

Specifications



Eaton 194812

Eaton Moeller series xPole - HL/HL-HX MCB.
HL, xPole Home, 3-pole+N, tripping
characteristic: C, rated current I_n : 20 A, rated
switching capacity IEC/EN 60898-1: 4,5 kA

General specifications

PRODUCT NAME	Eaton Moeller series xPole - HL/HL-HX MCB
CATALOG NUMBER	194812
MODEL CODE	HL-C20/3N
EAN	9010238062962
PRODUCT LENGTH/DEPTH	85 mm
PRODUCT HEIGHT	73 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.456 kg
COMPLIANCES	RoHS conform
GLOBAL CATALOG	194812



Powering Business Worldwide

Product specifications

USED WITH	Miniature circuit breaker HL
AMPERAGE RATING	20 A
FEATURES	Concurrently switching N-neutral Additional equipment possible
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 IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product

Resources

BROCHURES	eaton-xPole-home-leaflet-br003019en-en-gb.pdf
CATALOGS	eaton-xpole%20home-catalog-ca019002en-en-us.pdf eaton-xpole%20home-hl-hx-mcb-catalog-ca019019en-en-us.pdf
CHARACTERISTIC CURVE	eaton-xpole-mmc4-6-m-mcb-characteristic-curve-004.jpg eaton-xpole-mmc4-6-m-mcb-characteristic-curve-002.jpg
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250068en.pdf
DRAWINGS	eaton-xpole-pl6-mcb-dimensions.jpg eaton-xpole-hlhl-hx-mcb-3d-drawing-002.jpg
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9-il019140zu.pdf pls_3pn_4p.stp pls_3pn_4p.dwg
MCAD MODEL	eaton-non-selective-universal-mcb-mcad-drawings-faz-pls-3pn-4p.dwg
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-004.jpg

	standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
POLLUTION DEGREE	3
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	10.1 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TRIPPING CHARACTERISTIC	C
AMBIENT OPERATING TEMPERATURE - MAX	75 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	44 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	25 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) -	25 mm ²

MAX	
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1 mm ²
CURRENT LIMITING CLASS	3
FREQUENCY RATING - MAX	60 Hz
FREQUENCY RATING - MIN	50 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE TYPE	AC
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Three-pole + N
RELEASE CHARACTERISTIC	C
TYPE	<ul style="list-style-type: none"> • HL • Miniature circuit breaker
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
APPLICATION	<ul style="list-style-type: none"> • Switchgear for residential and commercial applications • xPole Home - Switchgear for residential applications
NUMBER OF POLES (PROTECTED)	3
NUMBER OF POLES (TOTAL)	4
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
RATED OPERATIONAL	230 V

VOLTAGE (UE) - MAX	
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT 230 V	4.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1)- ICN AT 400 V	4.5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 230 V	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC 60947-2)- ICU AT 400 V	0 kA
RATED SWITCHING CAPACITY (IEC/EN 60898-1)	4.5 kA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
SUITABLE FOR	Flush-mounted installation
POWER LOSS	10.5 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc
 Eaton House
 30 Pembroke Road
 Dublin 4, Ireland
 Eaton.com

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