



## Eaton 286468

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 30mA, MCB trip curve C, 1pole+N, RCCB trip type: AC, PFL6

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<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection
<b>CATALOG NUMBER</b>	286468
<b>PRODUCT LENGTH/DEPTH</b>	86 mm
<b>PRODUCT HEIGHT</b>	75 mm
<b>PRODUCT WIDTH</b>	37 mm
<b>PRODUCT WEIGHT</b>	0.225 kg
<b>COMPLIANCES</b>	CE Marked RoHS conform
<b>CERTIFICATIONS</b>	CE

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AMPERAGE RATING	20 A
VOLTAGE RATING	230 V
SURGE CURRENT CAPACITY	0.25 kA
VOLTAGE TYPE	AC
WIDTH IN NUMBER OF MODULAR SPACINGS	2
FEATURES	Concurrently switching N-neutral
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.
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.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	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	Does not apply, since the

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CHARACTERISTIC CURVE	<a href="#">eaton-xpole-pfl6-7-characteristic-curve-002.jpg</a>
□□□□□	<a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>
□□□□	<a href="#">eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf</a> <a href="#">eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf</a>
□□	<a href="#">eaton-xeffect-frbm6m-wiring-diagram.jpg</a> <a href="#">eaton-xpole-pkn6-m-dimensions.jpg</a> <a href="#">eaton-xpole-pkn6-m-3d-drawing.jpg</a>

<b>IMPACT</b>	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>OPERATING AMBIENT TEMPERATURE - MAX</b>	40 °C
<b>OPERATING AMBIENT TEMPERATURE - MIN</b>	-25 °C
<b>PRODUCT RANGE</b>	PFL6
<b>RATED CURRENT</b>	20 A
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	20 A
<b>RATED SWITCHING CAPACITY (IEC/EN 61009)</b>	6 kA
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>	0 W
<b>TRIPPING CHARACTERISTIC</b>	C
<b>BUILT-IN DEPTH</b>	69.5 mm
<b>CURRENT LIMITING CLASS</b>	3
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)</b>	0 kA
<b>AMBIENT OPERATING</b>	40 °C

<b>TEMPERATURE - MAX</b>	
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>FAULT CURRENT RATING</b>	0.03 A
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>	0 W
<b>NUMBER OF POLES (PROTECTED)</b>	1
<b>NUMBER OF POLES (TOTAL)</b>	2
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	230 V
<b>RATED SWITCHING CAPACITY</b>	6 kA
<b>BASIC FUNCTION</b>	Combined RCD/MCB devices
<b>MOUNTING METHOD</b>	DIN rail
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	4.7 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>DEGREE OF PROTECTION</b>	IP20
<b>TRIPPING</b>	Non-delayed
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	2
<b>IMPULSE WITHSTAND CURRENT</b>	Partly surge-proof, 250 A
<b>LEAKAGE CURRENT TYPE</b>	AC
<b>RELEASE CHARACTERISTIC</b>	C
<b>SENSITIVITY TYPE</b>	Type AC, AC current sensitive.
<b>FREQUENCY RATING</b>	50 Hz
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	1 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>	25 mm <sup>2</sup>

CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm <sup>2</sup>
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm <sup>2</sup>
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)	6 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	6 kA
NUMBER OF POLES	Single-pole + N
DISCONNECTION CHARACTERISTIC	Undelayed
TYPE	RCBO
APPLICATION	Switchgear for residential and commercial applications

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