



Eaton 300307

Eaton Moeller series xPole - PFIM Type B RCCB. Residual current circuit-breaker, all-current sensitive, 40 A, 4p, 300 mA, type XS/B

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PRODUCT NAME	Eaton Moeller series xPole - PFIM Type B RCCB
CATALOG NUMBER	300307
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	70 mm
PRODUCT WEIGHT	0.32 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC/EN 62423 IEC/EN 61008



Powering Business Worldwide

USED WITH	Type B PFIM Residual current circuit breakers KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4MU 101062 (sealing cover set)
AMPERAGE RATING	40 A
VOLTAGE RATING	230 V AC / 400 V AC
FEATURES	Additional equipment possible Selective protection Residual current circuit breaker
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.	Meets the product standard's requirements.

CHARACTERISTIC CURVE	eaton-current-xeffect-frcdm-rcb-characteristic-curve-03.jpg
□□□	eaton-xpole-pfim-rcb-wiring-diagram.jpg
□□	eaton-xpole-pfim-rcb-dimensions.jpg
□□□□□□	eaton-pfim-type-b-for-ev-chargers-application-notes-ap003003en-en-us.pdf

EFFECTS	
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:	Interlocking device IS/SPE-1TE 101911
FRAME	45 mm
FREQUENCY RATING	50 Hz
POLLUTION DEGREE	2
LIFESPAN, MECHANICAL	20000 operations
MOUNTING METHOD	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 DIN rail
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2
EQUIPMENT HEAT DISSIPATION, CURRENT-	6.2 W

DEPENDENT	
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	40 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 - 440 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	300 mA
HEAT DISSIPATION CAPACITY	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
PERMITTED STORAGE	-35 °C

**AND TRANSPORT
TEMPERATURE - MIN**

DEGREE OF PROTECTION	IP40, IP54 (with moisture-proof enclosure) IP20
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IMPULSE WITHSTAND CURRENT	Surge-proof 5 kA
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NUMBER OF POLES	Four-pole
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LEAKAGE CURRENT TYPE	B
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LIFESPAN, ELECTRICAL	4000 operations
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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 1.8% 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
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RATED FAULT CURRENT - MAX	0.3 A
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RATED FAULT CURRENT - MIN	0.3 A
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RATED INSULATION VOLTAGE (UI)	440 V
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RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
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RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
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RATED RESIDUAL MAKING AND BREAKING CAPACITY	500 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
SURGE CURRENT CAPACITY	5 kA
WIDTH IN NUMBER OF MODULAR SPACINGS	4
VOLTAGE TYPE	AC
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm ² - 35 mm ²
TRIPPING TIME	Selective switch off
RATED SHORT-CIRCUIT STRENGTH	10 kA
TERMINAL CAPACITY (STRANDED CABLE)	16 mm ² (2x)
RAL-NUMBER	7035
COLOR	Gray

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