

Specifications



Eaton 286538

Eaton Moeller series xPole - PL6 MCB. PL6, 1-pole, tripping characteristic: C, rated current I_n : 50 A, rated switching capacity IEC/EN 60898-1: 6 kA

General specifications

PRODUCT NAME	Eaton Moeller series xPole - PL6 MCB
CATALOG NUMBER	286538
MODEL CODE	PL6-C50/1
EAN	4015082865382
PRODUCT LENGTH/DEPTH	85 mm
PRODUCT HEIGHT	73 mm
PRODUCT WIDTH	17.7 mm
PRODUCT WEIGHT	0.12 kg
COMPLIANCES	RoHS conform
GLOBAL CATALOG	286538



Powering Business Worldwide

Product specifications

USED WITH	PL6 Miniature circuit breaker
AMPERAGE RATING	50 A
FEATURES	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 standard's requirements.
10.3 DEGREE OF	Does not apply, since the

Resources

	eaton-xpole-protective-devices-catalog-ca019014en-en-us.pdf
CATALOGS	eaton-xpole-pl6-mcb-catalog-ca019069en-en-us.pdf eaton-miniature-circuit-breaker-xpole-pl6-catalog-ca20190212-en-us.pdf
CHARACTERISTIC CURVE	eaton-xpole-mmc4-6-m-mcb-characteristic-curve-002.jpg
DECLARATIONS OF CONFORMITY	eaton-mcb-declaration-of-conformity-eu250400en.pdf
DRAWINGS	eaton-xpole-pl6-mcb-dimensions.jpg eaton-xpole-pl6-mcb-3d-drawing-002.jpg
INSTALLATION INSTRUCTIONS	eaton-rccb-rcbo-g9-il019140zu.pdf
MCAD MODEL	pls_1p.stp pls_1p.dwg eaton-non-selective-universal-mcb-mcad-drawings-faz-pls-1p.dwg
WIRING DIAGRAMS	eaton-xpole-mmc4-6-m-mcb-wiring-diagram-002.jpg

PROTECTION OF ASSEMBLIES	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	2
DEGREE OF PROTECTION	IP20
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	4.5 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	70.5 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) - MAX	25 mm ²
CONNECTABLE	1 mm ²

CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	
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	1
VOLTAGE TYPE	AC
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Single-pole
RELEASE CHARACTERISTIC	C
TYPE	<ul style="list-style-type: none"> • Miniature circuit breaker • PL6
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 - Switchgear for residential and commercial applications
NUMBER OF POLES (PROTECTED)	1
NUMBER OF POLES (TOTAL)	1
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	50 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED SHORT-CIRCUIT	6 kA

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

**RATED SHORT-CIRCUIT
BREAKING CAPACITY
(IEC/EN 60898-1)- ICN AT
400 V** 6 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)** 6 kA

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

POWER LOSS 4.4 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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