

Technical Data: Metal Clad Garage Units



#### **Important Safety Notice**

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

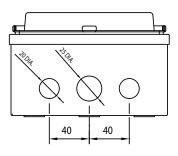
All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation.

All connections should be checked periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS

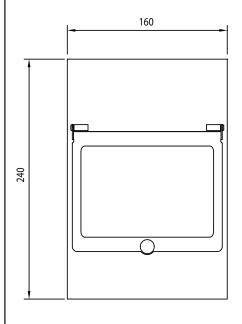


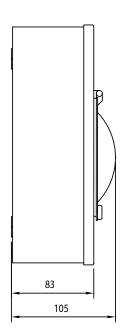
#### **Dimensions**

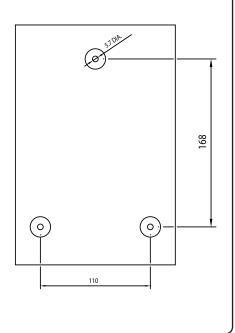


#### **Technical Data**

- IP54
- Amendment 3 Compliant
- Earth and neutral terminals provided
- Epoxy powder coated RAL 7035







#### **Additional Technical Data**

• GRG16M: 63A RCCB + 6A & 16A MCB

GRG32M: 63A RCCB + 6A & 32A MCB

GRGISOM: Fitted with 100A Mainswitch | Space for up to 3 MCBs / RCBOs

GRG5M: 5 Module Empty Enclosure

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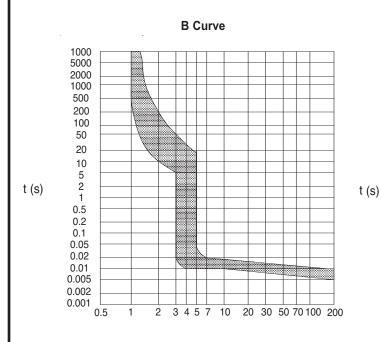
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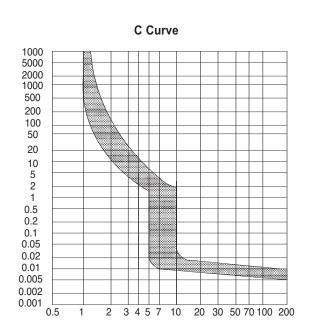
## MCB UB1 B & C Curve 1 Pole 6kA

| Product Range  |  |   |
|--|--|---|
| Certification Characteristics Curves Rated Current (In) Rated Voltage (Ue) Rated Frequency Rated impulse withstand Voltage (Uimp) Energy Limiting Class Number of Poles Rated Short-Circuit Capacity (Icn) Operating Temperature Humidity Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree Overvoltage Category III Terminal protection Mounting Terminal Type Terminal Capacity Terminal Type Tunnel Terminal Capacity   | Product Range                          | EUB1                                      |
| Characteristics Curves Rated Current (In) 6, 10, 16, 20, 25, 32, 40, 50 & 63A Rated Voltage (Ue) Rated Frequency Sol/60Hz Rated impulse withstand Voltage (Uimp) Energy Limiting Class Number of Poles 1 Rated Short-Circuit Capacity (Icn) Operating Temperature Altitude Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree 2 Overvoltage Category III Terminal protection Mounting Terminal Type Tunnel Terminal Capacity 1.0-25mm²  | Standard (s)                           | IEC 60898, EN 60898                       |
| Rated Current (In) Rated Voltage (Ue) Rated Frequency Sol/60Hz Rated impulse withstand Voltage (Uimp) Energy Limiting Class Number of Poles Rated Short-Circuit Capacity (Icn) Operating Temperature Humidity Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree Overvoltage Category Ill Terminal protection Mounting Terminal Type Tunnel Terminal Capacity  10, 16, 20, 25, 32, 40, 50 & 63A AC 230(240) Ac 240 Ac 230(240) Ac 240 Ac 230(240) Ac 240 Ac 230(240) Ac 240 Ac 230(240) Ac 250 Ac | Certification                          | CE, SEMKO                                 |
| Rated Voltage (Ue) Rated Frequency So/60Hz Rated impulse withstand Voltage (Uimp) Energy Limiting Class Number of Poles Rated Short-Circuit Capacity (Icn) Operating Temperature Altitude Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree Overvoltage Category III Terminal protection Mounting Somm DIN Rail Terminal Type Tunnel Terminal Capacity  AkV Energy Limiting GkA Operating Temperature -5° to 40°C* Not exceeding 2000 metres Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree 2 Overvoltage Category III Terminal protection IP20 Mounting Terminal Type Tunnel Terminal Capacity  | Characteristics Curves                 | B,C                                       |
| Rated Frequency Rated impulse withstand Voltage (Uimp)  Energy Limiting Class Number of Poles 1 Rated Short-Circuit Capacity (Icn) Operating Temperature Altitude Humidity Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree 2 Overvoltage Category III Terminal protection Mounting Somm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²  | Rated Current (In)                     | 6, 10, 16, 20, 25, 32, 40, 50 & 63A       |
| Rated impulse withstand Voltage (Uimp)  Energy Limiting Class  Number of Poles  Rated Short-Circuit Capacity (Icn)  Operating Temperature  Altitude  Not exceeding 2000 metres  Humidity  Not exceeding 50% at 40°C and 90% at 20°C  Pollution Degree  2  Overvoltage Category  III  Terminal protection  Mounting  35mm DIN Rail  Terminal Type  Tunnel  Terminal Capacity  1.0-25mm²   | Rated Voltage (Ue)                     | AC 230(240)                               |
| Energy Limiting Class  Number of Poles  Rated Short-Circuit Capacity (Icn)  Operating Temperature  Altitude  Not exceeding 2000 metres  Humidity  Not exceeding 50% at 40°C and 90% at 20°C  Pollution Degree  2  Overvoltage Category  III  Terminal protection  Mounting  35mm DIN Rail  Terminal Type  Tunnel  Terminal Capacity  1.0-25mm²   | Rated Frequency                        | 50/60Hz                                   |
| Number of Poles Rated Short-Circuit Capacity (Icn)  Operating Temperature Altitude Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree 2 Overvoltage Category III Terminal protection IP20 Mounting 35mm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²   | Rated impulse withstand Voltage (Uimp) | 4kV                                       |
| Rated Short-Circuit Capacity (Icn)  Operating Temperature  Altitude  Humidity  Not exceeding 50% at 40°C and 90% at 20°C  Pollution Degree  Overvoltage Category  Terminal protection  Mounting  Terminal Type  Terminal Capacity  Akai  Fig. 6kA  Not exceeding 2000 metres  Not exceeding 50% at 40°C and 90% at 20°C  Pollution Degree  1  2  Overvoltage Category  III  Terminal protection  IP20  Tunnel  Terminal Type  Tunnel  Terminal Capacity  1.0-25mm²   | Energy Limiting Class                  | 3   |
| Operating Temperature  Altitude  Not exceeding 2000 metres  Humidity  Not exceeding 50% at 40°C and 90% at 20°C  Pollution Degree  2 Overvoltage Category  III  Terminal protection  Mounting  35mm DIN Rail  Terminal Type  Tunnel  Terminal Capacity  -5° to 40°C*  Not exceeding 50% at 40°C and 90% at 20°C  2  Divide the protection of the | Number of Poles                        | 1   |
| Altitude Not exceeding 2000 metres Humidity Not exceeding 50% at 40°C and 90% at 20°C Pollution Degree 2 Overvoltage Category III Terminal protection IP20 Mounting 35mm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²   | Rated Short-Circuit Capacity (Icn)     | 6kA                                       |
| Humidity     Not exceeding 50% at 40°C and 90% at 20°C       Pollution Degree     2       Overvoltage Category     III       Terminal protection     IP20       Mounting     35mm DIN Rail       Terminal Type     Tunnel       Terminal Capacity     1.0-25mm²  | Operating Temperature                  | -5° to 40°C*                              |
| Pollution Degree 2 Overvoltage Category III Terminal protection IP20 Mounting 35mm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²   | Altitude                               | Not exceeding 2000 metres                 |
| Overvoltage Category III Terminal protection IP20 Mounting 35mm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²  | Humidity                               | Not exceeding 50% at 40°C and 90% at 20°C |
| Terminal protection IP20  Mounting 35mm DIN Rail  Terminal Type Tunnel  Terminal Capacity 1.0-25mm²  | Pollution Degree                       | 2   |
| Mounting 35mm DIN Rail Terminal Type Tunnel Terminal Capacity 1.0-25mm²  | Overvoltage Category                   | III                                       |
| Terminal Type Tunnel Terminal Capacity 1.0-25mm²   | Terminal protection                    | IP20                                      |
| Terminal Capacity 1.0-25mm²  | Mounting                               | 35mm DIN Rail                             |
| ·  | Terminal Type                          | Tunnel                                    |
| Recommended Terminal Torque 2.0Nm  | Terminal Capacity                      | 1.0-25mm²                                 |
| l l  | Recommended Terminal Torque            | 2.0Nm                                     |



\* Average not exceeding 35°C over a 24 hour period





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## Technical Data: Metal Clad Garage Units

# RCCB EUR1 2 & 4 Pole 10kA

| Product Range                          | EUR1                                      |
|--|---|
| Standard (s)                           | IEC 61008, EN 61008                       |
| Туре                                   | AC & A **                                 |
| Certification                          | CE, SEMKO                                 |
| Rated Current (In)                     | 25, 40, 63, 80A                           |
| Rated Residual Operating Current I∆n   | 30mA, 100mA                               |
| Standard Tripping Time 1 x I∆n         | ≤ 300ms                                   |
| Standard Tripping Time 5 x I∆n         | ≤ 40ms                                    |
| Rated Voltage (Ue)                     | AC 230(240)/400(415)V                     |
| Rated Frequency                        | 50/60Hz                                   |
| Rated impulse withstand Voltage (Uimp) | 4kV                                       |
| Number of Poles                        | 4   |
| Rated Short-Circuit Capacity (inc)     | 10kA                                      |
| Operating Temperature                  | -5° to 40°C*                              |
| Altitude                               | Not exceeding 2000 metres                 |
| Humidity                               | Not exceeding 50% at 40°C and 90% at 20°C |
| Pollution Degree                       | 2   |
| Terminal Protection                    | IP20                                      |
| Mounting                               | 35mm DIN Rail                             |
| Terminal Type                          | Tunnel                                    |
| Terminal Capacity                      | 1.5-25mm²                                 |
| Recommended Terminal Torque            | 2.0Nm                                     |
|  |   |



## Mainswitch / isolator ISO63-2 & ISO100-2 2 Pole

| ISO63-2 & ISO-100-2                       |
|---|
| IEC60947-3, EN 60947-3                    |
| CE, SEMKO                                 |
| 63 & 100A                                 |
| 63 & 100A                                 |
| AC 230(240)/400(415)V                     |
| 50/60Hz                                   |
| 6kV                                       |
| 2   |
| 500V                                      |
| AC-22B                                    |
| -5° to 40°C*                              |
| Not exceeding 2000 metres                 |
| Not exceeding 50% at 40°C and 90% at 20°C |
| 3   |
| IP20                                      |
| 35mm DIN Rail                             |
| Tunnel                                    |
| 2.5-35mm²                                 |
| 2.0Nm                                     |
|   |



<sup>\*</sup> Average not exceeding 35°C over a 24 hour period

\*\* Only available in 2 pole 30mA