

## INDUSTRIAL COMPONENT DATA

**FRBM6-C40/1N/003-G/A 177858 Y7-177858 EATON ELECTRIC RCD/MCB combination switch, 40A, 30mA, miniature circuit-breaker type C trip characteristic, 1pole+N, residual current circuit-breaker trip characteristic: G/A**

Brand: EATON - MOELLER | Manufacturer Part Number: FRBM6-C40/1N/003-G/A



|                 |                               |
|-----------------|-------------------------------|
| Manufacturer    | EATON - MOELLER               |
| MPN / Reference | FRBM6-C40/1N/003-G/A          |
| Catalog number  | Y7-177858                     |
| Category        | Earth leakage circuit breaker |
| Minimum order   | 1 Pcs                         |
| Document ID     | EO-A19BB400FA                 |
| Generated       | 2026-08-06                    |

**Product Overview**

RCD/MCB combination switch, 40A, 30mA, miniature circuit-breaker type C trip characteristic, 1pole+N, residual current circuit-breaker trip characteristic: G/A

FRBM6-C40/1N/003-G/A

Eaton Moeller series xEffect - FRBM6/M RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB combination, 40A, 30mA, MCB C trip char., 1pole+N, RCCB trip char.: G/A

High-quality residual current device/miniature circuit breaker combination, line voltage-independent, contact position indicator red - green, terminal rear plug protection, tri-stable slide catch - enables removal from existing busbar system, comprehensive range of accessories suitable for subsequent installation, wide range of rated fault currents, rated operational currents up to 40 A, tripping characteristics B, C, D, rated breaking capacity 6 kA, suitable for outdoor use (on-site power and outdoor distribution board) up to -25 °C

## STRUCTURED PRODUCT DATA

**Technical Specifications**

No structured technical attributes are currently available. Submit an RFQ for technical review.

**Classification & Catalog Path**

Catalog path EATON - MOELLER > Modular Switchgear - Tertiary and Differential

**Additional Product Information**

## General specifications

Product Name Eaton Moeller series xEffect - FRBM6/M RCBO - residual-current circuit breaker with overcurrent protection

Catalog Number 177858 Model Code FRBM6-C40/1N/003-G/A EAN 4015081724314 Product Length/Depth 80 mm

Product Height 75 mm Product Width 35 mm Product Weight 0.216 kg Compliances CE Marked

RoHS conform Certifications CE Delivery programme

Application Switchgear for industrial and advanced commercial applications Basic function Combined RCD/MCB devices

Number of poles Single-pole + N Number of poles (protected) 1 Number of poles (total) 2 Release characteristic C  
Amperage Rating 40 A Rated current 40 A Fault current rating 0.03 A Type RCBO Technical data - electrical  
Voltage type AC Voltage rating 240 V - 240 V Rated operational voltage (Ue) - max 240 V Rated insulation voltage (Ui) 500  
V Rated impulse withstand voltage (Uimp) 4 kV Frequency rating 50 Hz Leakage current type A Rated short-circuit breaking  
capacity (EN 60947-2) 0 kA Rated short-circuit breaking capacity (EN 61009) 6 kA Rated short-circuit breaking capacity (EN  
61009-1) 6 kA Rated short-circuit breaking capacity (IEC 60947-2) 0 kA Surge current capacity 3 kA Disconnection  
characteristic Short-time delayed Overvoltage category III Pollution degree 2 Technical data - mechanical  
Width in number of modular spacings 2 Built-in depth 75.5 mm Degree of protection IP20 Connectable conductor cross  
section (solid-core) - min 1 mm<sup>2</sup> Connectable conductor cross section (solid-core) - ma...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send EATON - MOELLER / FRBM6-C40/1N/003-G/A with the required quantity to [info@electricaonline.com](mailto:info@electricaonline.com) or use  
[electricaonline.com/request-quote](https://electricaonline.com/request-quote).

### GLOBAL OFFICES

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd  
Floor, JLT, Dubai

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requirements against the manufacturer documentation before purchase or installation.