

## Eaton 243122

Eaton Moeller series xPole - PLS6-DC MCB. PLS6, 1-pole, tripping characteristic: C, rated current In: 16 A, rated switching capacity acc. to IEC/EN 60947-2: 6 kA, Switchgear for DC applications

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PRODUCT NAME	Eaton Moeller series xPole - PLS6-DC MCB
CATALOG NUMBER	243122
PRODUCT LENGTH/DEPTH	85 mm
PRODUCT HEIGHT	73 mm
PRODUCT WIDTH	17.5 mm
PRODUCT WEIGHT	0.12 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	CE



LICED WITH	PLS6
USED WITH	Miniature circuit breaker
AMPERAGE RATING	16 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

CHARACTERISTIC CURVE	eaton-xeffect-faz-dc-mcb-characteristic-curve.jpg  eaton-xeffect-faz-dc-mcb-characteristic-curve-002.jpg
000	eaton-xeffect-faz-dc-mcb- wiring-diagram.jpg
0000	eaton-xpole-pls6-dc-mcb- catalog-ca019067en-en- us.pdf
00	eaton-xpole-mmc4-6-m- mcb-dimensions.jpg eaton-xpole-mmc4-6-m- mcb-3d-drawing-007.jpg

ASSEMBLIES  0.4 CLEARANCES AND REEPAGE DISTANCES  0.5 PROTECTION GAINST ELECTRIC ENTITY ELECTRIC ENTITY ELECTRIC ENTITY ELECTRIC ENTITY ELECTRIC ENTITY ELECTRICAL CIRCUITS ENDOWNERTS  0.7 INTERNAL ELECTRICAL CIRCUITS ENDOWNECTIONS  0.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  0.9.2 POWER-REQUENCY ELECTRIC ENTITY ELECTRICAL CIRCUITS ENDOWNED ELECTRICAL CONDUCTORS  0.9.2 POWER-REQUENCY ELECTRIC ELECTRICAL ELECTRICAL CONDUCTORS  0.9.3 IMPULSE ELECTRIC ENDOWNED ELECTRICAL ELECTRICA		
REEPAGE DISTANCES  0.5 PROTECTION RGAINST ELECTRIC HOCK  0.6 INCORPORATION OF WITCHING DEVICES AND COMPONENTS  0.7 INTERNAL ELECTRICAL CIRCUITS RECONDUCTORS REQUENCY ELECTRIC TRENGTH  0.9.3 IMPULSE WITHSTAND VOLTAGE  0.9.4 TESTING OF INCLUSIONS MADE OF INCLUSIONS MAX  0.00 IMPONENT PROTECTION  1. S the panel builder's responsibility.  1. Is the panel builder's responsibility.  2. Is the panel builder's respon	PROTECTION OF ASSEMBLIES	entire switchgear needs to be evaluated.
AGAINST ELECTRIC entire switchgear needs to be evaluated.  0.6 INCORPORATION OF INTERNAL SILECTRICAL CIRCUITS IND CONNECTABLE STONDUCTOR SPONSIBILITY.  0.7 INTERNAL SILECTRICAL CIRCUITS IND CONNECTABLE CONDUCTOR SPONSIBILITY.  0.8 CONNECTIONS FOR IS the panel builder's responsibility.  1.5 the panel builder's responsibility.  1.6 the panel builder's responsibility.  1.7 the panel builder's responsibility.  1.8 the panel builder's responsibility.  1.9 the panel builder's responsibilit	10.4 CLEARANCES AND CREEPAGE DISTANCES	
entire switchgear needs to be evaluated.  10.7 INTERNAL ELECTRICAL CIRCUITS (IND CONNECTIONS)  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS  10.9.2 POWER-REQUENCY ELECTRIC (ITRENGTH)  10.9.3 IMPULSE (IS the panel builder's responsibility.  10.9.4 TESTING OF (INCLOSURES MADE OF INCLOSURES MADE OF INCLO	10.5 PROTECTION AGAINST ELECTRIC SHOCK	entire switchgear needs to
Is the panel builder's responsibility.  1. Sthe panel builder's responsibility	10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	entire switchgear needs to
RECTION (MULTI-WIRED)  MAX  CONNECTABLE CONDUCTORS  responsibility.  Is the panel builder's responsible responsibility.  Is the panel builder's responsibility.  Is th	10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	
REQUENCY ELECTRIC RETRENGTH  O.9.3 IMPULSE WITHSTAND VOLTAGE  O.9.4 TESTING OF RICLOSURES MADE OF RISULATING MATERIAL  OCILUTION DEGREE  OEGREE OF PROTECTION  PEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE  WITHSTAND VOLTAGE  OUIDING RETERMING RETERMING RETERMING REMPERATURE - MAX  AMBIENT OPERATING REMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS RECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS RECTION (SOLID-CORE) - MAX  25 mm²	10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	
O.9.4 TESTING OF IS the panel builder's responsibility.  O.9.4 TESTING OF IS the panel builder's responsibility.  OLUTION DEGREE 2  OEGREE OF PROTECTION IP20  EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE UIMP)  FRIPPING CHARACTERISTIC  AMBIENT OPERATING CEMPERATURE - MAX  AMBIENT OPERATING CEMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	
INCLOSURES MADE OF NSULATING MATERIAL  POLLUTION DEGREE  DEGREE OF PROTECTION  EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE UIMP)  CHARACTERISTIC  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX  25 mm²	10.9.3 IMPULSE WITHSTAND VOLTAGE	•
QUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE UIMP)  RIPPING CHARACTERISTIC  AMBIENT OPERATING EMPERATURE - MAX  AMBIENT OPERATING EMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS ECTION (SOLID-CORE) - MAX	10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	•
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE UIMP)  RIPPING CHARACTERISTIC  AMBIENT OPERATING EMPERATURE - MAX  AMBIENT OPERATING EMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS ECTION (SOLID-CORE) - MAX	POLLUTION DEGREE	2
DISSIPATION, CURRENT- DEPENDENT  RATED IMPULSE WITHSTAND VOLTAGE UIMP)  RIPPING CHARACTERISTIC  AMBIENT OPERATING EMPERATURE - MAX  AMBIENT OPERATING EMPERATURE - MIN  BUILT-IN DEPTH  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS ECTION (SOLID-CORE) -  MAX	DEGREE OF PROTECTION	IP20
WITHSTAND VOLTAGE UIMP)  RIPPING CHARACTERISTIC  AMBIENT OPERATING EMPERATURE - MAX  AMBIENT OPERATING EMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS ECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS ECTION (SOLID-CORE) - MAX	EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT	2 W
CHARACTERISTIC  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  CONNECTABLE CONDUCTOR CROSS TECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS TECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS TECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS TECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS TECTION (SOLID-CORE) - MAX	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  BUILT-IN DEPTH  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	TRIPPING CHARACTERISTIC	С
TEMPERATURE - MIN  BUILT-IN DEPTH  TONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	AMBIENT OPERATING TEMPERATURE - MAX	75 °C
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
CONDUCTOR CROSS SECTION (MULTI-WIRED) MAX  CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	BUILT-IN DEPTH	70.5 mm
CONDUCTOR CROSS SECTION (MULTI-WIRED) MIN  CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) -	CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED)	25 mm²
CONDUCTOR CROSS SECTION (SOLID-CORE) - 25 mm <sup>2</sup> MAX	- MAX	
CONNECTABLE 1 mm <sup>2</sup>	CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1 mm²
	CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED)	

CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	
CURRENT LIMITING CLASS	3
FREQUENCY RATING - MAX	0 Hz
FREQUENCY RATING - MIN	0 Hz
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT	0 W
WIDTH IN NUMBER OF MODULAR SPACINGS	1
VOLTAGE TYPE	DC
OVERVOLTAGE CATEGORY	III
NUMBER OF POLES	Single-pole
RELEASE CHARACTERISTIC	С
ТҮРЕ	<ul><li>Miniature circuit breaker</li><li>PLS6</li></ul>
SPECIAL FEATURES	Ambient temperature hint: a 1 °C increase results in a 0.5% linear reduction of current carrying capacity
SPECIAL FEATURES  APPLICATION	a 1 °C increase results in a 0.5% linear reduction of
	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC
APPLICATION  NUMBER OF POLES	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications
APPLICATION  NUMBER OF POLES (PROTECTED)  NUMBER OF POLES	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications
APPLICATION  NUMBER OF POLES (PROTECTED)  NUMBER OF POLES (TOTAL)  RATED INSULATION	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications  1
APPLICATION  NUMBER OF POLES (PROTECTED)  NUMBER OF POLES (TOTAL)  RATED INSULATION VOLTAGE (UI)  RATED OPERATIONAL CURRENT FOR SPECIFIED	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications  1  1  440 V
APPLICATION  NUMBER OF POLES (PROTECTED)  NUMBER OF POLES (TOTAL)  RATED INSULATION VOLTAGE (UI)  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications  1  1  440 V
APPLICATION  NUMBER OF POLES (PROTECTED)  NUMBER OF POLES (TOTAL)  RATED INSULATION VOLTAGE (UI)  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL VOLTAGE (UE) - MAX  RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC/EN 60898-1) - ICN AT	a 1 °C increase results in a 0.5% linear reduction of current carrying capacity  Switchgear for DC applications  1  1  440 V  16 A  220 V

**RATED SHORT-CIRCUIT BREAKING CAPACITY (IEC** 10 kA 60947-2)- ICU AT 230 V

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

10 kA

**RATED SWITCHING** CAPACITY (IEC/EN 60947-

6 kA

2)

**STATIC HEAT** 

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

2.1 W

**POWER LOSS** 

**PROJECT NAME:** 

**PROJECT NUMBER:** 

**PREPARED BY:** 



Eaton House 30 Pembroke Road Dublin 4, □□□



information.



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