

# Specifications



## Eaton 194789

Eaton Moeller series xPole - HL/HL-HX MCB.  
HL, xPole Home, 3-pole, tripping  
characteristic: C, rated current  $I_n$ : 10 A, rated  
switching capacity IEC/EN 60898-1: 4,5 kA

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series xPole - HL/HL-HX MCB
<b>CATALOG NUMBER</b>	194789
<b>MODEL CODE</b>	HL-C10/3
<b>EAN</b>	9010238062733
<b>PRODUCT LENGTH/DEPTH</b>	85 mm
<b>PRODUCT HEIGHT</b>	73 mm
<b>PRODUCT WIDTH</b>	53.1 mm
<b>PRODUCT WEIGHT</b>	0.36 kg
<b>COMPLIANCES</b>	RoHS conform
<b>GLOBAL CATALOG</b>	194789



Powering Business Worldwide

## Product specifications

<b>USED WITH</b>	HL Miniature circuit breaker
<b>AMPERAGE RATING</b>	10 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.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF</b>	Does not apply, since the

## Resources

<b>BROCHURES</b>	<a href="#">eaton-xPole-home-leaflet-br003019en-en-gb.pdf</a>
<b>CATALOGS</b>	<a href="#">eaton-xpole%20home-hl-hx-mcb-catalog-ca019019en-en-us.pdf</a> <a href="#">eaton-xpole%20home-catalog-ca019002en-en-us.pdf</a>
<b>CHARACTERISTIC CURVE</b>	<a href="#">eaton-xpole-mmc4-6-m-mcb-characteristic-curve-004.jpg</a> <a href="#">eaton-xpole-mmc4-6-m-mcb-characteristic-curve-002.jpg</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-mcb-declaration-of-conformity-eu250068en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-xpole-pl6-mcb-dimensions.jpg</a> <a href="#">eaton-xpole-hlhl-hx-mcb-3d-drawing-002.jpg</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">eaton-rccb-rcbo-g9-il019140zu.pdf</a>
<b>MCAD MODEL</b>	<a href="#">eaton-non-selective-universal-mcb-mcad-drawings-pls-faz-3p.dwg</a> <a href="#">pls_3p.dwg pls_3p.stp</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-xpole-mmc4-6-m-mcb-wiring-diagram-005.jpg</a>

<b>PROTECTION OF ASSEMBLIES</b>	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>	3
<b>DEGREE OF PROTECTION</b>	IP20
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT</b>	4.6 W
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	4 kV
<b>TRIPPING CHARACTERISTIC</b>	C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	75 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>BUILT-IN DEPTH</b>	44 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</b>	1 mm <sup>2</sup>

<b>CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN</b>	
<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>	3
<b>VOLTAGE TYPE</b>	AC
<b>OVERVOLTAGE CATEGORY</b>	III
<b>NUMBER OF POLES</b>	Three-pole
<b>RELEASE CHARACTERISTIC</b>	C
<b>TYPE</b>	<ul style="list-style-type: none"> <li>• HL</li> <li>• Miniature circuit breaker</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 Home - Switchgear for residential applications</li> </ul>
<b>NUMBER OF POLES (PROTECTED)</b>	3
<b>NUMBER OF POLES (TOTAL)</b>	3
<b>RATED INSULATION VOLTAGE (UI)</b>	440 V
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	10 A
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	230 V
<b>RATED SHORT-CIRCUIT</b>	4.5 kA

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**BREAKING CAPACITY  
(IEC/EN 60898-1) - ICN AT  
230 V**

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**RATED SHORT-CIRCUIT  
BREAKING CAPACITY  
(IEC/EN 60898-1)- ICN AT  
400 V** 4.5 kA

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**RATED SHORT-CIRCUIT  
BREAKING CAPACITY (IEC  
60947-2)- ICU AT 230 V** 0 kA

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**RATED SHORT-CIRCUIT  
BREAKING CAPACITY (IEC  
60947-2)- ICU AT 400 V** 0 kA

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**RATED SWITCHING  
CAPACITY (IEC/EN 60898-  
1)** 4.5 kA

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**STATIC HEAT  
DISSIPATION, NON-  
CURRENT-DEPENDENT** 0 W

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**SUITABLE FOR** Flush-mounted installation

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**POWER LOSS** 4.5 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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