



Eaton 301803

Eaton Moeller series xPole - PFIM Type B RCCB. Residual current circuit-breaker, all-current sensitive, 63 A, 2p, 30 mA, type XG/B

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PRODUCT NAME	Eaton Moeller series xPole - PFIM Type B RCCB
CATALOG NUMBER	301803
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.32 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 61008 IEC/EN 62423

USED WITH

PFIM
Type B
Residual current circuit
breakers
KLV-TC-2 276240 (Compact
enclosure)
Z-FW/LP 248296 (Remote
control and automatic
switching device)
Z-RC/AK-2MU 285385
(sealing cover set)

AMPERAGE RATING

63 A

VOLTAGE RATING

230 V AC

FEATURES

Residual current circuit
breaker
Additional equipment
possible

ACCESSORIES REQUIRED

Z-HK 248432

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.

CHARACTERISTIC CURVE

[eaton-current-xeffect-
frcdm-rccb-characteristic-
curve-003.jpg](#)

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[eaton-xpole-pfim-rccb-
wiring-diagram-002.jpg](#)

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dimensions.jpg](#)

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[eaton-pfim-type-b-for-ev-
chargers-application-
notes-ap003003en-en-
us.pdf](#)

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 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.
FITTED WITH:	IS/SPE-1TE 101911 Interlocking device
FRAME	45 mm
FREQUENCY RATING	50 Hz
POLLUTION DEGREE	2
MOUNTING METHOD	DIN rail Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	6.7 W
RATED IMPULSE	4 kV

WITHSTAND VOLTAGE (UIMP)	
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	63 A gG/gL
BUILT-IN WIDTH (NUMBER OF UNITS)	70 mm (4 SU)
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
SHORT-CIRCUIT RATING	63 A (max. admissible back-up fuse)
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
TERMINALS (TOP AND BOTTOM)	Open mouthed/lift terminals
TEST CIRCUIT RANGE	196 V AC - 264 V AC
AMBIENT OPERATING TEMPERATURE - MAX	50 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
BUILT-IN DEPTH	70.5 mm
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm ²
FAULT CURRENT RATING	30 mA
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C

LIFESPAN, MECHANICAL	20000 operations
DEGREE OF PROTECTION	IP20 IP40, IP54 (with moisture-proof enclosure)
IMPULSE WITHSTAND CURRENT	Surge-proof, 3 kA
NUMBER OF POLES	Two-pole
LEAKAGE CURRENT TYPE	B
LIFESPAN, ELECTRICAL	4000 operations

TYPE	<ul style="list-style-type: none"> • PFIM • Residual current circuit breakers • Type B
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SPECIAL FEATURES	<ul style="list-style-type: none"> • Current test marks as per inscription • Maximum operating temperature is 50 °C: Starting at 40 °C, the max. permissible continuous current decreases by 2.2% for every 1 °C • Tripping signal contact for subsequent installation Z-NHK 248434
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APPLICATION	<ul style="list-style-type: none"> • Switchgear for residential and commercial applications • xPole - Switchgear for residential and commercial applications
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SENSITIVITY TYPE	All current sensitive
RATED FAULT CURRENT - MAX	0.03 A
RATED FAULT CURRENT - MIN	0.03 A
RATED INSULATION VOLTAGE (UI)	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	63 A
RATED OPERATIONAL VOLTAGE (UE) - MAX	230 V

RATED RESIDUAL MAKING AND BREAKING CAPACITY	630 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	0.25 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	2
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm ² - 35 mm ²
TRIPPING TIME	Short time-delayed
RATED SHORT-CIRCUIT STRENGTH	10 kA
TERMINAL CAPACITY (STRANDED CABLE)	16 mm ² (2x)
RAL-NUMBER	7035
COLOR	Gray

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:



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