

**RCD/MCB combination, 25 A, 30 mA, MCB trip characteristic: C, 3p+N,
RCD trip characteristic: A**

Part no. mRB4-25/3N/C/003-A
120678
EL Number 1654845
(Norway)

Similar to illustration

General specifications		
Product name		Eaton Moeller series xPole - mRB4/6 RCBO - residual-current circuit breaker with overcurrent protection
Part no.		mRB4-25/3N/C/003-A
EAN		4015081185085
Product Length/Depth		80 millimetre
Product height		75.5 millimetre
Product width		70 millimetre
Product weight		0.445 kilogram
Compliances		CE Marked RoHS conform
Certifications		CE
Product Tradename		xPole - mRB4/6
Product Type		RCBO - Residual-current circuit breaker with overcurrent protection
Product Sub Type		None
Delivery program		
Application		Switchgear for residential and commercial applications
Product range		mRB4
Basic function		Combined RCD/MCB devices
Product application		Switchgear for industrial and advanced commercial applications
Number of poles		Three-pole + N
Number of poles (protected)		4
Number of poles (total)		4
Tripping characteristic		C
Release characteristic		C
Rated current		25 A
Rated current of product range		6 - 25 Ampere
Fault current rating		0.03 A
Sensitivity type		Type A, pulse-current sensitive
Type		RCBO
Technical Data - Electrical		
Voltage type		AC
Voltage rating		400 V
Voltage rating at AC		230 V / 400 V
Rated operational voltage (Ue) - max		400 V
Rated insulation voltage (Ui)		500 V
Rated impulse withstand voltage (Uimp)		4 kV
Rated fault currents of product range		30, 100, 300 MilliAmpere
Impulse withstand current		Partly surge-proof, 250 A
Frequency rating		50 Hz
Leakage current type		A
Rated switching capacity		4.5 kA
Rated switching capacity (IEC/EN 60947-2)		4.5 kA
Rated switching capacity (IEC/EN 61009)		4.5 kA
Rated non-tripping current		0.5 x I Δ n

Rated short-circuit breaking capacity (EN 60947-2)		4.5 kA
Rated short-circuit breaking capacity (EN 61009)		4.5 kA
Rated short-circuit breaking capacity (EN 61009-1)		4.5 kA
Rated short-circuit breaking capacity (IEC 60947-2)		4.5 kA
Surge current capacity		0.25 kA
Disconnection characteristic		Undelayed
Tripping		Non-delayed
Back-up fuse		100 Ampere gL
Selectivity class		3
Pollution degree		2
Technical Data - Mechanical		
Frame		45 mm
Width in number of modular spacings		4
Device height		80 mm
Built-in depth		70 mm
Mounting style		Tri-stable slide catch - enables removal from existing busbar combination
Degree of protection		IP20
Degree of protection (built in)		IP40
Terminals (top and bottom)		Twin-purpose
Solid terminal capacities		1 - 25 Square Millimeter
Terminal protection		Busbar tag shroud to VBG4
Connectable conductor cross section (solid-core) - min		1 mm ²
Connectable conductor cross section (solid-core) - max		25 mm ²
Connectable conductor cross section (multi-wired) - min		1 mm ²
Connectable conductor cross section (multi-wired) - max		25 mm ²
Material thickness		2 mm
Climatic proofing		IEC 68-2: 25 °C - 55 °C at 90 % - 95 % humidity
Design verification as per IEC/EN 61439 - technical data		
Rated operational current for specified heat dissipation (In)		25 A
Heat dissipation per pole, current-dependent		0 W
Equipment heat dissipation, current-dependent		11.6 W
Static heat dissipation, non-current-dependent		0 W
Heat dissipation capacity		0 W
Ambient operating temperature - max		40 °C
Ambient operating temperature - min		-25 °C
Design verification as per IEC/EN 61439		
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
Additional information		
Current limiting class		3
Features		Concurrently switching N-neutral
Standards		IEC/EN 61009

Technical data ETIM 8.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])			
Number of poles (total)			4
Number of protected poles			4
Rated voltage		V	400
Rated insulation voltage Ui		V	500
Rated impulse withstand voltage Uimp		kV	4
Rated current		A	25
Rated fault current		A	0.03
Leakage current type			A
Current limiting class			3
Rated short-circuit breaking capacity according to EN 61009		kA	4.5
Rated short-circuit breaking capacity according to IEC 60947-2		kA	4.5
Rated short-circuit breaking capacity Icn according to EN 61009-1		kA	4.5
Disconnection characteristic			Undelayed
Surge current capacity		kA	0.25
Voltage type			AC
Frequency			50 Hz
Release characteristic			C
Concurrently switching neutral conductor			Yes
With interlocking device			No
Over voltage category			3
Pollution degree			2
Ambient temperature during operating		°C	-25 - 40
Width in number of modular spacings			4
Built-in depth		mm	70
Flush-mounted installation			No
Anti- nuisance tripping version			No
Degree of protection (IP)			IP20
Connectable conductor cross section solid-core		mm ²	1 - 25
Connectable conductor cross section multi-wired		mm ²	1 - 25