



Eaton 300308

Eaton Moeller series xPole - PFIM Type B RCCB. Residual current circuit-breaker, all-current sensitive, 63 A, 4p, 300 mA, type XS/B

General specifications

PRODUCT NAME	Eaton Moeller series xPole - PFIM Type B RCCB
CATALOG NUMBER	300308
EAN	9010238111646
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
MODEL CODE	PFIM-63/4/03-XS/B

Delivery program

APPLICATION

- Switchgear for residential and commercial applications
- xPole - Switchgear for residential and commercial applications

NUMBER OF POLES	Four-pole
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TRIPPING TIME	Selective switch off
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AMPERAGE RATING	63 A
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RATED SHORT-CIRCUIT STRENGTH	10 kA
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FAULT CURRENT RATING	300 mA
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SENSITIVITY TYPE	All current sensitive
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IMPULSE WITHSTAND CURRENT	Surge-proof 5 kA
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TYPE

- PFIM
- Residual current circuit breakers
- Type B

Technical Data - Electrical

VOLTAGE RATING	230 V AC / 400 V AC
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RATED OPERATIONAL VOLTAGE (UE) - MAX	400 V
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RATED INSULATION VOLTAGE (UI)	440 V
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RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4 kV
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RATED FAULT CURRENT - MIN	0.3 A
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RATED FAULT CURRENT - MAX	0.3 A
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FREQUENCY RATING	50 Hz
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SHORT-CIRCUIT RATING	63 A (max. admissible back-up fuse)
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LEAKAGE CURRENT TYPE	B
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RATED RESIDUAL MAKING AND BREAKING CAPACITY	630 A
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ADMISSIBLE BACK-UP FUSE OVERLOAD - MAX	63 A gG/gL
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RATED SHORT-TIME WITHSTAND CURRENT (ICW)	10 kA
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SURGE CURRENT CAPACITY	5 kA
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TEST CIRCUIT RANGE	196 V AC - 440 V AC
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POLLUTION DEGREE	2
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LIFESPAN, ELECTRICAL	4000 operations
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Technical Data - Mechanical

FRAME	45 mm
WIDTH IN NUMBER OF MODULAR SPACINGS	4
BUILT-IN WIDTH (NUMBER OF UNITS)	70 mm (4 SU)
BUILT-IN DEPTH	70.5 mm
MOUNTING METHOD	Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 DIN rail
DEGREE OF PROTECTION	IP20 IP40, IP54 (with moisture-proof enclosure)
TERMINALS (TOP AND BOTTOM)	Open mouthed/lift terminals
TERMINAL CAPACITY (SOLID WIRE)	1.5 mm ² - 35 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MIN	1.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (SOLID-CORE) - MAX	35 mm ²
TERMINAL CAPACITY (STRANDED CABLE)	16 mm ² (2x)
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MIN	1.5 mm ²
CONNECTABLE CONDUCTOR CROSS SECTION (MULTI-WIRED) - MAX	16 mm ²
TERMINAL PROTECTION	Finger and hand touch safe, DGUV VS3, EN 50274
BUSBAR MATERIAL THICKNESS	0.8 mm - 2 mm
LIFESPAN, MECHANICAL	20000 operations
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MIN	-35 °C
PERMITTED STORAGE AND TRANSPORT TEMPERATURE - MAX	60 °C
CLIMATIC PROOFING	25-55 °C / 90-95% relative humidity according to IEC 60068-2

Design verification as per IEC/EN 61439 - technical data

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	63 A
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT	0 W
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT	10 W
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT	0 W
HEAT DISSIPATION CAPACITY	0 W
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	50 °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.
10.2.3.2 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 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.
10.10 TEMPERATURE RISE	The panel builder is responsible for the

Additional information

ACCESSORIES REQUIRED	Z-HK 248432
FEATURES	Additional equipment possible Residual current circuit breaker Selective protection
FITTED WITH:	IS/SPE-1TE 101911 Interlocking device
SPECIAL FEATURES	- 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
USED WITH	Residual current circuit breakers Type B PFIM KLV-TC-4 276241 (Compact enclosure) Z-FW/LP 248296 (Remote control and automatic switching device) Z-RC/AK-4MU 101062 (sealing cover set)

	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.

Zdroje

APLIKAČNÍ POZNÁMKY	eaton-pfim-type-b-for-ev-chargers-application-notes-ap003003en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-rccb-declaration-of-conformity-uk251423en.pdf eaton-rccb-declaration-of-conformity-eu250146en.pdf
CHARACTERISTIC CURVE	eaton-current-xeffect-frcdm-rccb-characteristic-curve-03.jpg
INSTALAČNÍ NÁVODY	IL019236ZU
KATALOGY	eaton-xpole-pfim-b-rccb-catalog-ca019031en-en-us.pdf
MCAD MODEL	eaton-pfim-b-4p-3-d-model.stp eaton-pfim-b-4p-drawing.dwg
PEP ECO-PASSPORT	eaton-residual-current-circuit-breakers-pep-eato-00110-v0101-en.pdf
SCHÉMATA ZAPOJENÍ	eaton-xpole-pfim-rccb-wiring-diagram.jpg
VÝKRESY	eaton-xpole-pfim-rccb-dimensions.jpg

NÁZEV PROJEKTU:

ČÍSLO PROJEKTU:

PŘIPRAVIL:

DATUM:



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