



## Eaton 166824

Eaton Moeller series xPole - PF6/7 RCCB.  
Residual current circuit breaker (RCCB),  
100A, 4 p, 30mA, type G

□□□□

<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PF6/7 RCCB
<b>CATALOG NUMBER</b>	166824
<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*

<b>USED WITH</b>	PF7 Residual current circuit breakers Type G (ÖVE E 8601) KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4TE 101062 (sealing cover set)
<b>AMPERAGE RATING</b>	100 A
<b>VOLTAGE RATING</b>	230 V AC / 400 V AC
<b>FEATURES</b>	Residual current circuit breaker Additional equipment possible
<b>ACCESSORIES REQUIRED</b>	Z-HK 248432
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the 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.
<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.

□□□□	<a href="#">eaton-xpole-pf7-rccb-catalog-ca019032en-en-us.pdf</a>
	<a href="#">eaton-xpole-pf6-rccb-catalog-ca019034en-en-us.pdf</a>
□□	<a href="#">eaton-xpole-pf67-rccb-3d-drawing.jpg</a>
	<a href="#">eaton-circuit-breaker-xeffect-frcmm-rccb-dimensions.jpg</a>

<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>FITTED WITH:</b>	Interlocking device IS/SPE-1TE 101911
<b>FRAME</b>	45 mm
<b>FREQUENCY RATING</b>	50 Hz
<b>POLLUTION DEGREE</b>	2
<b>LIFESPAN, MECHANICAL</b>	20000 operations
<b>MOUNTING METHOD</b>	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 DIN rail
<b>CLIMATIC PROOFING</b>	25-55 °C / 90-95% relative humidity according to IEC 60068-2
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	18.8 W

<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>	10 kA
<b>ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX</b>	80 A gG/gL
<b>BUILT-IN WIDTH (NUMBER OF UNITS)</b>	70 mm (4 SU)
<b>BUSBAR MATERIAL THICKNESS</b>	0.8 mm - 2 mm
<b>SHORT-CIRCUIT RATING</b>	100 A (max. admissible back-up fuse)
<b>TERMINAL PROTECTION</b>	Finger and hand touch safe, DGUV VS3, EN 50274
<b>TERMINALS (TOP AND BOTTOM)</b>	Open mouthed/lift terminals
<b>TEST CIRCUIT RANGE</b>	184 V AC - 440 V AC
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>BUILT-IN DEPTH</b>	69.5 mm
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>	16 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b>	1.5 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>	35 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	1.5 mm <sup>2</sup>
<b>FAULT CURRENT RATING</b>	30 mA
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT</b>	0 W
<b>PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX</b>	60 °C
<b>PERMITTED STORAGE AND TRANSPORT</b>	-35 °C

<b>TEMPERATURE - MIN</b>	
<b>DEGREE OF PROTECTION</b>	IP20 IP20, IP40 with suitable enclosure
<b>IMPULSE WITHSTAND CURRENT</b>	Surge-proof, 3 kA
<b>NUMBER OF POLES</b>	Four-pole
<b>LEAKAGE CURRENT TYPE</b>	AC
<b>LIFESPAN, ELECTRICAL</b>	4000 operations
<b>TYPE</b>	<ul style="list-style-type: none"> <li>• PF7</li> <li>• Residual current circuit breakers</li> <li>• Type G (ÖVE E 8601)</li> </ul>
<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 1.2% for every 1 °C</li> <li>• Tripping signal contact for subsequent installation Z-NHK 248434</li> </ul>
<b>APPLICATION</b>	<ul style="list-style-type: none"> <li>• Residual current circuit breaker for residential and commercial applications</li> <li>• xPole - Switchgear for residential and commercial applications</li> </ul>
<b>FUNCTIONS</b>	Short-time delayed tripping
<b>SENSITIVITY TYPE</b>	AC current sensitive
<b>RATED FAULT CURRENT - MAX</b>	0.03 A
<b>RATED FAULT CURRENT - MIN</b>	0.03 A
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	100 A

RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
RATED RESIDUAL MAKING AND BREAKING CAPACITY	500 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	0.25 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm² - 35 mm²
TRIPPING TIME	Short time-delayed
RATED SHORT-CIRCUIT STRENGTH	10 kA
TERMINAL CAPACITY (STRANDED CABLE)	16 mm² (2x)
RAL-NUMBER	7035
COLOR	Gray

□□□□:
□□□□:
□□□:
□□:



□□□□ Eaton House  
30 Pembroke Road  
Dublin 4, □□□  
Eaton.com

