

18th Edition Consumer Unit Regulations

The 18th Edition of BS 7671 gave us some additional considerations for the selection of consumer units. 536.4.202 states that we can no longer base the selection of our RCD's on the diversity factor of the downstream circuits solely. There are three methods outlined in BS 7671 to decide on the overload device needed. The consumer unit we are offering below has 100A RCD's meaning that this will be suitable to be installed in any single-phase applications up to 100A.

RCD selection has also been a huge area of change in the 18th edition, we now have to consider the variety of RCD's available and choose the correct specification for the installation as per regulation 531.3.3 of BS7671:2018.

| RCD Type | Characteristics |
|----------|--|
| AC | Trips on AC leakage only |
| A | As AC Type plus pulsating DC leakage |
| F | As A type plus high frequency residual current |
| B | As Type F plus smooth DC leakage |

The consumer unit below contains A Type RCD's as these are more suitable for today's domestic market with the ever-expanding amount of potential DC leakage current, which is in line with regulation 531.3.3 of BS7671:2018.



Part No. CUL552HI



TYPE A
100A
RCD'S

- 10 way consumer unit with 100A main switch
- 10 x 6kA MCB's Type B included: 3 x 6A, 2 x 16A, 4 x 32A and 1 x 40A
- Fully compliant to all parts of the BSEN61439 series
- Fully compliant to the 18th edition of the wiring regulations
- Non-combustible, metal clad consumer unit fully compliant to BSEN61439-3
- Knockouts on top, bottom rear and both sides
- Integrated spirit level for a quick and easy installation
- Lot's of space inside for easy wiring
- Numbered N/PE terminals with colour coding
- Earth and Neutral terminal block is easily removed by pressing the fixing clip on both side (patented)
- Comes complete with a Type 2 surge device fed from a 32A MCB
- The surge device is suitable for all types of earthing arrangements (TN-S, TNC-S, PME & TT)
- The SPD has status indication on both live and neutral parts
- The SPD has pluggable, replacement modules for ease of replacement
- The SPD comes with a 10 year guarantee

Data Sheet

METAL CONSUMER UNITS



- Metal Clad Consumer Unit
- Complete with Main Switch
- Integrated Spirit Level
- Designed to BS EN 61439
- Accepts MCB's or RCBO's
- Compatible with Surge Protection Devices range of SPD's

| Size | Part Number | Main Switch Rating | Dimensions (cm) |
|--------|-------------|--------------------|-------------------------|
| 2 Way | CUL2M | 63 Amp | L 14 x H 24.5 x D 8.5 |
| 6 Way | CUL6M | 100 Amp | L 21 x H 24.5 x D 8.5 |
| 8 Way | CUL8M | 100 Amp | L 25 x H 24.5 x D 8.5 |
| 12 Way | CUL12M | 100 Amp | L 32 x H 24.5 x D 8.5 |
| 14 Way | CUL14M | 100 Amp | L 35.5 x H 24.5 x D 8.5 |
| 16 Way | CUL16M | 100 Amp | L 39.5 x H 24.5 x D 8.5 |
| 20 Way | CUL20M | 100 Amp | L 46.5 x H 24.5 x D 8.5 |

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------|---------------|
| Standard | BS EN 61439-3 |
| Rated Voltage | 230V AC |
| Rated Insulated Voltage | 500V AC |
| Rated Impulse Withstand Voltage | 4kV |
| Rated Frequency | 50/60Hz |
| Rated Current of the Assembly | 100A |
| IP Rating | IP30 |
| Mechanical Impact Protection | IK05 |

Data Sheet

MCB's



- 6kA MCB
- Available from 6A-63A
- B Curve Rated
- Designed to BS EN 60898-1

| RATING | PART No. |
|--------|----------|
| 6 Amp | CUB106 |
| 10 Amp | CUB110 |
| 16 Amp | CUB116 |
| 20 Amp | CUB120 |
| 32 Amp | CUB132 |
| 40 Amp | CUB140 |
| 50 Amp | CUB150 |
| 63 Amp | CUB163 |

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------|-------------------|
| Standard | BS EN 60898-1 |
| Short Circuit Breaking Capacity | 6kA |
| Rated Voltage | 240/415V AC |
| Rated Insulated Voltage | 415V |
| Rated Impulse Withstand Voltage | 5kV |
| Operating Characteristic | B Curve |
| Rated Frequency | 50/60Hz |
| IP Rating | IP20 |
| Installation Method | 35mm Din Rail |
| Terminal Capacity | 16mm ² |
| Terminal Torque | 2.0nm |
| Number of Poles | 1 Pole |
| Width | 18mm |

Data Sheet

RCD's



CURA100-2P30



CURA100-4P30

- 30mA RCD
- 100 Amp
- Type A
- Designed to BS EN 61008-1

| RATING | PART No. |
|--------|--------------|
| 2 Pole | CURA100-2P30 |
| 4 Pole | CURA100-4P30 |

TECHNICAL SPECIFICATIONS

| | |
|---|--------------------------------------|
| Standard | BS EN 61008-1 |
| Short Circuit Breaking Capacity | 10kA |
| Rated Voltage | 240V AC for 1P+N or 415V AC for 2P+N |
| RCD Type | Type A |
| Rated Residual Operating Current $I_{\Delta n}$ | 30 mA |
| Rated residual non-operating current | 0.5 X $I_{\Delta n}$ |
| Residual current off-time at $I_{\Delta n}$ | $\leq 0.1s$ |
| Rated making capacity, I_m | 630A |
| Rated Frequency | 50/60Hz |
| IP Rating | IP20 |
| Installation Method | 35mm Din Rail |
| Terminal Capacity | 35mm ² |
| Terminal Torque | 2.5nm |
| Number of Poles | 1 Pole + Neutral or 3 Pole + Neutral |
| Width | 35.7mm for 1P+N or 71.6 for 3P+N |

Data Sheet

MAIN SWITCH



- 2 Pole Main Switch
- 63 Amp and 100 Amp Available
- Designed to BS EN 60947-3

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------|---------------|
| Standard | BS EN 60947-3 |
| Number of Poles | 2 Pole |
| Rated Current | 63A or 100A |
| Rated Voltage | 400V AC |
| Rated Insulated Voltage | 415V |
| Rated Impulse Withstand Voltage | 4kV |
| Rated Frequency | 50/60Hz |
| IP Rating | IP30 |
| Width | 36mm |