

# Spécifications



## Eaton 264306

Eaton Moeller series xPole - PFGM RCCB.  
Residual current circuit breaker (RCCB), 63A,  
4pole, 30mA, type AC

### Spécifications générales

<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PFGM RCCB
<b>CATALOG NUMBER</b>	264306
<b>MODEL CODE</b>	PFGM-63/4/003
<b>EAN</b>	4015082643065
<b>PRODUCT LENGTH/DEPTH</b>	76 mm
<b>PRODUCT HEIGHT</b>	80 mm
<b>PRODUCT WIDTH</b>	70 mm
<b>PRODUCT WEIGHT</b>	0.32 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC/EN 61008



Powering Business Worldwide

## Delivery program

### APPLICATION

- 3-phase application without N (190V AC phase-phase) not allowed
- Residual current circuit breaker for residential and commercial applications
- xPole - Switchgear for residential and commercial applications

<b>NUMBER OF POLES</b>	Four-pole
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<b>TRIPPING TIME</b>	Non-delayed
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<b>AMPERAGE RATING</b>	63 A
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<b>RATED SHORT-CIRCUIT STRENGTH</b>	10 kA
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<b>FAULT CURRENT RATING</b>	30 mA
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<b>SENSITIVITY TYPE</b>	AC current sensitive
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<b>IMPULSE WITHSTAND CURRENT</b>	Partly surge-proof 250 A
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### TYPE

- PFGM
- Residual current circuit breakers
- Type AC

## Technical Data - Electrical

<b>VOLTAGE RATING</b>	230 V AC / 400 V AC
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<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	400 V
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<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
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<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
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<b>RATED FAULT CURRENT - MIN</b>	0.03 A
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<b>RATED FAULT CURRENT - MAX</b>	0.03 A
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<b>FREQUENCY RATING</b>	50 Hz
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<b>SHORT-CIRCUIT RATING</b>	63 A (max. admissible back-up fuse)
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<b>LEAKAGE CURRENT TYPE</b>	AC
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<b>RATED RESIDUAL MAKING AND BREAKING CAPACITY</b>	630 A
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<b>ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX</b>	40 A gG/gL
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<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	10 kA
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<b>SURGE CURRENT CAPACITY</b>	0.25 kA
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<b>TEST CIRCUIT RANGE</b>	340 V AC - 456 V AC
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<b>POLLUTION DEGREE</b>	2
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<b>LIFESPAN, ELECTRICAL</b>	4000 operations
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## Technical Data - Mechanical

<b>FRAME</b>	45 mm
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	4
<b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>	70 mm (4 SU)
<b>BUILT-IN DEPTH</b>	69.5 mm
<b>MOUNTING METHOD</b>	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
<b>DEGREE OF PROTECTION</b>	IP20 IP20, IP40 with suitable enclosure
<b>TERMINALS (TOP AND BOTTOM)</b>	Open mouthed/lift terminals
<b>TERMINAL CAPACITY (SOLID WIRE)</b>	1.5 mm <sup>2</sup> - 35 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	1.5 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>	35 mm <sup>2</sup>
<b>TERMINAL CAPACITY (STRANDED CABLE)</b>	16 mm <sup>2</sup> (2x)
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b>	1.5 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>	16 mm <sup>2</sup>
<b>TERMINAL PROTECTION</b>	Finger and hand touch safe, DGUV VS3, EN 50274
<b>BUSBAR MATERIAL THICKNESS</b>	0.8 mm - 2 mm
<b>LIFESPAN, MECHANICAL</b>	20000 operations
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN</b>	-35 °C
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>	60 °C
<b>CLIMATIC PROOFING</b>	25-55 °C / 90-95% relative humidity according to IEC 60068-2

## Design verification as per IEC/EN 61439 - technical data

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	63 A
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>	0 W
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	13.4 W
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>	0 W
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C

## Design verification as per IEC/EN 61439

<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the

## Additional information

<b>ACCESSORIES REQUIRED</b>	Z-HK 248432
<b>FEATURES</b>	Additional equipment possible Residual current circuit breaker
<b>FITTED WITH:</b>	IS/SPE-1TE 101911 Interlocking device
<b>SPECIAL FEATURES</b>	<ul style="list-style-type: none"> <li>Maximum operating temperature is 60 °C: Starting at 40 °C, the max. permissible continuous current decreases by 1.8% for every 1 °C</li> <li>Tripping signal contact for subsequent installation Z-NHK 248434</li> </ul>
<b>USED WITH</b>	KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4TE 101062 (sealing cover set)

	temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Ressources

CATALOGUES	<a href="#">eaton-protective-devices-catalog-ca20190603-en-us.pdf</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-rccb-declaration-of-conformity-eu250124en.pdf</a>
INSTRUCTIONS D'INSTALLATION	<a href="#">eaton-rccb-rcto-g9-il019140zu.pdf</a>
PEP ECO-PASSPORT	<a href="#">eaton-residual-current-circuit-breakers-pep-eato-00111-v0101-en.pdf</a>
SCHÉMAS	<a href="#">eaton-circuit-breaker-xeffect-frcmm-rccb-dimensions.jpg</a>
SCHÉMAS ÉLECTRIQUES	<a href="#">eaton-pfgm-wiring-diagram-002.jpg</a>

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**NOM DU PROJET:**

**NUMÉRO DU PROJET:**

**PRÉPARÉ PAR:**

**DATE:**

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