

Eaton 286471

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 40A, 30mA, MCB trip curve C, 1pole+N, RCCB trip type: AC, PFL6

General specifications

PRODUCT NAME	Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection
CATALOG NUMBER	286471
EAN	4015082864712
PRODUCT LENGTH/DEPTH	86 mm
PRODUCT HEIGHT	75 mm
PRODUCT WIDTH	37 mm
PRODUCT WEIGHT	0.225 kg
COMPLIANCES	CE Marked RoHS conform
CERTIFICATIONS	CE
MODEL CODE	PFL6-40/1N/C/003

Delivery program

APPLICATION	Switchgear for residential and commercial applications
BASIC FUNCTION	Combined RCD/MCB devices
NUMBER OF POLES	Single-pole + N
NUMBER OF POLES (PROTECTED)	1
NUMBER OF POLES (TOTAL)	2
RELEASE CHARACTERISTIC	C
AMPERAGE RATING	40 A
RATED CURRENT	40 A
FAULT CURRENT RATING	0.03 A
TYPE	RCBO

Technical Data - Electrical

VOLTAGE TYPE	AC
VOLTAGE RATING	230 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V
RATED INSULATION VOLTAGE (UI)	440 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
FREQUENCY RATING	50 Hz
LEAKAGE CURRENT TYPE	AC
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 60947-2)	0 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009)	6 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY (EN 61009-1)	6 kA
SURGE CURRENT CAPACITY	0.25 kA
DISCONNECTION CHARACTERISTIC	Undelayed
POLLUTION DEGREE	2

Technical Data - Mechanical

**WIDTH IN NUMBER OF
MODULAR SPACINGS** 2

BUILT-IN DEPTH 69.5 mm

MOUNTING METHOD DIN rail

DEGREE OF PROTECTION IP20

**CONNECTABLE
CONDUCTOR CROSS
SECTION (SOLID-CORE) -
MIN** 1 mm²

**CONNECTABLE
CONDUCTOR CROSS
SECTION (SOLID-CORE) -
MAX** 25 mm²

**CONNECTABLE
CONDUCTOR CROSS
SECTION (MULTI-WIRED)
- MIN** 1 mm²

**CONNECTABLE
CONDUCTOR CROSS
SECTION (MULTI-WIRED)
- MAX** 25 mm²

Design verification as per IEC/EN 61439 - technical data

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 40 A

**HEAT DISSIPATION PER
POLE, CURRENT-
DEPENDENT** 0 W

**EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT** 9.4 W

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

**HEAT DISSIPATION
CAPACITY** 0 W

**AMBIENT OPERATING
TEMPERATURE - MAX** 40 °C

**AMBIENT OPERATING
TEMPERATURE - MIN** -25 °C

Design verification as per IEC/EN 61439

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.
10.2.3.3 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 PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREPAGE DISTANCES	Meets the product standard's requirements.
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.
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

Additional information

CURRENT LIMITING CLASS	3
FEATURES	Concurrently switching N-neutral

	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.

Resurse

CATALOAGE	eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf
	eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf
INSTRUCȚIUNI DE INSTALARE	eaton-rccb-rcbo-g9-il019140zu.pdf

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



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