

Specifications



Eaton 088914

Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker, 3p, Ir=2.5-4A, screw connection

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker
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CATALOG NUMBER	088914
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MODEL CODE	PKZM0-4-T
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EAN	4015080889144
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PRODUCT LENGTH/DEPTH	76 mm
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PRODUCT HEIGHT	93 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.284 kg
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CERTIFICATIONS	VDE 0660 IEC/EN 60947 CE UL CSA IEC/EN 60947-4-1 CSA Class No.: 3211-05 CSA File No.: 165628 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332
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Climatic environmental conditions

ALTITUDE	Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

Design verification

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)

4 A

STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS

0 W

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

Electrical rating

RATED FREQUENCY - MAX

60 Hz

RATED FREQUENCY - MIN

50 Hz

RATED OPERATIONAL CURRENT (IE)

4 A

RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ

0.75 kW

RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ

1.5 kW

RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ

1.5 kW

RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ

2.2 kW

RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ

3 kW

RATED OPERATIONAL VOLTAGE (UE) - MAX

690 V

RATED OPERATIONAL VOLTAGE (UE) - MIN

690 V

RATED UNINTERRUPTED CURRENT (IU)

4 A

	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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	4.88 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.63 W

Features & functions	
ACTUATOR TYPE	Turn button
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
FITTED WITH:	Switched-off indicator
FUNCTIONS	Transformer protection For the protection of transformers with a high inrush current
NUMBER OF POLES	Three-pole

General information	
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP20 Terminals: IP00
LIFESPAN, ELECTRICAL	100,000 operations
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
OPERATING FREQUENCY	40 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3

PRODUCT CATEGORY	Transformer protective circuit breaker
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
SUITABLE FOR	Also motors with efficiency class IE3 DIN rail (top hat rail) mounting
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 ≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range

Short-circuit rating

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 400 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 440 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 500 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 690 V AC** 3 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 400 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 440 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 500 V AC** 150 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 690 V AC** 3 kA

SHORT-CIRCUIT CURRENT 60 kA DC, up to 250 V DC,
Main conducting paths

**SHORT-CIRCUIT CURRENT
RATING (GROUP
PROTECTION)** 50 kA, 600 V High Fault,
Fuse, SCCR (UL/CSA) with
600 A, 600 V High Fault,
Fuse, SCCR (UL/CSA)
50 kA, 600 V High Fault,
CB, SCCR (UL/CSA) with
600 A, 600 V High Fault,
CB, SCCR (UL/CSA)

SHORT-CIRCUIT RELEASE Basic device, fixed 20 x I_u
± 20% tolerance
84 A, I_{rm}

Switching capacity

SWITCHING CAPACITY 4 A (3 contacts in series),
DC-5 up to 250V
4 A, AC-3 up to 690 V

Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	10 mm
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 6) mm ² , ferrule to DIN 46228 1 x (1 - 6) mm ² , ferrule to DIN 46228
TERMINAL CAPACITY (SOLID)	2 x (1 - 6) mm ² 1 x (1 - 6) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable

Trip blocks

OVERLOAD RELEASE CURRENT SETTING - MAX	4 A
OVERLOAD RELEASE CURRENT SETTING - MIN	2.5 A

Resources

BROCHURES	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
	eaton-push-in-technology-product-overview-brochure-br034012-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps
	eaton-manual-motor-starters-characteristic-characteristic-curve-009.eps
DECLARATIONS OF CONFORMITY	eaton-transformer-protective-circuit-breaker-declaration-of-conformity-eu250689en.pdf
	eaton-transformer-protective-circuit-breaker-declaration-of-conformity-uk251172en.pdf
DRAWINGS	eaton-manual-motor-starters-pkz-dimensions.eps
	eaton-manual-motor-starters-pkzm0-characteristic-curve-de.eps
	eaton-manual-motor-starters-pkzm0-dimensions-003.eps
	eaton-manual-motor-starters-pkz-dimensions-002.eps
	eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps
	eaton-manual-motor-starters-pkzm0-3d-drawing-004.eps
	eaton-manual-motor-starters-mounting-3d-drawing-002.eps

	eaton-general-ie-ready-dilm-contactor-standards.eps
ECAD MODEL	ETN.088914.edz
INSTALLATION INSTRUCTIONS	IL03402034Z IL03407011Z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MANUALS AND USER GUIDES	IL122023ZU
MCAD MODEL	eaton-breakers-mcad-drawings-pkzm0.dwg DA-CS-pkzm0
PEP ECO-PASSPORT	eaton-motor-protective-circuit-breakers-pep-eato-00326-v0101-en.pdf
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf
WIRING DIAGRAMS	eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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