

# Specifications

## Eaton 286549

Eaton Moeller series xPole - PL6 MCB. PL6, 1-pole, tripping characteristic: D, rated current In: 40 A, rated switching capacity IEC/EN 60898-1: 6 kA

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series xPole - PL6 MCB
<b>CATALOG NUMBER</b>	286549
<b>MODEL CODE</b>	PL6-D40/1
<b>EAN</b>	4015082865498
<b>PRODUCT LENGTH/DEPTH</b>	85 mm
<b>PRODUCT HEIGHT</b>	73 mm
<b>PRODUCT WIDTH</b>	17.7 mm
<b>PRODUCT WEIGHT</b>	0.12 kg
<b>COMPLIANCES</b>	RoHS conform



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## Product specifications

<b>USED WITH</b>	Miniature circuit breaker PL6
<b>AMPERAGE RATING</b>	40 A
<b>FEATURES</b>	Additional equipment possible
<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.
<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.

## Resources

<b>CATALOGS</b>	<a href="#">eaton-xpole-pl6-mcb-catalog-ca019069en-en-us.pdf</a> <a href="#">eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf</a> <a href="#">eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf</a>
<b>CHARACTERISTIC CURVE</b>	<a href="#">eaton-xpole-mmc4-6-m-mcb-characteristic-curve-003.jpg</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-03_PL6</a>
<b>DRAWINGS</b>	<a href="#">eaton-xpole-pl6-mcb-dimensions.jpg</a> <a href="#">eaton-xpole-mmc4-6-m-mcb-3d-drawing-005.jpg</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>
<b>MCAD MODEL</b>	<a href="#">pls_1p.dwg</a> <a href="#">pls_1p.stp</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg</a>

<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>POLLUTION DEGREE</b>	2
<b>DEGREE OF PROTECTION</b>	IP20
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	3.2 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>TRIPPING CHARACTERISTIC</b>	D
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	75 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>BUILT-IN DEPTH</b>	70.5 mm
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX</b>	25 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN</b>	1 mm <sup>2</sup>

<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX</b>	25 mm <sup>2</sup>
<b>CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	1 mm <sup>2</sup>
<b>CURRENT LIMITING CLASS</b>	3
<b>FREQUENCY RATING - MAX</b>	60 Hz
<b>FREQUENCY RATING - MIN</b>	50 Hz
<b>HEAT DISSIPATION CAPACITY</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT</b>	0 W
<b>WIDTH IN NUMBER OF MODULAR SPACINGS</b>	1
<b>VOLTAGE TYPE</b>	AC
<b>OVERVOLTAGE CATEGORY</b>	III
<b>NUMBER OF POLES</b>	Single-pole
<b>RELEASE CHARACTERISTIC</b>	D
<b>TYPE</b>	<ul style="list-style-type: none"> <li>• Miniature circuit breaker</li> <li>• PL6</li> </ul>
<b>SPECIAL FEATURES</b>	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
<b>APPLICATION</b>	<ul style="list-style-type: none"> <li>• Switchgear for residential and commercial applications</li> <li>• xPole - Switchgear for residential and commercial applications</li> </ul>
<b>NUMBER OF POLES (PROTECTED)</b>	1
<b>NUMBER OF POLES (TOTAL)</b>	1
<b>RATED INSULATION</b>	440 V

<b>VOLTAGE (UI)</b>	
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	40 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	230 V
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 230 V</b>	6 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60898) AT 400 V</b>	6 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 230 V</b>	0 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2) AT 400 V</b>	0 kA
<b>RATED SWITCHING CAPACITY (IEC/EN 60898-1)</b>	6 kA
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT</b>	0 W
<b>POWER LOSS</b>	3.1 W

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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