

CONTACTUM

 Defender



Consumer Units & Devices
Domestic Household Premises



Defender

Contactum Metal Consumer Units for Domestic Houses

In January 2015 IET published Amendment 3 of the Wiring Regulations BS7671. The changes contained within this edition will have an impact on the installation practices for domestic household premises.

Amendment 3 regulation 421.1.201 states that within domestic household premises, consumer units and similar switchgear assemblies shall comply with product standard BS EN 61439-3 and shall:

- Have their enclosure manufactured from non-combustible materials, or
- Be enclosed in a cabinet or enclosure constructed of non-combustible material and comply with regulation 132.12

■ Notes:

1. Ferrous metal, e.g. Steel is deemed to be an example of non-combustible material
2. The implementation date for this regulation is January 2016, however this does not preclude compliance prior to this date.

As a member of BEAMA (British Electrotechnical and Allied Manufacturers Association) who represent the UK manufactures, guidance has been sought. The following Q & A's are intended as guidance and are not intended as a substitute to the standards and regulations which should always be referred for all types of electrical system design and installation.

What does the regulation mean?

The intent of regulation 421.1.201 is considered to be, as far as reasonably practicable, to contain any fire within the enclosure and to minimise flames from escaping a consumer unit or similar switchgear assembly in the event of a fire.

What is the definition of non-combustible?

There is no published definition for "non-combustible" that aligns itself with the intent of regulation 421.1.201. There are many different types of non-combustible



material, however ferrous metal (Steel) is deemed to be one example of a non-combustible material that meets the intent of the regulation.

What constitutes a non-combustible enclosure?

A non-combustible enclosure includes base, cover, door and any components e.g. hinges, covers, screws, catches, necessary to maintain fire containment. Switching and protection devices, including blank covers are contained within the non-combustible enclosures.

What is meant by similar switchgear assemblies?

Similar switchgear assemblies are defined as assemblies which are used for the same fundamental application as a consumer unit.

What special conditions should be taken into account with respect to cable entries into a non-combustible enclosure to ensure containment of fire or flames?

The installer should apply good workmanship and ensure correct and high quality materials are utilised in the

ehold Premises



installation. The cable entry installation method, should as far as reasonably practicable, contain the fire within the enclosure. Account should be taken of instructions provided by the manufacturer; if any and/or those of registered trade bodies.

What is meant by a "domestic household premises"?

The intent of the regulation 421.1.201 is that it shall apply to all consumer units or similar switchgear assemblies to BS EN 61439-3 installed inside all "domestic

household properties", their integral or attached garages as well as outbuildings or others in close proximity. Examples of domestic household premises include and is not limited to – houses, bungalows, high and low rise flats, apartments/flats, sheltered accommodation, farmhouses, boats, static homes, garages, workshops etc. For further clarification consult the manufacturer or registered trade bodies.

Features & Benefits



- A comprehensive range of single phase consumer units compliant with BS7671 and 17th Edition Wiring Regulations.
- A modern sleek design suitable for all installations.
- Comprehensive range comprising 10 different enclosure sizes.
- Up to 22 module board as standard; combine boards to increase number of outgoing ways.
- Maximum cable space and extensive number of cable entry points allowing easy installation.
- Comprehensive user instructions and high quality sub circuit identification labels.
- Degree of protection IP4X.
- Tested in accordance to BS EN 61439-3.
- Optional surge protection available.
- Flexible board configuration to enable optimal combination of RCD, MCB and RCBO use.
- Pre-populated configurations available.
- Secure hinge design.
- Locking kits available.



Defender Consumer Units

Switch Disconnect Incomer Consumer Units



Code	Description	Size W x H x D (mm)
DD024MS	2 Way 40A Switch	150 x 260 x 130mm
DD026MS	2 Way 63A Switch	150 x 260 x 130mm
DD044MS	4 Way 40A Switch	186 x 260 x 130mm
DD046MS	4 Way 63A Switch	186 x 260 x 130mm
DD041MS	4 Way 100A Switch	186 x 260 x 130mm
DD066MS	6 Way 63A Switch	222 x 260 x 130mm
DD061MS	6 Way 100A Switch	222 x 260 x 130mm
DD106MS	10 Way 63A Switch	294 x 260 x 130mm
DD101MS	10 Way 100A Switch	294 x 260 x 130mm
DD121MS	12 Way 100A Switch	366 x 260 x 130mm
DD141MS	14 Way 100A Switch	366 x 260 x 130mm
DD161MS	16 Way 100A Switch	402 x 260 x 130mm
DD181MS	18 Way 100A Switch	438 x 260 x 130mm
DD201MS	20 Way 100A Switch	474 x 260 x 130mm

RCD Incomer Consumer Units



Code	Description	Size W x H x D (mm)
DR024MS	2 Way 40A RCD Incomer	150 x 260 x 130mm
DR026MS	2 Way 63A RCD Incomer	150 x 260 x 130mm
DR044MS	4 Way 40A RCD Incomer	186 x 260 x 130mm
DR046MS	4 Way 63A RCD Incomer	186 x 260 x 130mm
DR048MS	4 Way 80A RCD Incomer	186 x 260 x 130mm
DR066MS	6 Way 63A RCD Incomer	222 x 260 x 130mm
DR068MS	6 Way 80A RCD Incomer	222 x 260 x 130mm
DR106MS	10 Way 63A RCD Incomer	294 x 260 x 130mm
DR108MS	10 Way 80A RCD Incomer	294 x 260 x 130mm
DR148MS	14 Way 80A RCD Incomer	366 x 260 x 130mm
DR168MS	16 Way 80A RCD Incomer	402 x 260 x 130mm

Split Load Consumer Units



Code	Description	Size W x H x D (mm)
DS0816MS	8 Way 100A Switch + 63A RCD	294 x 260 x 130mm
DS0818MS	8 Way 100A Switch + 80A RCD	294 x 260 x 130mm
DS1016MS	10 Way 100A Switch + 63A RCD	330 x 260 x 130mm
DS1018MS	10 Way 100A Switch + 80A RCD	330 x 260 x 130mm
DS1216MS	12 Way 100A Switch + 63A RCD	366 x 260 x 130mm
DS1218MS	12 Way 100A Switch + 80A RCD	366 x 260 x 130mm
DS1416MS	14 Way 100A Switch + 63A RCD	402 x 260 x 130mm
DS1418MS	14 Way 100A Switch + 80A RCD	402 x 260 x 130mm
DS1616MS	16 Way 100A Switch + 63A RCD	438 x 260 x 130mm
DS1618MS	16 Way 100A Switch + 80A RCD	438 x 260 x 130mm
DS1818MS	18 Way 100A Switch + 80A RCD	474 x 260 x 130mm

CONTACTUM

Circuit Protection

Flexible High Integrity Split Load Dual RCD Consumer Units



Code	Description	Size W x H x D (mm)
DDS06166MS	6 Way 100A Switch + 2 x 63A RCD	294 x 260 x 130mm
DDS08166MS	8 Way 100A Switch + 2 x 63A RCD	330 x 260 x 130mm
DDS10166MS	10 Way 100A Switch + 2 x 63A RCD	366 x 260 x 130mm
DDS12166MS	12 Way 100A Switch + 2 x 63A RCD	402 x 260 x 130mm
DDS16166MS	16 Way 100A Switch + 2 x 63A RCD	474 x 260 x 130mm
DDS06188MS	6 Way 100A Switch + 2 x 80A RCD	294 x 260 x 130mm
DDS08188MS	8 Way 100A Switch + 2 x 80A RCD	330 x 260 x 130mm
DDS10188MS	10 Way 100A Switch + 2 x 80A RCD	366 x 260 x 130mm
DDS12188MS	12 Way 100A Switch + 2 x 80A RCD	402 x 260 x 130mm
DDS16188MS	16 Way 100A Switch + 2 x 80A RCD	474 x 260 x 130mm

Populated Consumer Units



Code	Description	Size W x H x D (mm)
DDS06166MS-P01	6 Way 100A Switch + 2 x 63A RCD c/w 1 x 40A, 2 x 32A, 1 x 16A, 2 x 6A MCB's	294 x 260 x 130mm
DDS06188MS-P01	6 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 2 x 32A, 1 x 16A, 2 x 6A MCB's	294 x 260 x 130mm
DDS08166MS-P01	8 Way 100A Switch + 2 x 63A RCD c/w 1 x 40A, 3 x 32A, 1 x 16A, 2 x 6A MCB's	330 x 260 x 130mm
DDS08188MS-P01	8 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 3 x 32A, 1 x 16A, 2 x 6A MCB's	330 x 260 x 130mm
DDS10166MS-P01	10 Way 100A Switch + 2 x 63A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 3 x 6A MCB's	366 x 260 x 130mm
DDS10166MS-P02	10 Way 100A Switch + 2 x 63A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 2 x 6A MCB's + 1 x 6A RCBO	366 x 260 x 130mm
DDS10188MS-P01	10 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 3 x 6A MCB's	366 x 260 x 130mm
DDS10188MS-P02	10 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 2 x 6A MCB's + 1 x 6A RCBO	366 x 260 x 130mm
DDS12188MS-P01	12 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 3 x 6A MCB's	402 x 260 x 130mm
DDS14188MS-P01	14 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 3 x 6A MCB's + 1 x 6A RCBO & 3 Blank Ways	438 x 260 x 130mm
DDS16188MS-P01	16 Way 100A Switch + 2 x 80A RCD c/w 1 x 40A, 4 x 32A, 2 x 16A, 3 x 6A MCB's	474 x 260 x 130mm
DD101MS-P01	10 Way 100A Switch + 1 x 40A, 2 x 32A, 1 x 16A + 2 x 6A RCBO's & 4 Blank Ways	294 x 260 x 130mm
DR026MS-P01	Garage Unit 2 Way 63A RCD + 1 x 16A, 1 x 6A MCB's	150 x 260 x 130mm
DSPE1MS	40A RCD Shower Enclosure - No O/G Ways	114 x 260 x 130mm
DSPE2MS	63A RCD Shower Enclosure - 1 O/G 50A MCB	150 x 260 x 130mm
DTDDR001MS	100A Time Delay RCD Incomer TT/CU	114 x 260 x 130mm

Defender Devices

Empty Enclosures



Metal Enclosures Earth/Neutral

DME02MS	IP4X 2 Mod 114 x 260 x 130mm
DME04MS	IP4X 4 Mod 150 x 260 x 130mm
DME06MS	IP4X 6 Mod 186 x 260 x 130mm
DME08MS	IP4X 8 Mod 222 x 260 x 130mm
DME012MS	IP4X 12 Mod 294 x 260 x 130mm
DME014MS	IP4X 14 Mod 330 x 260 x 130mm
DME016MS	IP4X 16 Mod 366 x 260 x 130mm
DME018MS	IP4X 18 Mod 402 x 260 x 130mm
DME020MS	IP4X 20 Mod 438 x 260 x 130mm
DME022MS	IP4X 22 Mod 474 x 206 x 130mm

RCDs



Double Pole RCD Devices

CPR25	25A 30mA DP RCD
CPR40	40A 30mA DP RCD
CPR63	63A 30mA DP RCD
CPR80	80A 30mA DP RCD
CPR100	100A 30mA DP RCD

MCBs



MCB Devices B Type

CPB06	6A 6kA Type B SP MCB
CPB10	10A 6kA Type B SP MCB
CPB16	16A 6kA Type B SP MCB
CPB20	20A 6kA Type B SP MCB
CPB25	25A 6kA Type B SP MCB
CPB32	32A 6kA Type B SP MCB
CPB40	40A 6kA Type B SP MCB
CPB50	50A 4.5kA Type B SP MCB
CPB63	63A 4.5kA Type B SP MCB

RCBOs



RCBO Devices B Type

CPBR0606B	6A 6kA Type B SP RCBO
CPBR0610B	10A 6kA Type B SP RCBO
CPBR0616B	16A 6kA Type B SP RCBO
CPBR0620B	20A 6kA Type B SP RCBO
CPBR0632B	32A 6kA Type B SP RCBO
CPBR0640B	40A 6kA Type B SP RCBO
CPBR0650B	50A 6kA Type B SP RCBO

Isolators



Double Pole Isolators

CPD40	40A Double Pole Isolator
CPD63	63A Double Pole Isolator
CPD100	100A Double Pole Isolator

Contactors



Installation Contactors

COA20-20/230	20A 230V 2N/O (1 Mod)
COA25-40/230	25A 230V 4N/O (2 Mods)
COA40-20/230	40A 230V 2N/O (3 Mods)
COA40-40/230	40A 230V 4N/O (3 Mods)
COA63-20/230	63A 230V 2N/O (3 Mods)
COA63-40/230	63A 230V 4N/O (3 Mods)

Time Switches



Digital Timing Devices

TSD1T 7 Day 24 Hour 1 Channel 2 Module

TSD2T 7 Day 24 Hour 2 Channel 2 Module

TSD3 7 Day 24 Hour 1 Channel 1 Module

Analogue Timing Devices

TSAQ1 24 Hour 1 Channel 3 Module

TSAQ2 7 Day 1 Channel 3 Module

Staircase Timing Device

TSSL1 1 Channel 1 Module

Bell Transformer & Sensor



Bell Transformer

TSBT2 Bell Transformer 1A 8VA Output

Photo Electrical Light Sensor

TSPE1 20A 230V 2N/O (1 Mod)

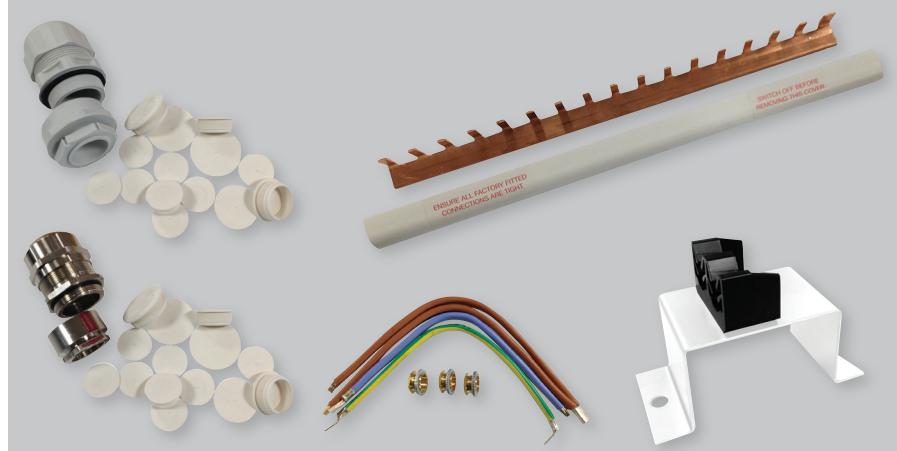
MCB Accessories



Locking Device

CPA10	MCB/RCBO Toggle Locking Device
CPBBL	MCB Blank

Accessories



Accessories

DCA01 1/4 Turn Camlock Accessory

DCA02 Key Lock Camlock Accessory

DCA20 AMD3 Membrane Grommet Kit

DCA21 40/32mm Tails Red Kit Metal

DCA22 40/32mm Tails Red Kit Plastic

DCA23 25mm Tail Retention Bracket

DCA24 Defender C/U Stacking & Link (DDS) Kit

DCA25 Defender C/U Stacking & Link (DD) Kit

DCA30 Defender 14 Mod Spare Busbar and Cover

DCA31 Defender 22 Mod Spare Busbar and Cover



CONTACTUM

Contactum Ltd, Victoria House, 2 Blackmoor Lane,
Croxley Green Business Park, Watford WD18 8GA
T: 020 8208 7400 E: sales@contactum.co.uk www.contactum.co.uk