Number Of Poles	1P + Unswitched Neutral
Neutral Tail Length	450
Circuit Protection	Earth fault, overcurrent & short-circuit
Device Terminal Type	Screwed Lug & Pin
Input Terminal Capacity (mm²)	25 Flexible / 32 Rigid
Output Terminal Capacity (mm²)	16 Flexible / 25 Rigid
	Input: 2 Ouput: 1.2
RCD Type	A
Residual Current Making & Breaking Capacity (Im)	500
	30
Residual Non-operating Current (I∆n)	0.5
Impulse Withstand Voltage (Uimp)	4000
	Ground Fault: Electronic/Electromagnetic Over Current: Thermal/Magnetic
Endurance Operations	Mechnical: 20000 Electrical: 5000
Operational Temperature (°C)	-25 to +40





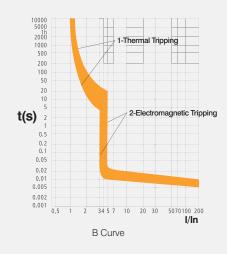


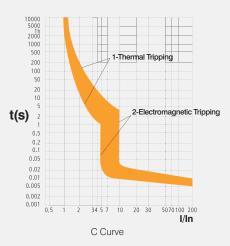


2P RCBO's

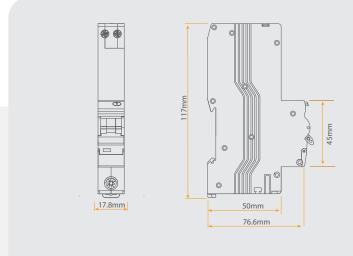
	B Curve & C Curve
Rated Operational Voltage (Ue)	230 50/60
	45A to 63A
Number Of Poles	2
Circuit Protection	Earth fault, overcurrent & short-circuit
Device Terminal Type	Screwed Lug & Pin
	10 Flexible / 16 Rigid 63A: 16 Flexible / 25 Rigid
	10 Flexible ∕ 16 Rigid 63A: 16 Flexible ∕ 25 Rigid
Maximum Torque (Nm)	Input: 2 Ouput: 2
RCD Type	А
Residual Current Making & Breaking Capacity (Im)	500
Tripping Current (mA)	30
Residual Non-operating Current (I∆n)	0.5
Impulse Withstand Voltage (Uimp)	4000
	Ground Fault: Electronic Over Current: Thermal/Magnetic
Endurance Operations	Mechnical: 10000 Electrical: 4000
Operational Temperature (°C)	-25 to +40







B66

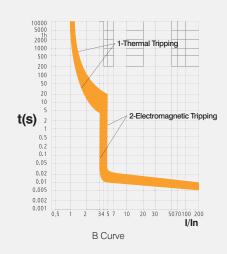


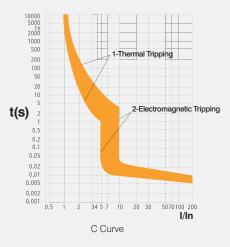


Breaking Curves

AFDD's

	B Curve & C Curve
Rated Operational Voltage (Ue)	240 50/60Hz
	6A to 40A
Number Of Poles	1P + Switched Neutral
	450
	AFDD: Series Arc Fault, Parallel Arc Fault, Over Voltage Fault, Self-Test Fault, No fault RCBO: Earth fault, overcurrent & short-circuit
Device Terminal Type	Screwed Lug & Pin
	25 Flexible ∕ 32 Rigid
	16 Flexible ∕ 25 Rigid
	Input: 2.0 Ouput: 1.2
RCD Type	А
Residual Current Making & Breaking Capacity (Im)	500
Tripping Current (mA)	30
Residual Non-operating Current (IΔn)	0.03
Impulse Withstand Voltage (Uimp)	4000
Тгір Туре	Ground Fault: Electronic Over Current: Thermal/Magnetic
Endurance Operations	Mechnical: 6000 Electrical: 4000
Operational Temperature (°C)	-25 to +40





63A & 80A RCD's

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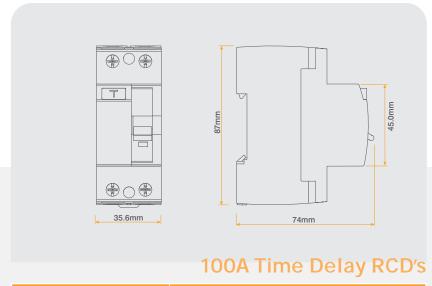
Rated Operational Voltage (Ue) 230 230 Maximum Rated Current (In) 63A 80A RCD Type A A Number Of Poles 2 (1+N) 2 (1+N) Residual Current Making & Breaking Capacity (Im) 630 800 Tripping Current (mA) 30 30 Residual Non-operating Current (Δn) 0.5 0.5 Impulse Withstand Voltage (Uimp) 4000 4000 Endurance Operations 2000 'ON & 1000 'OFF' Cycles 2000 'ON & 1000 'OFF' Cycles Trip Type Electro-Magnetic Release Electro-Magnetic Release Device Terminal Type Screwed Lug & Pin Screwed Lug & Pin Terminal Capacity (mm²) 16 25 Maximum Torque (Nm) 2.5 2.5



	100A 30mA
Rated Operational Voltage (Ue)	230
	100A
RCD Type	А
Number Of Poles	2 (1+N)
Residual Current Making & Breaking Capacity (Im)	1000
Residual Non-operating Current (I∆n)	
Impulse Withstand Voltage (Uimp)	
Endurance Operations	
Device Terminal Type	Screwed Lug & Pin
Terminal Capacity (mm²)	35
	2.5
Operational Temperature (°C)	-25 to +40

CLICK'

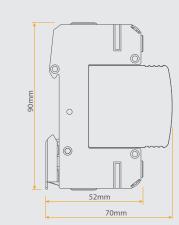
	63A 30mA	80A 30mA
Rated Operational Voltage (Ue)		230
Maximum Rated Current (In)		80A
RCD Type		S
Number Of Poles		2 (1+N)
Residual Current Making & Breaking Capacity (Im)	630	800
Tripping Current (mA)		100
Residual Non-operating Current (IΔn)		0.5
Impulse Withstand Voltage (Uimp)		4000
Endurance Operations	2000 'ON' & 1000 'OFF' Cycles	2000 'ON' & 1000 'OFF' Cycles
Тгір Туре		Electro-Magnetic Release
Device Terminal Type		Screwed Lug & Pin
Terminal Capacity (mm²)		25
Maximum Torque (Nm)		2.5
Operational Temperature (°C)		-25 to +40

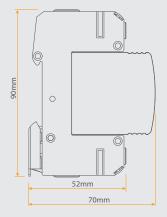


	100A 30mA
Rated Operational Voltage (Ue)	
	100A
RCD Type	s
Number Of Poles	2 (1+N)
Residual Current Making & Breaking Capacity (Im)	1000
Residual Non-operating Current (I∆n)	0.5
Impulse Withstand Voltage (Uimp)	
Endurance Operations	2000 'ON' & 1000 'OFF' Cycles
Trip Type	
Device Terminal Type	Screwed Lug & Pin
Terminal Capacity (mm²)	35
	2.5
Operational Temperature (°C)	-25 to +40

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B72 B73







SPD's

Maximum Continuous Operating Voltage (Uc)	275
SPD Type	Type 2
Number Of Poles	2
Visual Status (Green)	Normal Function
Visual Status (Red)	Cartridge Replaceable (Product Ref.CU1SPDC275)
	Screwed Lug & Pin
	L&N: 4-16; PE: 4-25
	L&N: 1.2, PE: 2
	Yes
	300
Maximum Voltage Protection Level (Up)	<1.5
	20 (L-N & N-PE)
	40 (L-N & N-PE)
Response Time (tA)	<25
Compatible Earthing Systems	TT / TN
Operational Temperature (°C)	-40 to +70

Visual Status Indicator

Technical Information

Individual cartridge indication; Green: OK; Red:





Protection Devices

Surge Protection

The Type 2, 2 Pole 40kA Surge Protection Device 275Uc surge, anything from lighting to lightning.

As well as preventing premature aging, destruction of equipment and unnecessary downtime SPDs are recommended to protect sensitive electronic equipment televisions, washing machines & LED Lighting.

Technical Data

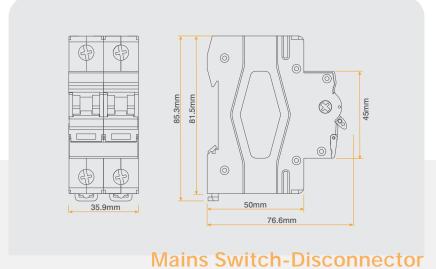
- Internal overcurrent protection 300A
- · Compatible earthing systems TT & TN

Installation and Connection

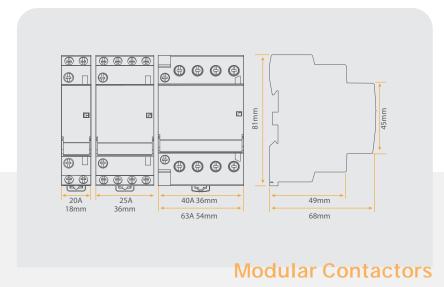
- The main protection SPDs are installed directly after the main incoming switch or RCCB.
- Protection is assured in both common and
- · Additional overcurrent protection is not required.
- The cartridges are to be removed for insulation resistance testing.



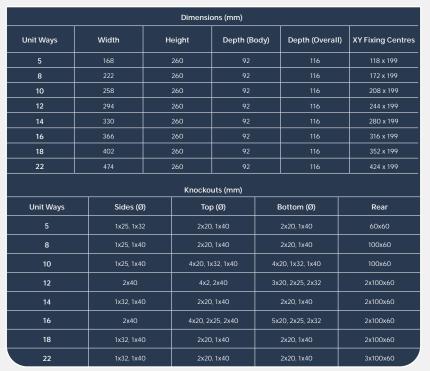




Rated Operational Voltage (Ue)	230/415
	100A
Number Of Poles	2
Endurance Operations	Mechanical: 10000 Electrical: 1500
	Screwed Lug & Pin
	35
Maximum Torque (Nm)	2.5
Utilisation Category	AC-22A
Short Circuit Withstand Current (Icw)	12 le, t=1s
Short Circuit Making Capacity (Icm)	20 le
Making & Breaking Capacity	3le,1.05Ue, COS∳ =0.65
	690
Impulse Withstand Voltage (Uimp)	6000
Operational Temperature (°C)	-25 to +40



Load Rating (A)	20	25	40	63
Rated Operational Voltage (Ue)	250	400	400	400
Endurance Mechanical Operations				
Endurance Electrical Operations				
Device Terminal Type				
Insulation Voltage (UI)				
Operational Temperature (°C)				





After fitting all outgoing devices and connecting all outgoing cables, ensure that all connections are tightened to the torque settings stated in the table below, including factory made connections which may have become losse during transit

Torque Settings

Device Type	Number Of Ways	Maximum Conductor Size	Maximum Torque (Nm)	
			Input	Output
Main Switch	2	35mm²	2.5Nm	2.5Nm
RCD	2	16mm² (63A), 25mm² (80A), 35mm² (100A)	2.5Nm	2.5Nm
SPD	2	L&N: 4-16mm², PE: 4-25mm²	L&N: 1.2Nm;	PE: 2Nm
		16mm² Flexible or 25mm² Rigid (Up to 25A)		
МСВ	1 25mm² Fle	25mm² Flexible or 35mm² Rigid (32A - 63A)	2.0Nm	2.0Nm
		25mm² Flexible / 32mm² Rigid (Input)		
1P + N RCBO's	1	16mm² Flexible / 25mm² Rigid (Output)	2.0Nm 1.2Nr	
		45A & 50A: 10mm2 Flexible / 16mm2 Rigid (Input & Output)		
2P RCBO	2P RCBO 2	63A: 16mm2 Flexible / 25mm2 Rigid (Input & Output)	2Nm 2Nm	
Earth & No	eutral Bars	16mm²	2.0Nm	
Mains Ta	Mains Tail Clamp 25mm ² 1.2N		n	

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80A and 100A variants are supplied with a 80A Bussmann fuse as standard.

However the following fuses will fit

Fused Main Switch

Fuse Manufacturer				
Rating	Bussmann	Lawson	MEM	GE
40A	40KR85	ME40	404R	RHF40
45A	45KR85	ME45	454R	-
50A	50KR85	ME50	504R	RHF50
60A	60KR85	ME60	604R	RHF60
70A	70KR85	ME70		-
80A	80KR85	ME80	804R	RHF80
100A	100KR85	ME100		. ,