

Specifications



Eaton 199184

Eaton Moeller® series Motor-protective circuit-breaker; 1.5 kW, 2.5 - 4 A, Feed-side screw terminals/output-side push-in terminals

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
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CATALOG NUMBER	199184
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MODEL CODE	PKZM0-4-SPI16
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EAN	4015081972685
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PRODUCT LENGTH/DEPTH	75 mm
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PRODUCT HEIGHT	94 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.292 kg
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CERTIFICATIONS	IEC/EN 60947 VDE 0660 UL File No.: E36332 IEC/EN 60947-4-1 CSA File No.: 165628 UL Category Control No.: NLRV UL CSA-C22.2 No. 60947-4-1- 14 CSA Class No.: 3211-05 CSA UL 60947-4-1 CE
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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	5.33 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.8 W

Features & functions

ACTUATOR TYPE	Turn button
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
FUNCTIONS	Motor protection Phase failure sensitive
NUMBER OF POLES	Three-pole

General information

CONNECTION	Push-in terminals on output side Screw terminals on feed side
DEGREE OF PROTECTION	Terminals: IP00 IP20
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	III

CATEGORY	
POLLUTION DEGREE	3
PRODUCT CATEGORY	Motor 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 Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660

Motor rating

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE 0.125 HP

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE 0.75 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE 0.33 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE 0.75 HP

ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE 2 HP

ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE 3 HP

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 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 CURRENT RATING (TYPE E)	50 kA, 600 Y/347 V, SCCR (UL/CSA) 65 kA, 240 V, SCCR (UL/CSA) 65 kA, 480 Y/277 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x lu ± 20% tolerance 62 A, I _{rm}

Switching capacity

SWITCHING CAPACITY	4 A, AC-3 up to 690 V
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Terminal capacities

STRIPPING LENGTH (MAIN CABLE)	10 mm
TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals
TERMINAL CAPACITY (FLEXIBLE)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals
TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals

Trip blocks

OVERLOAD RELEASE CURRENT SETTING - MAX	4 A
OVERLOAD RELEASE CURRENT SETTING - MIN	2.5 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A

1 x (1 - 2.5) mm², Push-in
terminals
2 x (1 - 2.5) mm², Push-in
terminals

TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10, screw terminals 20 - 14, Push-in terminals
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable

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
DECLARATIONS OF CONFORMITY	eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251170en.pdf eaton-motor-protective-circuit-breaker-declaration-of-conformity-eu250687en.pdf
DRAWINGS	eaton-manual-motor-starters-pkz-dimensions.eps eaton-manual-motor-starters-pkzm-pkzm0-dimensions-002.eps eaton-manual-motor-starters-pkz-dimensions-002.eps
ECAD MODEL	ETN.199184.edz
INSTALLATION INSTRUCTIONS	IL03407011Z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-breakers-mcad-drawings-pkzm0-s16-pi.dwg pkzm0_s16_pi.stp
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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