

# Catalogue No: **MOD6RCBO1-16-30-AL**

## RCBO MOD6 1P+N 6kA 16A C CURVE 30mA TYPE A LONGBODY

Power Distribution and Protection > Circuit Breakers > Miniature Circuit Breakers and Earth Leakage Protection (RCDs and RCBOs) > MOD6 Residual Current Device > MOD6 RCBO1 6kA Panelboard Model - 1 Pole Width (Longbody with Pigtail) > Type A



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Approval No NSW17482 or RCM

Representative Photo Only  
(actual product may vary based on configuration selections)

### SPECIFICATIONS

|   |   |
|---|---|
| Product Series  | MOD6  |
| Component Type Power Distribution & Protection                    | RCBO  |
| Trip Curve  | C   |
| RCD Type, AS/NZS 61008/61009                                      | A   |
| $I_{\Delta c}$ , Rated Conditional Residual Short-Circuit Current | 6 kA  |
| Tripping Time at $I_{\Delta n}$ , Instantaneous                   | <40 ms  |
| $I_n$ , Rated Current at 30°C                                     | 16 A @30°C                                    |
| $I_{\Delta n}$ , Rated Leakage Current                            | 30 mA   |
| Neutral Pole Protected  | No  |
| Poles   | 1P + N  |
| Rated Frequency   | 50 / 60 Hz                                    |
| $U_n$ , Nominal Operational Voltage, AC                           | 240 V AC                                      |
| $U_i$ , Rated Insulation Voltage @ Pollution Degree 2             | 500 V   |
| $U_{bmin}$ , Service Voltage, AC, Min                             | 195 V AC                                      |
| $U_{bmax}$ , Service Voltage, AC, Max                             | 255 V AC                                      |
| Selectivity Class (IEC 60898)                                     | A   |
| $I_m$ , Rated Make/Break Capacity                                 | 500 A   |
| $I_{\Delta m}$ , Rated Residual Make/Break Capacity               | 6000 A  |
| $I_{nc}$ , Rated Conditional Short Circuit Current                | 6 kA  |
| $I_{\Delta c}$ , Rated Conditional Residual Short-Circuit Current | 6000 A  |
| $I_{cn}$ , Rated Short Circuit Capacity                           | 6 kA  |
| Isolator Application, IEC 60947-2                                 | Yes   |
| Shock Duration (Max.)   | 5 ms  |
| $U_i$ , Rated Insulation Voltage                                  | 440 V (rms)                                   |
| Approval(s)   | N17482  |
| Standards Compliance  | AS/NZS 61009<br>IEC 60077-16-3<br>IEC 60947-2 |
| Insulation Resistance   | 1000 MΩ                                       |



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|   |                           |
|---|---------------------------|
| Dielectric Strength                             | 2500V V AC                |
| Electrical Service Life at Un, In               | 10000 cycles              |
| Mechanical Service Life                         | 20000 cycles              |
| Shock Acceleration (Max.)                       | 40 g                      |
| Shock Rating                                    | IEC 60077-16-3            |
| IP Rating, Inside                               | IP40                      |
| Conductor Entry Position                        | Bottom                    |
| IP Rating, Outside                              | IP20                      |
| Flammability Rating (UL94)                      | UL 94 V-2                 |
| Wire / Conductor Size, Flex Cable, In, Min      | 1 mm <sup>2</sup> In      |
| Wire / Conductor Size, Rigid Cable, Top, Max    | 25 mm <sup>2</sup> Top    |
| Wire / Conductor Size, Flex Cable, Out, Min     | 1 mm <sup>2</sup> Out     |
| Package Quantity                                | 1 qty                     |
| Wire / Conductor Size, Rigid Cable, In, Min     | 1 mm <sup>2</sup> In      |
| Wire / Conductor Size, Flex Cable, Top, Max     | 16 mm <sup>2</sup> Top    |
| Wire / Conductor Size, Rigid Cable, Out, Min    | 1 mm <sup>2</sup> Out     |
| Wire / Conductor Size, Rigid Cable, Bottom, Max | 35 mm <sup>2</sup> Bottom |
| Wire / Conductor Size, Flex Cable, Bottom, Max  | 25 mm <sup>2</sup> Bottom |
| Tightening Torque, Top, Nominal                 | 3 Nm                      |
| Tightening Torque, Bottom, Nominal              | 4.5 Nm                    |
| Busbar System, Bottom                           | Fork<br>Pin               |
| Trip-Free Mechanism                             | Yes                       |
| Mounting  | DIN-35 Rail Mount         |
| Sealable  | Yes                       |
| Centre Trip Position                            | No                        |
| Height  | 125 mm                    |
| Width   | 18 mm                     |
| Depth   | 76 mm                     |
| Weight  | 0.235 kg                  |
| Neutral Pole Switched                           | No                        |
| Operating Temperature, Min                      | -5 °C min                 |
| Operating Temperature, Max                      | 55 °C max                 |
| Storage Temperature, Min                        | -25 °C min                |
| Storage Temperature, Max                        | 70 °C max                 |
| Relative Humidity, Max                          | 95 %RH                    |
| Vibration Acceleration (Max.)                   | 2 m/s <sup>2</sup>        |
| Vibration Rating                                | IEC 60068-2-6             |
| Certifications                                  | CE<br>RCM                 |

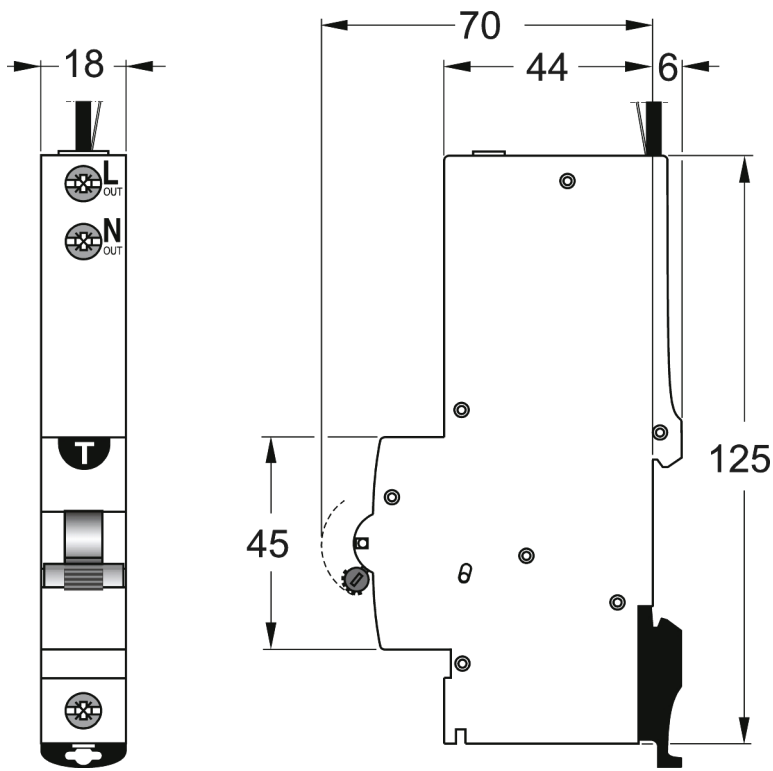
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| REFERENCES                                  |  |
|---|--|
| IECEX Certificate                           | -  |
| Supplier Declaration of Conformity:         | <a href="#">MOD6RCBO1xxxxx_Supplier Declaration of Conformity (SDoC)</a> |
| Installation Guide:                         | -  |
| User Manual:                                | -  |
| Manufacturer Datasheet:                     | -  |
| Manufacturer Catalogue & Product Selection: | -  |



Dimension Diagram

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