## Consumer Unit

 Design 10 High Integrity 63A ( $\mathrm{I}_{\mathrm{nA}}$ )
## For the distribution of power in a residential application, conforming to BS EN 61439-3 including Annex ZB (16kA rating).



The range of consumer units with a 63A rated current ( $I_{n A}$ ) have been designed for installations where the upstream overcurrent protection device (OCPD) is rated at 63A or below.

Design 10 consumer unit is an entry level board designed for all applications and allows compliance with BS 7671:2018;

Regulation 421.1.201 within domestics (household) applications consumer units and similar assemblies shall comply with BS EN 61439-3 and shall have their enclosure manufactured from a non-combustible material.

Regulation 411.3.3 additional protection by means of a 30 mA RCD.
Regulation 314.1\&2 segregation of circuits to avoid danger and minimise inconvenience in the event of a fault.
Regulation 522.6.202 protection of wiring concealed in walls or partitions with RCD 30mA. Regulation 531.3.3 Selection of appropriate RCD. Type A RCCBs can detect and respond to both AC and pulsating DC components.

Regulation 536.4.3.2 \& 536.4.202 overload protection of switches and RCCBs. For installations where the upstream overcurrent protection is less than or equal to 63 A .

High integrity boards are designed to allow dedicated circuits to have individual 30 mA protection to reduce any risk of nuisance tripping, whilst the rest of the installation is separated across two RCCBs.


VML616CU

| Description | Size | Cat ref. |
| :--- | :--- | :--- |
| 10 Way High Integrity Split Load Configurable 63A Main Switch 2*63A 30mA Type A RCCB | 5 | VML610CU |
| 12 Way High Integrity Split Load Configurable 63A Main Switch 2*63A 30mA Type A RCCB | 6 | VML612CU |
| 16 Way High Integrity Split Load Configurable 63A Main Switch 2*63A 30mA Type A RCCB | 7 | VML616CU |
| $8+10$ Way High Integrity Dual Row Configurable 63A Main Switch 2*63A 30mA Type A RCCB | $4(2)$ | VML60810CU |
| $12+14$ Way High Integrity Dual Row Configurable 63A Main Switch 2*63A 30mA Type A RCCB | 5(2) | VML61214CU |
| $18+20$ Way High Integrity Dual Row Configurable 63A Main Switch 2*63A 30mA Type A RCCB | 7(2) | VML61820CU |

## Features \& Benefits

Type A RCCBs for general purpose circuits and circuits containing equipment incorporating electronic components.
High integrity layout allows RCBOs to be fitted separate to the RCCBs
for reduction of nuisance tripping on essential circuits and splitting earth leakage across multiple RCDs
-- Rear Knockouts for ease of cable entry - Cable protector plate (VM02CE) available as accessory
Front cover retained screws - Prevents loss during installation Full metal DIN rail - Secure and stable attachment of devices

Quick release clip on MCB/RCBO - Allows removal of MCB/RCBO with busbar still in place
Optimised cabling space - DIN rail position allows maximum cabling space.
Top mounted terminal rail for each row makes the wiring of the neutral and earth connections neat and simple.
Torque settings displayed inside front cover - easily accessible to electrician during installation and maintenance.

Technical Characteristics


Devices

| MCB 6kA 6A to 63A B Curve | MTN ${ }^{* * *}$ |
| :--- | :--- |
| Single Pole, Single Mod Reduced Height RCBO 6kA, 6A - 32A Type A | ADA3 ${ }^{* *}$ G |
| Single Pole, Single MOD Standard Height RCBO 40A, 45A Type A | ADA1**G |

## Design 10 Dimensions (mm)

## Enclosure Size

|  |  | 5 | 6 | 7 | 4(2) | 5(2) | 7(2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Height | 246 | 246 | 246 | 486 | 486 | 486 |
|  | Width | 370 | 406 | 478 | 299 | 370 | 478 |
|  | Depth 1 | 83 | 83 | 83 | 83 | 83 | 83 |
|  | Depth 2 <br> Number of Knockouts | 100 | 100 | 100 | 100 | 100 | 100 |
|  | Top Face $30 \times 25$ (mm) | 2 | 2 | 2 | 2 | 2 | 2 |
|  | Top Face $40 \times 30$ (mm) | 4 | 6 | 6 | 4 | 4 | 6 |
|  | Back $100 \times 50$ (mm) | 3 | 3 | 3 | 2 | 6 | 6 |
| $\square$ | Bottom Face $30 \times 25$ (mm) | 4 | 5 | 5 | 4 | 4 | 5 |



