

CONTACTUM



DEFENDER

Defender Consumer Units

A comprehensive range of single phase consumer units
Compliant with BS7671 18th Edition Wiring Regulations
Tested in accordance to BS EN 61439-3

CONTACTUM

Quality by design

Established in 1936, Contactum is a proud British brand with a distinguished heritage in the electrical industry. For nearly a century, we have been a trusted name in the supply of wiring accessories, circuit protection devices, and control products across residential, commercial, and industrial sectors.

Our reputation has been built on a foundation of quality, safety, and a design-led approach, with a focus on delivering products that meet the unique demands of the UK market.

Offering the latest solution-led wiring accessories to award-winning consumer units and commercial switchgear, Contactum delivers reliable, specification-grade electrical solutions designed to meet the evolving needs of electricians, contractors, wholesalers, and specifiers.

We pride ourselves on combining performance, compliance, and visual appeal across our ranges, supported by robust technical expertise and responsive customer service.



To support our commitment to excellence, Contactum operates an ISO Integrated Management System, covering quality (ISO 9001), environmental (ISO 14001), and occupational health & safety (ISO 45001) standards. This ensures that every aspect of our operations — from product development to customer service — is underpinned by internationally recognised best practices.

Further reinforcing our dedication to sustainability and corporate responsibility, Contactum has recently been awarded a medal-level rating by Eco Vadis, a leading global assessment platform for environmental, social, and ethical performance.

This achievement highlights our continuous efforts to operate transparently, reduce environmental impact, and promote responsible business practices throughout our supply chain.

ecovadis



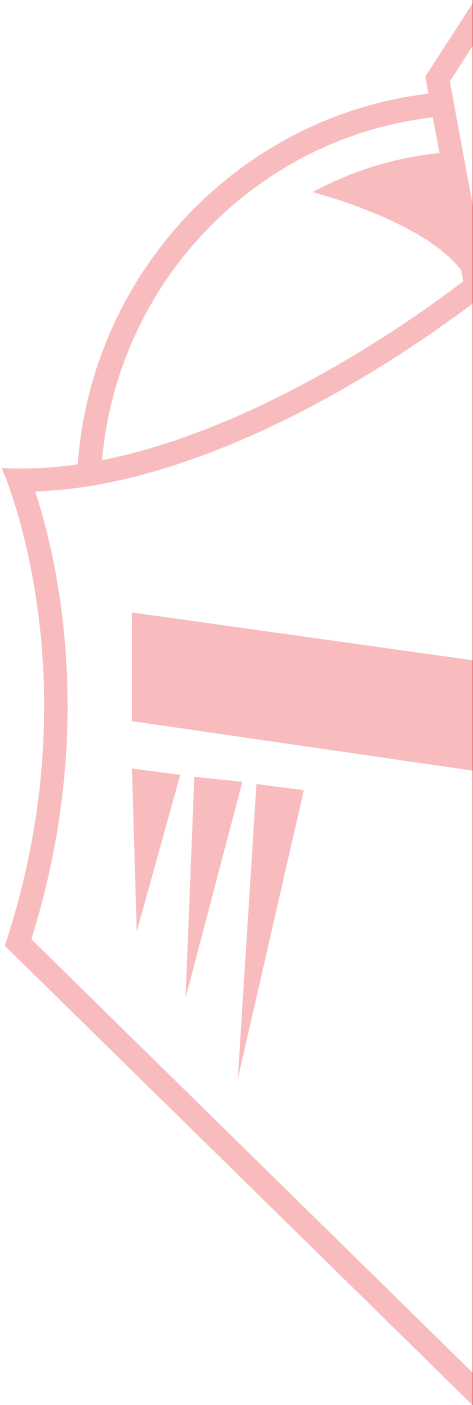
alfanar

As part of the alfanar group, Contactum benefits from the backing of a global leader in electrical manufacturing, energy, and infrastructure. Headquartered in Riyadh, Saudi Arabia, alfanar brings world-class scale, engineering excellence, and advanced production capabilities to the partnership.

A large proportion of Contactum's product offering is manufactured at alfanar Industrial City — a cutting-edge 700,000 square metre facility in Riyadh. This ISO-certified complex is equipped with automated production lines, quality testing laboratories, and R&D centres, staffed by skilled professionals committed to delivering consistent quality and innovation across all markets.



By combining the local insight and agility of a UK-based brand with the scale, resources, and innovation of a global manufacturing group, Contactum remains uniquely positioned to serve the needs of the modern electrical market. Whether supporting new build developments, refurbishment projects, or infrastructure upgrades, Contactum continues to deliver dependable solutions trusted by professionals across the UK and beyond.



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When AMD2 of the 18th Edition of the wiring regulations was released in 2022, significant changes were implemented that impacted the decisions made by manufacturers, designers and installers of consumer units and incorporated circuit protection devices.

(421.1.7) Arc Fault Detection

As a means of providing additional protection against fire caused by arc faults in AC final circuits, Arc Fault Detection Devices conforming to IEC/BS EN 62606 are required in certain circumstances and recommended in others. Contactum have introduced a range to support contractors in meeting these obligations.

(443.4) Overvoltage (Surge) Protection

Although not a new addition to the wiring regulations, an emphasis has been put on the merits of installing SPDs and now these devices are becoming a standard inclusion within Consumer Units. Protection against transient overvoltages shall be provided where the consequence caused by the overvoltage could result in serious injury to, or loss of human life and significant financial or data loss.

For all other cases, protection against transient overvoltages shall be provided unless the owner of the installation declares it is not required due to any loss or damage being tolerable and they accept the risk of damage to equipment and any consequential loss.

(531.3.3) RCD Selection

Depending on their behaviour in the presence of DC components and frequencies, an appropriate RCD shall be selected from the different types of RCDs that exist. With the growing number of electronic devices in the home, Type A RCDs are now seen as the general standard and Contactum provide Type A as standard on all RCCBs and RCBs.

(536.4.3.2) Overload Protection of RCCBs & Switches

Devices of this nature do not normally provide protection against overload. These devices shall now be protected by an appropriately rated overcurrent protective device upstream of the RCCB or switch and be installed according to the manufacturers instructions.

Overload protection of the switch or RCCB can now not be solely based on the use of diversity factors of the downstream circuits. Contactum provides clear InA ratings for every Consumer Unit and advise that this rating must not exceed the upstream OCPD rating.

BS7671:2018 AMD3:2024

An amendment to the wiring regulations (AMD3) was introduced on the 31st July 2024. This amendment provides for the inclusion of two new definitions and one new regulation relating to the use of bidirectional and unidirectional circuit protection devices.

Definitions:

+ Bidirectional Protective Device

A protective device where it is intended by the manufacturer that a source of supply is connected to either or both sets of connection terminals

+ Unidirectional Protective Device

A protective device designed by the manufacturer to allow a power source to be connected only to a specific set of connection terminals.

Regulation 530.3.201

Selection and erection of equipment for protection shall take account of appropriate use of either a unidirectional protective device or a bidirectional device.

Product standards (as listed in appendix 1) for some protective devices, including RCCBs, RCBs, circuit breakers and AFDDs, require these devices to be marked to indicate if they are unidirectional e.g. “in” and “out” or “Line” and “Load” arrows.

Contactum Design Service for Circuit Protection

Our bespoke design service for factory-assembled units ensures a customised solution tailored to your project's needs.

Tailored Circuit Protection Solutions

Our expert team will help you design the optimal configuration for your project.

Using both standard and non-standard Contactum devices and accessories, we supply fully assembled units ready for immediate installation.

If your project requires fully customised solutions or pre-fitted outgoing devices, our service offers:

- + Reduced on-site labour time
- + Seamless project continuity
- + Enhanced efficiency and reliability

How it Works:

1. Contact our dedicated contractor sales team via the email below.
2. Discuss your requirements, agree on a design configuration, and confirm quantities.
(Minimum order quantities apply)
3. Receive a tailored quotation based on your exact needs.
4. Place an order through one of our selected distributor partners.
5. We assemble and dispatch your boards—fully configured and ready for installation.

**Contact our
Customer Service Team:**

Telephone:
0208 208 7419

Email the contractors sales team:
contractors@contactum.co.uk

Why Choose Our Design Service?

Our design service is ideal for all project applications, ensuring compliance, continuity, and peace of mind. We collaborate closely with M&E Consultants, Electrical Contractors, and Housing Developers to deliver efficient and seamless solutions.



- + Dedicated contractor sales team
- + Fast turnaround from enquiry to delivery
- + Reduced on-site labour costs
- + Minimised waste from packaging
- + No loose products on-site
- + Correctly configured boards for faster installation
- + Available for all circuit protection ranges

CONTACTUM
Quality by design

Choosing the Right Solution Without Compromise

At Contactum, we understand that different installations have different demands.

That's why we offer two distinct consumer unit solutions:

Defender 1.0 and Defender 2.0

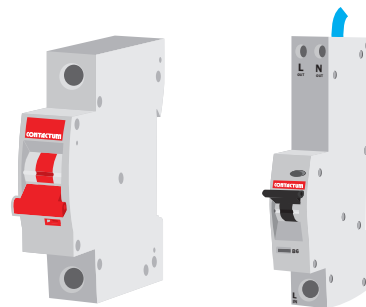
Each designed to meet specific needs while maintaining superior quality, compliance, and safety.

Both designs are supported with a full range 6kA and a selection of 10kA circuit protection devices including:

MCB's B or C curve

RCBO's Single Pole or Switched Neutral with Bi-Directional power flow compatibility

AFDD's MCB or RCBO functionality



Defender 1.0 Consumer Unit

Affordable Reliability Without Compromise

The Defender 1.0 consumer unit is engineered to provide a cost-effective solution while ensuring uncompromised quality, safety, and compliance. Developed to offer exceptional value, it delivers everything needed for a reliable installation without unnecessary extras.

- + **Superior Construction:** Built with high-quality materials for durability and longevity.
- + **Fully Compliant:** Meets BS EN 61439-3 and BS7671 standards for guaranteed safety.
- + **Essential Features:** Designed for straightforward installations with all the fundamental protections required.
- + **Value for Money:** A practical and cost effective choice without sacrificing performance.



Perfect for:

- + **Standard residential installations**
- + **Cost-conscious projects requiring compliance and quality**
- + **Installers looking for a no-fuss, reliable consumer unit**

Which One is Right for You?

Whether you need a cost-effective, compliant solution (Defender 1.0) or a premium, feature-rich consumer unit designed for modern living (Defender 2.0), we have the perfect fit for your project. **Turn to page 12 to discover Defender 2.0 in detail.**

Both Defender 1.0 and Defender 2.0 are built to last, protect, and perform—the choice comes down to your project's specific needs.

Some of the most important aspects are featured here:

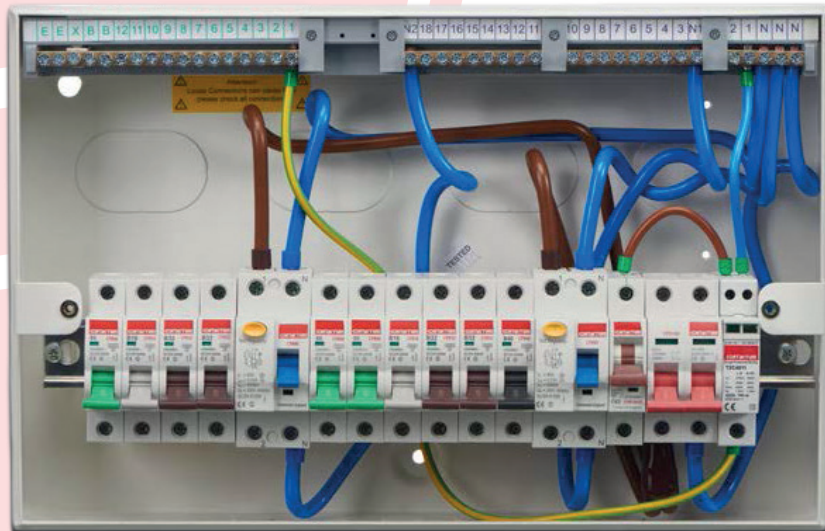
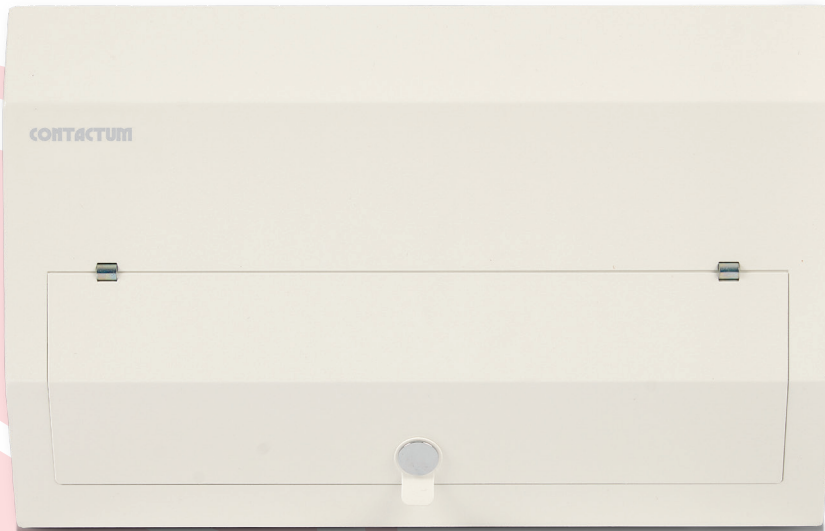
All Defender 1.0 Consumer Units are packed with enhanced features and benefits.

- + Tested by reputed third party in accordance with BS EN 61439-3: 2012 including Annex ZB
- + Up to 100A (InA) rated
- + Type A RCDs, Type B RCDs and RCBOs as standard
- + Stackable enclosures



Features

I



External Features



Secure hinge design



Locking kits available

+ Stackable enclosure

Allowing unlimited configurations

+ Comprehensive range

Comprising 10 different enclosures sizes

+ Modern sleek design

Suitable for all installations

+ Degree of protection IP4X

Internal Features

+ Maximum cable space

Extensive number of cable entry points allowing easy installation

+ Flexible Board Configuration

To enable optimal combination of RCD, MCB and RCBO use

+ Up to 22 module board as standard

Combine boards to increase number of outgoing ways

+ Pre-populated Configurations Available

+ Full metal din rail

For secure device fixing

Defender 1.0

I

Switch Disconnect Incomer Consumer Units Without & With Surge Protection

2 Way: 63A CU ISO Incomer
4 - 20 Way: 100A CU ISO Incomer



Stand Alone SPD Enclosure

O/G Ways:	Enclosure:	Product Code:
0 Way	4 Mod	DD006SPMS

63A Rating

O/G Ways:	Enclosure:	Product Code:
2 Way	4 Mod	DD026MS

100A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
4 Way	6 Mod	DD041MS	8 Mod	DD041SPMS
6 Way	8 Mod	DD061MS		
8 Way			12 Mod	DD081SPMS
10 Way	12 Mod	DD101MS	14 Mod	DD101SPMS
12 Way	14 Mod	DD121MS	16 Mod	DD121SPMS
14 Way	16 Mod	DD141MS	18 Mod	DD141SPMS
16 Way	18 Mod	DD161MS	20 Mod	DD161SPMS
18 Way	20 Mod	DD181MS	22 Mod	DD181SPMS
20 Way	22 Mod	DD201MS		
With SPD				

100A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
10 Way Switch + 6 eRCBO + 4 Blanks	14 Mod	DD101SPMS-P01

RCD Incomer Consumer Units

4 - 20 Way: 80A CU ISO Incomer + 1 RCD Type A



80A Rating

O/G Ways:	Enclosure:	Product Code:
4 Way	6 Mod	DR048AMS
6 Way	8 Mod	DR068AMS
10 Way	12 Mod	DR108AMS
14 Way	16 Mod	DR148AMS
16 Way	18 Mod	DR168AMS
20 Way	22 Mod	DR208AMS

Split Load Consumer Units

8 - 18 Way: 80A CU ISO Incomer + 1 RCD Type A



80A Rating

O/G Ways:	Enclosure:	Product Code:
8	12 Mod	DS0818AMS
10	14 Mod	DS1018AMS
12	16 Mod	DS1218AMS
14	18 Mod	DS1418AMS
18	22 Mod	DS1818AMS

Flexible High Integrity Split Load Dual RCD Consumer Units Without & With Surge Protection

6 - 16 Way: 80A CU ISO Incomer + 2 RCD Type A



80A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6	12 Mod	DDS06188AMS	14 Mod	DDS06188ASPMS
8	14 Mod	DDS08188AMS	16 Mod	DDS08188ASPMS
10	16 Mod	DDS10188AMS	18 Mod	DDS10188ASPMS
12	18 Mod	DDS12188AMS	20 Mod	DDS12188ASPMS
14	20 Mod	DDS14188AMS	22 Mod	DDS14188ASPMS
16	22 Mod	DDS16188AMS	With SPD	

80A Rating - Populated

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 c/w + 6 MCBs	12 Mod	DDS06188AMS-P01		
8 c/w + 8 MCBs	14 Mod	DDS08188AMS-P01		
10 c/w + 10 MCBs	16 Mod	DDS10188AMS-P01	18 Mod	DDS10188ASPMS-P01
12 c/w + 10 MCBs	18 Mod	DDS12188AMS-P01	20 Mod	DDS12188ASPMS-P01
14 c/w + 10 MCBs	20 Mod	DDS14188AMS-P01	22 Mod	DDS14188ASPMS-P01
16 c/w + 10 MCBs	22 Mod	DDS16188AMS-P01	With SPD	

Other populated configurations available on request



Empty Enclosures

4 - 22 Mod: IP4X Mod Metal Encl c/w Earth/ Neutral



Enclosure:	Product Code:
2 Mod	DME02MS
4 Mod	DME04MS
6 Mod	DME06MS
8 Mod	DME08MS
12 Mod	DME012MS
14 Mod	DME014MS
16 Mod	DME016MS
18 Mod	DME018MS
20 Mod	DME020MS
22 Mod	DME022MS

Garage Units

2 Way: 63A CU RCD Type A Incomer
Garage Unit: 63A RCD Type A + 16A MCB + 6A MCB



63A Rating		
O/G Ways:	Enclosure:	Product Code:
2	4 mod	DR026AMS

63A Rating - Populated		
O/G Ways:	Enclosure:	Product Code:
Garage Unit	4 Mod	DR026AMS-P01

Other populated configurations available on request

Shower Enclosures

- Shower Enclosures:**
0 O/G Way 40A RCBO Type A
1 O/G Way 63A RCD Type A + 50A MCB
2 O/G Way 63A RCD Type A + 32A MCB + 16A MCB



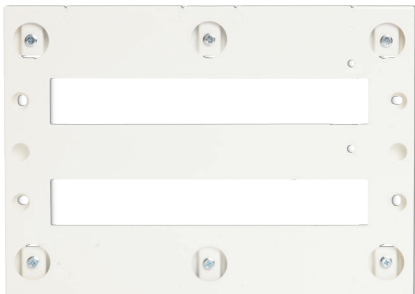
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O/G Ways:	Rating:	Enclosure:	Product Code:
0	40A	2 Mod	DSPE1AMS
1	50A	4 Mod	DSPE2AMS
2	63A	4 Mod	DSPE3AMS

Other populated configurations available on request

Rear Cable Top Entry Bracket

12 - 22 Mod: Rear Cable Top Entry Bracket



Enclosure:	Product Code:
12 Mod	RCEB-TE-12MOD
14 Mod	RCEB-TE-14MOD
16 Mod	RCEB-TE-16MOD
18 Mod	RCEB-TE-18MOD
20 Mod	RCEB-TE-20MOD
22 Mod	RCEB-TE-22MOD

Technical Data for Defender 1.0:

Standard	BS EN 61439-3: 2012 Including Annex ZB (16kA)	IP Protection Rating	IP2XC/IP4X
Max Current Rating (InA) *	100A	Impact Rating	IK05
Rated Operating Voltage (Ue)	230V AC 50Hz	RAL Colour	9016
Short Circuit Withstand (Icw)	10kA 0.1 sec	Fixing	Surface
Poles	1	Terminal Torque (N.m)	1.5
Cable Entry/Exit (KO's)	20, 25 & 32mm	Module Width	17.8mm
Material	1.2mm Sheet Steel		

Please see product description for individual enclosure InA rating as each Consumer Unit differs. The upstream over current protection device must not exceed the enclosure InA rating.

Defender 2.0

Designed for Modern Living & Effortless Installation



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Choosing the Right Solution Without Compromise

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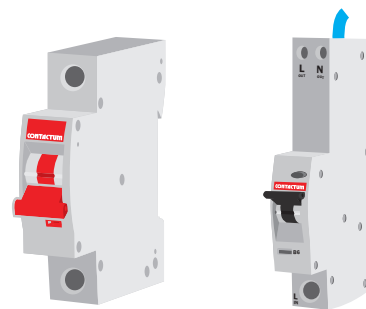
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MCB's B or C curve

RCBO's Single Pole or Switched Neutral with Bi-Directional power flow compatibility

AFDD's MCB or RCBO functionality

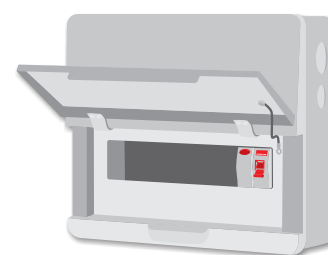


Defender 2.0 Consumer Unit

Designed for Modern Living & Effortless Installation

Building upon the robust foundation of the Defender 1.0, the Defender 2.0 consumer unit introduces an enhanced experience tailored for both the installer and end user. Thoughtfully designed with modern aesthetics, convenience, and innovation in mind, Defender 2.0 is the premium choice for contemporary electrical installations.

- + **Installer-Friendly Features:** Time-saving innovations make installation smoother and faster.
- + **Enhanced Safety & Compliance:** Fully meets BS EN 61439-3 and BS7671 while offering additional safety features.
- + **Aesthetically Pleasing:** A sleek, modern design that blends seamlessly into modern living environments in both surface and flush mounted options.
- + **Expanded Range & Configurations:** Available in surface and flush mounted options, with single or dual-row configurations to accommodate different installation requirements.



Perfect for:

- + High-end multi-residential installations requiring superior technical performance
- + Installers seeking premium ease-of-installation features
- + Designers and homeowners who value both safety and stylish design

Which One is Right for You?

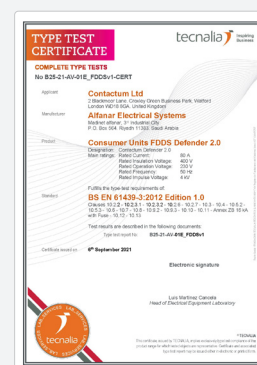
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Both Defender 1.0 and Defender 2.0 are built to last, protect, and perform - the choice comes down to your project's specific needs.

Some of the most important aspects are featured here:

All Defender 2.0 Consumer Units are packed with enhanced features and benefits.

- + Tested by reputed third party in accordance with BS EN 61439-3: 2012 including Annex ZB
- + Up to 100A (InA) rated
- + Type A RCDs, Type B RCDs and RCBOs as standard
- + Surface and Flush Mounted versions available
- + Up to 24 modules Single Row
- + Up to 44 modules Dual Row



NEW Generation

II



External Features

+ UV Powder coated paint

Colour finish RAL9016 seamlessly blending into today's modern residential installations

+ Extensive number of cable entry points

Allowing easy installation

+ Modern curved design with flush front lid

For the most demanding and visible installations blending in with today's modern living environments where the Consumer Unit is on show

+ Designed by Micieli

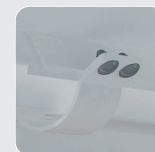


Locking kits available



Retained screws

Fitted on the enclosure lid for ease of fixing and convenience, no more lost cover screws



Unique hinged lid design

Lid can be latched open for convenience during installation tests and circuit identification

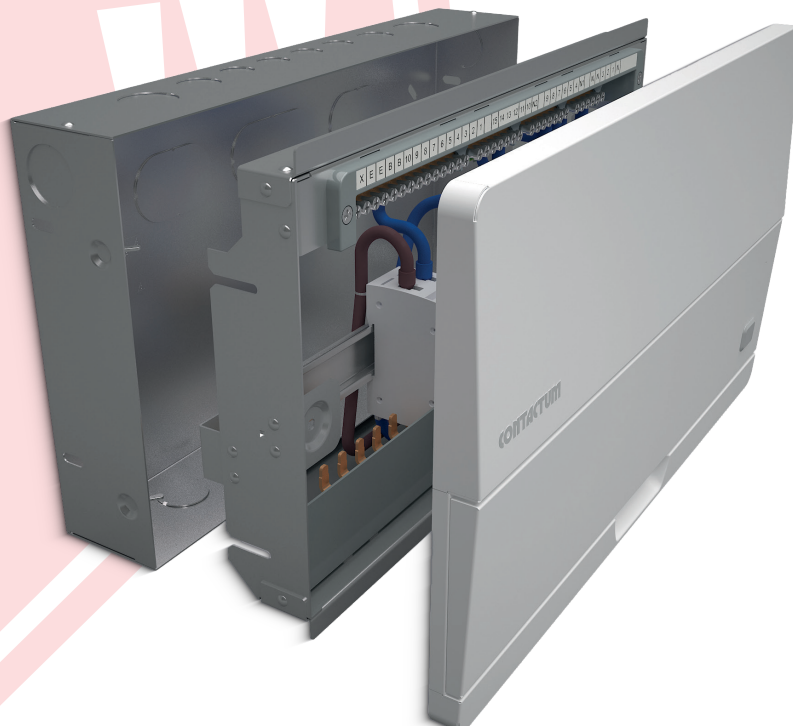
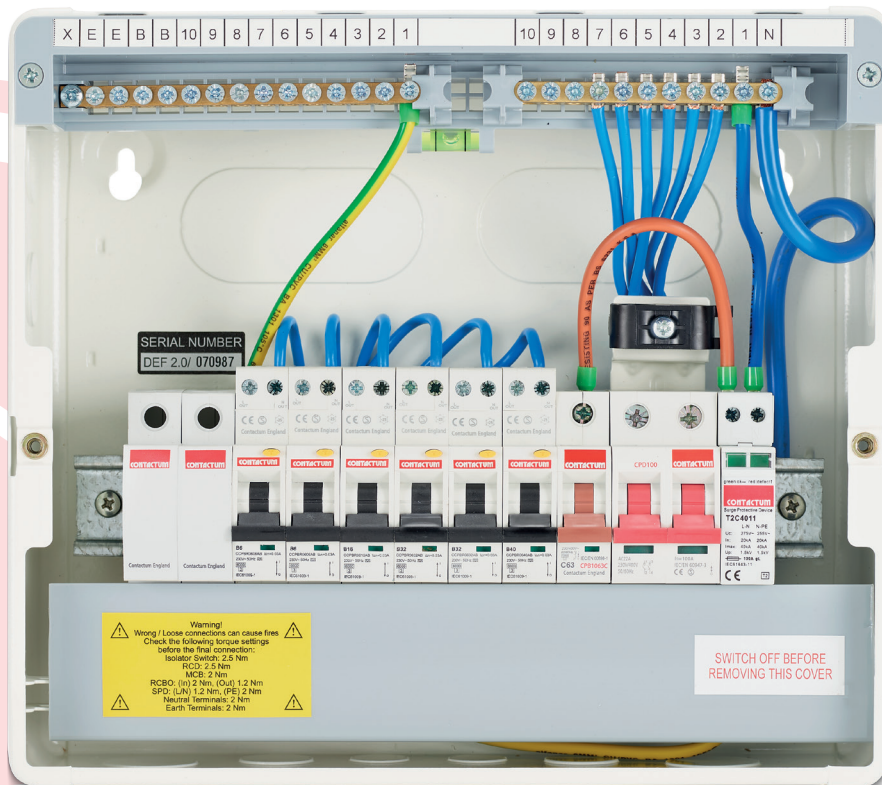


Finger operated mechanical lid clip

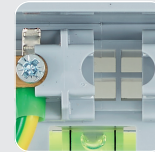
Safety feature. Needs to be pressed to be opened

NEW Generation

II



Internal Features



Spirit level

High quality spirit level.
For added installation
guidance (Surface
Mounted version only)



Cable clamp

Meter Tails Retention
Clamp Standard on all
Defender 2.0
Consumer Units



Type 2 SPD with MCB

Type 2 Surge Protection
Kit with MCB and cables



Type 2 Compact SPD

Type 2 Surge Protection
Kit with cables, no
MCB required



Busbar cover

Easy secure clip-in
busbar cover –
For added safety,
faster installation and
maximum flexibility

Flush Features

+ Full metal din rail

For secure device fixing

+ Flush front lid

Only protrudes 23mm when installed

+ Adjustable assembly frame

Allowing for different plasterboard
depths

+ 2 Part flush design

Allowing for 1st fix and 2nd fix Installation

Switch Disconnect Incomer Consumer Units

- 2 - 10 Way: 63A CU ISO Incomer
- 2 Way: 80A CU ISO Incomer
- 4 - 22 Way: 100A CU ISO Incomer
- 14 - 42 Way: 100A Dual Row CU ISO Incomer



63A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
2 Way	4 Mod	SDD026MS	6 Mod	SDD026SPMS
6 Way	8 Mod	SDD066MS		
10 Way	12 Mod	SDD106MS		
With SPD				

63A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
10 + 6 eRCBO + 4 Blank	12 Mod	SDD106MS-P01

80A Rating

O/G Ways:	Enclosure:	Product Code:
2	4 Mod	SDD028MS

100A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
4	6 Mod	SDD041MS	8 Mod	SDD041SPMS
6	8 Mod	SDD061MS	10 Mod	SDD061SPMS
8	10 Mod	SDD081MS	12 Mod	SDD081SPMS
10	12 Mod	SDD101MS	14 Mod	SDD101SPMS
12	14 Mod	SDD121MS	16 Mod	SDD121SPMS
14	16 Mod	SDD141MS	18 Mod	SDD141SPMS
16	18 Mod	SDD161MS	20 Mod	SDD161SPMS
18	20 Mod	SDD181MS	22 Mod	SDD181SPMS
20	22 Mod	SDD201MS	24 Mod	SDD201SPMS
22	24 Mod	SDD221MS		
With SPD				

100A Rating - Dual Row

O/G Ways:	Enclosure:	Product Code:
6 + 8 (Total 14 way)	16 Mod DR	SDD2141MS
14 + 16 (Total 30 way)	32 Mod DR	SDD301MS
20 + 22 (Total 42 way)	44 Mod DR	SDD421MS

100A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
10 + 6 eRCBO + 4 Blank	12 Mod	SDD101MS-P01

RCD Incomer Consumer Units

6 - 10 Way: 63A CU RCD Type A Incomer

6 Way: 80A CU RCD Type A Incomer

10 - 20 Way: 100A CU RCD Type A Incomer



63A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
6	8 Mod	SDR066AMS
10	12 Mod	SDR106AMS

80A Rating

O/G Ways:	Enclosure:	Product Code:
6	8 Mod	SDR068AMS

100A Rating

O/G Ways:	Enclosure:	Product Code:
10	12 Mod	SDR101AMS
14	16 Mod	SDR141AMS
16	18 Mod	SDR161AMS
20	22 Mod	SDR201AMS

Garage Unit

2 Way: 63A CU RCD Type A Incomer

Garage Unit: 63A RCD Type A + 16A MCB + 6A MCB



63A Rating

O/G Ways:	Enclosure:	Product Code:
2	4 Mod	SDR026AMS

63A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
Garage Unit	4 Mod	SDR026AMS-P01

Other populated configurations available on request

Split Load Consumer Units

8 - 16 Way: 63A CU ISO Incomer + 1 RCD Type A

8 - 20 Way: 100A CU ISO Incomer + 1 RCD Type A



63A Rating

O/G Ways:	Enclosure:	Product Code:
8	12 Mod	SDS0816AMS
12	16 Mod	SDS1216AMS
14	18 Mod	SDS1416AMS
16	20 Mod	SDS1616AMS

100A Rating

O/G Ways:	Enclosure:	Product Code:
8 Way	12 Mod	SDS0811AMS
12 Way	16 Mod	SDS1211AMS
14 Way	18 Mod	SDS1411AMS
16 Way	20 Mod	SDS1611AMS
18 Way	22 Mod	SDS1811AMS
20 Way	24 Mod	SDS2011AMS

Flexible High Integrity Split Load Dual RCD Consumer Units

6 - 16 Way: 63A CU ISO Incomer + 2 RCD Type A

6 - 18 Way: 100A CU ISO Incomer + 2 RCD Type A

26 - 38 Way: 100A Dual Row CU ISO Incomer + 2 RCD Type A



63A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 Way	12 Mod	SDDS06166AMS		
8 Way			16 Mod	SDDS08166ASPMS
10 Way	16 Mod	SDDS10166AMS	18 Mod	SDDS10166ASPMS
12 Way	18 Mod	SDDS12166AMS	20 Mod	SDDS12166ASPMS
14 Way	20 Mod	SDDS14166AMS	22 Mod	SDDS14166ASPMS
16 Way	22 Mod	SDDS16166AMS		
With SPD				

63A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
6 Way + 6MCB	12 Mod	SDDS06166AMS-P01
10 Way + 10MCB	16 Mod	SDDS10166AMS-P01
12 Way + 10MCB	18 Mod	SDDS12166AMS-P01

Other populated configurations available on request



100A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 Way	12 Mod	SDDS06111AMS	12 Mod	SDDS06111AMS
8 Way			16 Mod	SDDS08111ASPMS
10 Way	16 Mod	SDDS10111AMS	18 Mod	SDDS10111ASPMS
12 Way	18 Mod	SDDS12111AMS	20 Mod	SDDS12111ASPMS
14 Way	20 Mod	SDDS14111AMS	22 Mod	SDDS14111ASPMS
16 Way	22 Mod	SDDS16111AMS	24 Mod	SDDS16111ASPMS
18 Way	24 Mod	SDDS18111AMS		
With SPD				

100A Rating - Dual Row

O/G Ways:	Enclosure:	Product Code:
12 + 14 Way (Total 26 way) + 2 RCD Type A	32 Mod DR	SDDS26111AMS
18 + 20 Way (Total 38 way) + 2 RCD Type A	44 Mod DR	SDDS38111AMS

100A Rating - Populated

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 Way + 6 MCB	12 Mod	SDDS06111AMS-P01		
10 Way + 10 MCB	16 Mod	SDDS10111AMS-P01	18 Mod	SDDS10111ASPMS-P01
12 Way + 10 MCB	18 Mod	SDDS12111AMS-P01	20 Mod	SDDS12111ASPMS-P01
14 Way + 10 MCB	20 Mod	SDDS14111AMS-P01	22 Mod	SDDS14111ASPMS-P01
16 Way + 10 MCB	22 Mod	SDDS16111AMS-P01	24 Mod	SDDS16111ASPMS-P01
18 Way + 10 MCB	24 Mod	SDDS18111AMS-P01		
With SPD				



Empty Enclosures

4 - 24 Mod: IP2XC/IP4X Mod Metal Encl c/w Earth/ Neutral



Enclosure:	Product Code:
4 Mod	SDME04MS
6 Mod	SDME06MS
8 Mod	SDME08MS
10 Mod	SDME010MS
12 Mod	SDME012MS
14 Mod	SDME014MS
16 Mod	SDME016MS
18 Mod	SDME018MS
20 Mod	SDME020MS
22 Mod	SDME022MS

Rear Cable Top Entry Bracket

12 - 24 Mod: Rear Cable Top Entry Bracket



Enclosure:	Product Code:
12 Mod	RCEB-TE-12M-D2
16 Mod	RCEB-TE-16M-D2
18 Mod	RCEB-TE-18M-D2
20 Mod	RCEB-TE-20M-D2
22 Mod	RCEB-TE-22M-D2
24 Mod	RCEB-TE-24M-D2

Technical Data for Surface CU:

Standard	BS EN 61439-3: 2012 Including Annex ZB (16kA)	IP Protection Rating	IP2XC/IP4X
Max Current Rating (InA) *	100A	Impact Rating	IK05
Rated Operating Voltage (Ue)	230V AC 50Hz	RAL Colour	9016
Short Circuit Withstand (Icw)	10kA 0.1 sec	Fixing	Surface
Poles	1	Terminal Torque (N.m)	1.5
Cable Entry/Exit (KO's)	20, 25 & 32mm	Module Width	17.8mm
Material	1.2mm Sheet Steel		

Please see product description for individual enclosure InA rating as each Consumer Unit differs. The upstream over current protection device must not exceed the enclosure InA rating.

Switch Disconnect Incomer Consumer Units

6 - 8 Way: 80A Flush Mounted CU ISO Incomer
8 - 18 Way: 100A Flush Mounted CU ISO Incomer
14 - 30 Way: 100A Flush Mounted Dual Row CU ISO Incomer



80A Rating

O/G Ways:	Enclosure:	Product Code:
6 Way	8 Mod	FDD068MS
8 Way	10 Mod	FDD088MS

100A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
8 Way			12 Mod	FDD081SPMS
10 Way	12 Mod	FDD101MS		
12 Way			14 Mod	FDD121SPMS
14 Way	16 Mod	FDD141MS	16 Mod	FDD141SPMS
16 Way	18 Mod	FDD161MS	20 Mod	FDD161SPMS
18 Way	20 Mod	FDD181MS		
With SPD				

100A Rating - Populated

O/G Ways:	Enclosure:	Product Code:
6 + 8 Way (Total 14 way)	16 Mod DR	FDD2141MS
14 + 16 Way (Total 30 way)	32 Mod DR	FDD301MS

RCD Incomer Consumer Units

6 Way: 80A Flush Mounted CU RCD Type A Incomer
10 - 18 Way: 100A Flush Mounted CU RCD Type A Incomer



80A Rating

O/G Ways:	Enclosure:	Product Code:
6 Way	8 Mod	FDR068AMS

100A Rating

O/G Ways:	Enclosure:	Product Code:
10 Way	12 Mod	FDR101AMS
14 Way	16 Mod	FDR141AMS
16 Way	18 Mod	FDR161AMS
18 Way	20 Mod	FDR181AMS

Flexible High Integrity Split Load Dual RCD Consumer Units

6 - 12 Way: 63A CU ISO Incomer + 2 RCD Type A
6 - 14 Way: 80A CU ISO Incomer + 2 RCD Type A



63A Rating - Populated

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 Way	12 Mod	FDDS06166AMS		
10 Way	16 Mod	FDDS10166AMS	18 Mod	FDDS10166ASPMS
12 Way	18 Mod	FDDS12166AMS		
With SPD				

Other populated configurations available on request

80A Rating

O/G Ways:	Enclosure:	Product Code:	Enclosure:	Product Code:
6 Way	12 Mod	FDDS06188AMS	18 Mod	
10 Way	16 Mod	FDDS10188AMS	18 Mod	FDDS10188ASPMS
12 Way	18 Mod	FDDS12188AMS		
14 Way	20 Mod	FDDS14188AMS		
With SPD				

Technical Data for Flush CU:

Standard	BS EN 61439-3: 2012 Including Annex ZB (16kA)	IP Protection Rating	IP2XC/IP4X
Max Current Rating (InA) *	100A	Impact Rating	IK05
Rated Operating Voltage (Ue)	230V AC 50Hz	RAL Colour	9016
Short Circuit Withstand (Icw)	10kA 0.1 sec	Fixing	Flush
Poles	1	Terminal Torque (N.m)	1.5
Cable Entry/Exit (K0's)	20, 25 & 32mm	Module Width	17.8mm
Material	1.2mm Sheet Steel		

Please see product description for individual enclosure InA rating as each Consumer Unit differs. The upstream over current protection device must not exceed the enclosure InA rating.

Isolators



63A Rating

Product:	Product Code:
63A Double Pole Isolator	CPD63

100A Rating

Product:	Product Code:
100A Double Pole Isolator	CPD100

Technical Data for Isolator:

Standard	EN / IEC60947-3	Mechanical endurance	10000
Rated currents	63, 100A	Type of terminal	Lug type and Pin type
Rated voltage	2 pole 230 AC 50/60Hz	Terminal capacity	Cables up to 50mm2
Utilization category	AC-22A	Ambient temperature (oC)	-5oC to +40oC, Max.95% humidity
Icw	12Ie, t=0.1s	Storage temperature (oC)	-40~+75
Rated short-circuit making capacity Ion	20Ie, t=0.1s	Altitude (meters)	Max. 2,000
Rated making & breaking capacity	3Ie, 1.05Ue, COSφ0.65	Protection degree	IP20
Rated insulation voltage Ui	690V	Installation	Mounting on 35mm DIN rail
Rated impulse withstand voltage Uimp	4000V	Module Width	17.8mm per pole
Electrical endurance	1500		

Type A RCDs

30mA: 63A - 100A Type A 2 Pole RCD
100mA: 100A Type A 2 Pole RCD



30mA Rated Sensitivity Currents

Current Rating:	Product Code:
63A	CPR63A
100A	CPR100A

100mA Rated Sensitivity Currents

Current Rating:	Product Code:
100mA	CPR1010A
100mA + Time Delay	CPR1010AT

Technical Data for RCD:

Standard	Confirming to EN / IEC61008-1	Ambient temperature	-5oC to +40oC, Max. 95%humidity
Rated conditional short-circuit current, Inc	6kA	Residual current disconnection time	≤0.1s
Protection	Residual current	Rated residual current making & breaking	500A for In=25,40A
Type	A	Capacity, IΔm	630A for In=63,80,100
Rated current, In	63, 100	Type of trip	Electro-magnetic release
Number of poles	2(1+N)	Type of terminal	Lug type and Pin type
Rated sensitivity currents, I Δn	30,100mA	Terminal capacity	Cables up to 35mm2
Rated residual non-operating current	0.5 X I Δn	Protection degree	IP20
Rated impulse withstand voltage Uimp	6000V	Installation	35mm DIN rail
Rated voltages 2pole	230VAC		

Type B RCDs

- 30mA: 25A - 80A 1P+N Type B RCD
- 100mA: 25A - 80A 1P+N Type B RCD
- 300mA: 25A - 80A 1P+N Type B RCD*



30mA Rated Sensitivity Currents

Current Rating:	Product Code:
25A	CPR102503BN
40A	CPR104003BN
63A	CPR106303BN
80A	CPR108003BN

100mA Rated Sensitivity Currents

Current Rating:	Product Code:
25A	CPR102510BN
40A	CPR104010BN
63A	CPR106310BN
80A	CPR108010BN

300mA Rated Sensitivity Currents*

Current Rating:	Product Code:
25A	CPR102530BN
40A	CPR104030BN
63A	CPR106330BN
80A	CPR108030BN

*Available on request

Technical Data for Type B RCD:

Standard	IEC/EN 61008, IEC/EN62423	Rated voltages	230V
Rated conditional short-circuit current, Inc	10kA	Ambient temperature	-5oC to +40oC, Max. 95% humidity
Protection	Residual Current	Rated residual current making & breaking	1000A
Type	B	Max. back-up fuse for short-circuit current	63A (In=16-63A), 80A (In=80A)
Rated current, In	25A, 40A, 63A, 80A	Terminal capacity	1-35mm ²
Number of poles	1P+N	Max. break time	≤40mS
Rated sensitivity currents, I Δn	30mA, 100mA, 300mA	Protection degree	IP20
Frequency response range (F)	0-1000Hz	Installation	35mm DIN rail
Rated impulse withstand voltage Uimp	4kV		

MCB 1P B and C Curve

3A - 63A: 1P 6kA & 10kA B, C & D Curve MCB



Product Prefix:	kA Rating:	Current Rating:	Trip Curve B or C:
CPB	-	03	-
CPB	-	06	-
CPB	-	10	-
CPB	-	16	-
CPB	-	20	-
CPB	-	25	-
CPB	-	32	-
CPB	-	40	-
CPB	-	50	-
CPB	-	63	-
Example: CPB 10 20 B	Add code: 06 or 10 for rating	Add code: 03 - 63 for rating	Add code: B or C for curve type

Technical Data for MCB:

Standard	Confirming to IEC/BS EN60898-1	Number of poles	1P
Breaking capacity	6kA, 10kA	Type of trip	Thermal / magnetic release
Protection	Against overload and short circuit	Type of terminal	Lug type and Pin type
Rated current In	3, 6, 10, 16, 20, 25, 32, 40, 50, 63A	Terminal capacity	16mm2 flexible or 25mm2 rigid up to 25A ratings
Rated voltage	1pole 230 AC 50/60Hz, Rated insulation voltage Ui: 500V, Rated impulse withstand voltage Uimp: 6000V, Energy limiting class: 3	Protection degree	IP20
Ambient temperature	-5oC to +40oC pursuant to BS EN / IEC60898	Installation	Mounting on 35mm DIN rail
Characteristic	Thermal operating limit: (1.13-1.45) x In	Torque (N.m)	2
	Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In	Width	17.5mm per pole

eRCBO 1P Compact B and C Curve

6A - 40A: 6kA & 10kA Type A B & C Curve SP eRCBO



Product Prefix:	kA Rating:	Current Rating:	Trip Curve B or C:
CCPBR	-	06A	-
CCPBR	-	10A	-
CCPBR	-	16A	-
CCPBR	-	20A	-
CCPBR	-	25A	-
CCPBR	-	32A	-
CCPBR	-	40A	-
Example: CCPBR 10 32A C	Add code: 06 or 10 for rating	Add code: 06A - 40A for rating	Add code: B or C for curve type

Technical Data for eRCBO:

Standard	IEC/BS EN61009	Characteristic	B,C
Breaking Capacity	6kA, 10kA	Electrical endurance	10000
Number of poles	1P+N (1 module – fixed neutral)	Mechanical endurance	20000
Rated currents	6, 10, 16, 20, 25, 32, 40A	Ambient temperature	-5oC to +40oC, Max. 95%humidity
Rated voltage	230VAC	Connection terminal	Flexible 16mm2, Rigid 25mm2
Rated Tripping Current	30mA	Type of terminal	Lug type and Pin type
Residual Operating Characteristics	A	Module Width	17.8mm /module
Residual Current Disconnection Time	≤0.1s	Torque N.m	2

1P+N Bi-Directional 6KA Compact eRCBO Curve B & C

6A - 40A: 6kA Type A B & C Curve 1P+N 1 Mod eRCBO



Product Prefix:	Current Rating:	Trip curve B or C:	Model:
CPBR06	06A	-	N
CPBR06	10A	-	N
CPBR06	16A	-	N
CPBR06	20A	-	N
CPBR06	25A	-	N
CPBR06	32A	-	N
CPBR06	40A	-	N
Example: CPBR06 40A B N	Add code: 06A - 40A for rating	Add code: B or C for curve type	

*2 Pole eRCBO's available. Please see the three phase product range.

Technical Data for eRCBO:

Standard	BS EN / IEC 61009	Characteristic	B,C
Breaking Capacity	6kA	Electrical endurance	10000
Number of poles	1P+N (1 module – switched neutral)	Mechanical endurance	20000
Rated currents	6, 10, 16, 20, 25, 32, 40A	Ambient temperature	-5oC to +40oC, Max. 95%humidity
Rated voltage	230VAC	Connection terminal	Flexible 16mm ² , Rigid 25mm ²
Rated Tripping Current	30mA	Type of terminal	Lug type and Pin type
Residual Operating Characteristics	A	Module Width	17.8mm /module
Residual Current Disconnection Time	≤0.1s	Torque N.m	2

AFDD MCB or RCBO B and C Curve

6A - 40A: 6kA & 10kA Type A B & C Curve 1 Mod AFDD RCBO and MCB



Product Prefix:	Function:	kA Rating:	Current Rating:	Trip curve B or C:	Model:
AFD	-	-	06A	-	-1
AFD	-	-	10A	-	-1
AFD	-	-	16A	-	-1
AFD	-	-	20A	-	-1
AFD	-	-	25A	-	-1
AFD	-	-	32A	-	-1
AFD	-	-	40A	-	-1
	Add code: B for MCB or R for RCBO	Add code: 06 or 10 for rating	Add code: 06A - 40A for rating	Add code: B or C for Curve type	

Example: AFD R 06 25A B -1

Technical Data for AFDD

Standard	IEC/BS EN 62606, IEC/BS EN 61009-1	Characteristic	B,C
Breaking Capacity	6kA, 10kA	Electrical endurance	4000
Number of poles	1P+N (1 module)	Mechanical endurance	20000
Rated currents	6, 10, 16, 20, 25, 32, 40A	Ambient temperature	-5oC to +40oC, Max. 95%humidity
Rated voltage	230VAC	Connection terminal	Flexible 16mm ² , Rigid 25mm ²
Rated Tripping Current	30mA	Type of terminal	Lug type and Pin type
Residual Operating Characteristics	A	Module Width	17.8mm /module
Residual Current Disconnection Time	≤0.1s	Torque N.m	2

Surge Arrestor



Product:	Product Code:
Surge 40kA 1+1 Type 2 SPD Retro Fit Kit (with MCB)	T2C4011KIT
Surge 40kA 1+1 Type 2 Compact SPD Kit	T2C4011-BKIT

Contactors



Product:	Product Code:
20A 230V 1N/1NC (1 Mod)	COA20-11/230
20A 230V 2NO (1 Mod)	COA20-20/230
25A 230V 4NC (2 Mod)	COA25-04/230
25A 230V 4NO (2 Mods)	COA25-40/230
40A 230V 2NO (3 Mods)	COA40-20/230
40A 230V 4NO (3 Mods)	COA40-40/230
63A 230V 2NO (3 Mods)	COA63-20/230
63A 230V 4NO (3 Mods)	COA63-40/230
63A 230V AC/DC 4NO (3 Mods)	COD63-40/230

Timers & Bell Transformers



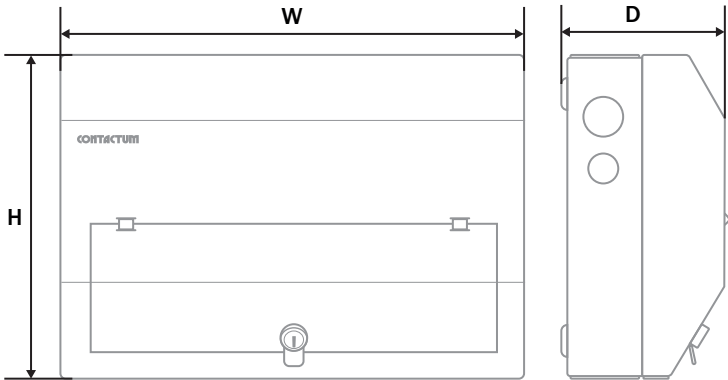
Product:	Product Code:
7Day/24Hr Digital Timer 1 Ch 2 Mod	TSD1T
24HR Analogue Timer 1 Ch 16A Resist	TSDAS1
Bell Transformer 1A 8VA Output	TSBT2

Accessories



Product:	Product Code:
MCB Blank	CPBBL
1/4 Turn Camlock Accessory	DCA01
Key Lock Camlock Accessory	DCA02
Pack of 10 MCB/RCBO Toggle Locking Device (New Design)	DCA10
Pack of 10 AMD3 33mm Membrane Grommet	DCA19
AMD3 Membrane Grommet Kit	DCA20
40/32mm Tails Red Kit Metal	DCA21
40/32mm Tails Red Kit Plastic	DCA22
Defender 1.0 C/U Stacking & Link (DDS) Kit	DCA24
Defender 1.0 C/U Stacking & Link (DD) Kit	DCA25
2.5-50mm2 Earth Cable Connector	DCA26
Defender C/U 14 Mod Spare Busbar and Cover	DCA30
Defender C/U 22 Mod Spare Busbar and Cover	DCA31

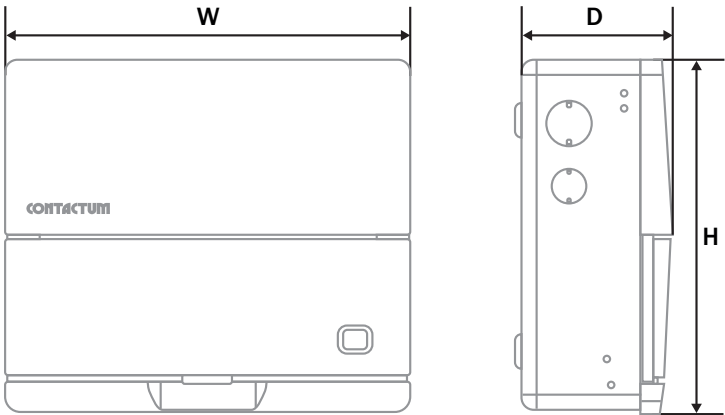
Dimensions



Defender 1.0 Dimensions

Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD

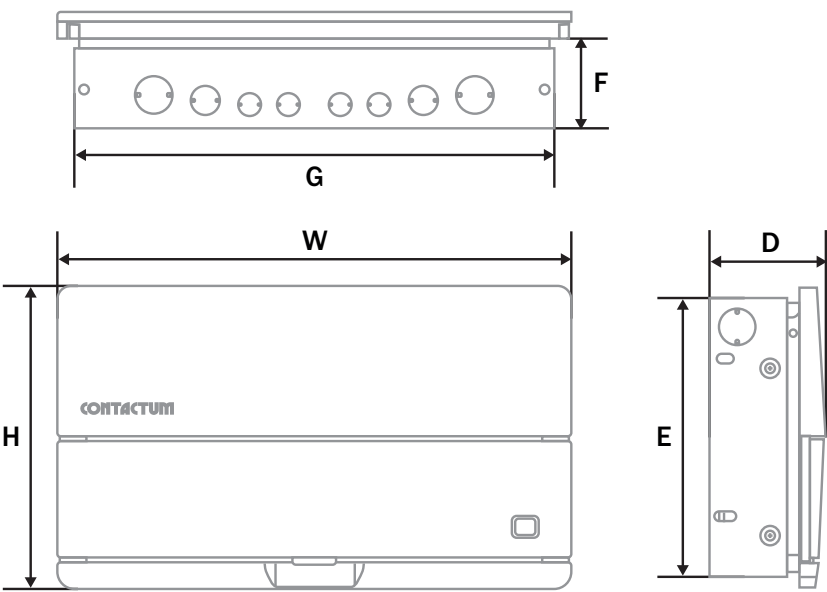
Dimensions	2 Mod	4 Mod	6 Mod	8 Mod	12 Mod	14 Mod	16 Mod	18 Mod	20 Mod	22 Mod
Height (H) mm	260	260	260	260	260	260	260	260	260	260
Width (W) mm	114	150	186	222	294	330	366	402	438	474
Depth (D) mm	130	130	130	130	130	130	130	130	130	130



Surface Mounted Defender 2.0 Dimensions

Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD

Dimensions	4 Mod	6 Mod	8 Mod	10 Mod	12 Mod	14 Mod	16 Mod	16 Mod	18 Mod	20 Mod	22 Mod	24 Mod	32 Mod	44 Mod
Height (H) mm	262	262	262	262	262	262	262	524	262	262	262	262	524	524
Width (W) mm	155	227	227	299	299	371	371	227	407	443	479	515	371	479
Depth (D) mm	114	114	114	114	114	114	114	114	114	114	114	114	114	114
Dual Row								DR					DR	DR



Flush Mounted Defender 2.0 Dimensions

Allow 2 modular ways for each Switch Disconnector or RCD and allow 1 modular way for each MCB, RCBO or AFDD

Dimensions	8 Mod	12 Mod	16 Mod	16 Mod	18 Mod	20 Mod	32 Mod
Height (H) mm	262	262	524	262	262	262	524
Width (W) mm	299	371	299	443	479	515	443
Depth (D) mm	100	100	100	100	100	100	100
Recessed Height (E) mm	242	242	508	242	242	242	508
Recessed Width (G) mm	264	336	264	408	444	480	408
Recessed Depth (F) mm	77	77	77	77	77	77	77
Dual Row			DR				DR

Technical Data for Consumer Units

Standard	BS EN 61439-3:2012 Including Annex ZB (16kA)
Max Current Rating (InA) *	100A
Rated Operating Voltage (Ue)	230V AC 50Hz
Short Circuit Withstand (Icw)	10kA 0.1 sec
Poles	1
Cable Entry/Exit (KO's)	20, 25 & 32mm
Material	1.2mm Sheet Steel
IP Protection Rating	IP2XC/IP4X
Impact Rating	IK05
RAL Colour	9016
Fixing	Surface & Flush (Enclosure type dependant)
Terminal Torque (N.m)	1.5
Module Width	17.8mm

Please see product description for individual enclosure InA rating as each Consumer Unit differs. The upstream over current protection device must not exceed the enclosure InA rating.

TEST CERTIFICATE

Issued to: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

For the product: Low-voltage switchgear and controlgear assembly -
Distribution boards intended to be operated by ordinary persons (DBO)

Trade name: Contactum Defender

Type/Model: DD - CU 1PH 100A 4-20 Way Switch Disconnect Incomer

Ratings: I_{ka} 100 A, U_e 230 V, U_i 400 V, U_{imp} 4 kV, IP4X, IK05
I_{sc} 10 kA - 0.1 s (comb busbar), I_{sc} 6 kA at 230 V (incoming units)
I_{sc} 6 kA and 10 kA at 230 V (outgoing units)
For more details see annex

Manufactured by: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

Subject: Design verification; Construction and performance

Requirements: IEC 61439-3, 1st ed. 2012-02
Clauses 10.2.3, 10.2.6, 10.2.7, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: The product complies with the above requirements from the standard.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. Z217234.14-INC, dated 9 October 2017.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 9 October 2017 Number: 2217234.113

DEKRA Certification B.V.


H.L. Schendstok
Certification Manager

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TEST CERTIFICATE

Issued to: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

For the product: Low-voltage switchgear and controlgear assembly -
Distribution boards intended to be operated by ordinary persons (DBO)

Trade name: Contactum Defender

Type/Model: DS - CU 1PH 100A 8-18 Way Split Load

Ratings: I_{ka} 100 A, U_e 230 V, U_i 400 V, U_{imp} 4 kV, IP4X, IK05
I_{sc} 10 kA - 0.1 s (comb busbar), I_{sc} 6 kA at 230 V (incoming units)
I_{sc} 6 kA and 10 kA at 230 V (outgoing units)
For more details see annex

Manufactured by: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

Subject: Design verification; Construction and performance

Requirements: IEC 61439-3, 1st ed. 2012-02
Clauses 10.2.3, 10.2.6, 10.2.7, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: The product complies with the above requirements from the standard.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. Z217234.12-INC, dated 9 October 2017.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 9 October 2017 Number: 2217234.111

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H.L. Schendstok
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TEST CERTIFICATE

Issued to: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

For the product: Low-voltage switchgear and controlgear assembly -
Distribution boards intended to be operated by ordinary persons (DBO)

Trade name: Contactum Defender

Type/Model: DDS - CU 1PH 100A 6-16 Way Flexible High Integrity Split Load Dual RCD

Ratings: I_{ka} 100 A, U_e 230 V, U_i 400 V, U_{imp} 4 kV, IP4X, IK05
I_{sc} 10 kA - 0.1 s (comb busbar), I_{sc} 6 kA at 230 V (incoming units)
I_{sc} 6 kA and 10 kA at 230 V (outgoing units)
For more details see annex

Manufactured by: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

Subject: Design verification; Construction and performance

Requirements: IEC 61439-3, 1st ed. 2012-02
Clauses 10.2.3, 10.2.6, 10.2.7, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: The product complies with the above requirements from the standard.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. Z217234.13-INC, dated 9 October 2017.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 9 October 2017 Number: 2217234.112

DEKRA Certification B.V.


H.L. Schendstok
Certification Manager

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T +31 88 96 83000 F +31 88 96 83100 www.dekra-certification.com Company registration 09085396



TEST CERTIFICATE

Issued to: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

For the product: Low-voltage switchgear and controlgear assembly -
Distribution boards intended to be operated by ordinary persons (DBO)

Trade name: Contactum Defender

Type/Model: DR - CU 1PH 100A 4-20Way RCD Incomer

Ratings: I_{ka} 80 A, U_e 230 V, U_i 400 V, U_{imp} 4 kV, IP4X, IK05
I_{sc} 10 kA - 0.1 s (comb busbar), I_{sc} 6 kA at 230 V (incoming units)
I_{sc} 6 kA and 10 kA at 230 V (outgoing units)
For more details see annex

Manufactured by: Contactum Limited
Victoria Works,
Edgware Road,
London NW26LF,
United Kingdom

Subject: Design verification; Construction and performance

Requirements: IEC 61439-3, 1st ed. 2012-02
Clauses 10.2.2, 10.2.3, 10.2.6, 10.2.7, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: The product complies with the above requirements from the standard.

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. Z217234.11-INC, dated 12 February 2018.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Amhem, 9 February 2018 Number: 2217234.110

DEKRA Certification B.V.


H.L. Schendstok
Certification Manager

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TYPE TEST CERTIFICATE		tecnalia Inspiring Business
COMPLETE TYPE TESTS		
No B25-21-AV-01E_FDDsv1-CERT		
Applicant	Contactum Ltd 2 Blackmoor Lane, Croxley Green Business Park, Watford London WD18 8GA, United Kingdom	
Manufacturer	Alfanar Electrical Systems Madinet alfanar, 3 rd Industrial City P.O. Box 564, Riyadh 11383, Saudi Arabia	
Product	Consumer Units FDDS Defender 2.0 Designation: Contactum Defender 2.0 Main ratings: Rated Current: 80 A Rated Insulation Voltage: 400 V Rated Operation Voltage: 230 V Rated Frequency: 50 Hz Rated Impulse Voltage: 4 kV	
Standard	Fulfills the type-test requirements of: BS EN 61439-3:2012 Edition 1.0 Clauses 10.2.2 - 10.2.3.1 - 10.2.3.2 - 10.2.6 - 10.2.7 - 10.3 - 10.4 - 10.5.2 - 10.5.3 - 10.6 - 10.7 - 10.8 - 10.9.2 - 10.9.3 - 10.10 - 10.11 - Annex ZB 16 kA with Fuse - 10.12 - 10.13 Test results are described in the following documents: Type test report No: B25-21-AV-01E_FDDsv1	
Certificate issued on	6th September 2021	
Electronic signature		
Luis Martínez Canela Head of Electrical Equipment Laboratory		
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Defender Consumer Units

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Contactum Ltd



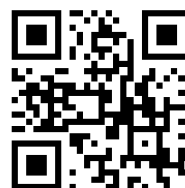
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