

Specifications



Eaton 278492

Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker, 3p, Ir=8-12A

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker
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CATALOG NUMBER	278492
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MODEL CODE	PKZM0-12-T
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EAN	4015082784928
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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	0.29 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, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78

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)** 12 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)** 12 A

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

**RATED OPERATIONAL
POWER AT AC-3E,
380/400 V, 50 HZ** 5.5 kW

**RATED OPERATIONAL
POWER AT AC-3E, 440 V,
50 HZ** 5.5 kW

**RATED OPERATIONAL
POWER AT AC-3E, 500 V,
50 HZ** 5.5 kW

**RATED OPERATIONAL
POWER AT AC-3E, 690 V,
50 HZ** 11 kW

**RATED OPERATIONAL
VOLTAGE (UE) - MAX** 690 V

**RATED OPERATIONAL
VOLTAGE (UE) - MIN** 690 V

**RATED UNINTERRUPTED
CURRENT (IU)** 12 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	6.37 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.21 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	For the protection of transformers with a high inrush current Transformer protection
NUMBER OF POLES	Three-pole

General information	
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP20 Terminals: IP00
LIFESPAN, ELECTRICAL	100,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	100,000 Operations (Main conducting paths)
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	≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range

Short-circuit rating

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 400 V AC** 38 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 440 V AC** 12 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 500 V AC** 4 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 690 V AC** 2 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 400 V AC** 50 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 440 V AC** 15 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 500 V AC** 15 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)**

18 kA, 600 V High Fault,
Fuse, SCCR (UL/CSA) with
600 A, 600 V High Fault,
CB, SCCR (UL/CSA)
18 kA, 600 V High Fault,
CB, SCCR (UL/CSA) with
600 A, 600 V High Fault,
Fuse, SCCR (UL/CSA)
65 kA, 480 V High Fault,
Fuse, SCCR (UL/CSA) with
600 A, 480 V High Fault,
Fuse, SCCR (UL/CSA)
65 kA, 480 V High Fault,
CB, SCCR (UL/CSA) with
600 A, 480 V High Fault,
CB, SCCR (UL/CSA)

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

Switching capacity

SWITCHING CAPACITY 12 A (3 contacts in series),
DC-5 up to 250V
12 A, AC-3 up to 690 V

Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	10 mm
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (1 - 6) mm ² , ferrule to DIN 46228 2 x (1 - 6) mm ² , ferrule to DIN 46228
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm ² 2 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	12 A
OVERLOAD RELEASE CURRENT SETTING - MIN	8 A

Resources

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

	eaton-general-ie-ready-dilm-contactor-standards.eps
ECAD MODEL	ETN.278492.edz
INSTALLATION INSTRUCTIONS	IL03402034Z IL03407011Z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MANUALS AND USER GUIDES	IL122023ZU
MCAD MODEL	DA-CS-pkzm0 eaton-breakers-mcad-drawings-pkzm0.dwg
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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