

Specifications



Photo is representative



Eaton 283383

Eaton Moeller® series PKZM01 Motor-protective circuit-breaker, 440 V: 11 kW, Ir = 16 - 20 A, IP20

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
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CATALOG NUMBER	283383
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MODEL CODE	PKZM01-20
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EAN	4015082833831
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PRODUCT LENGTH/DEPTH	93 mm
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PRODUCT HEIGHT	90 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.299 kg
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CERTIFICATIONS	CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL File No.: E36332 CSA File No.: 165628 CE CSA UL Category Control No.: NLRV CSA Class No.: 3211-05 VDE 0660 IEC/EN 60947 IEC/EN 60947-4-1 UL
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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

Design verification

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 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

	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	5.82 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.94 W

Electrical rating

RATED FREQUENCY - MAX	60 Hz
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RATED FREQUENCY - MIN	50 Hz
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RATED OPERATIONAL CURRENT (IE)	20 A
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RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	5.5 kW
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RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	9 kW
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RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ	11 kW
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RATED OPERATIONAL VOLTAGE (UE) - MAX	440 V
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RATED OPERATIONAL VOLTAGE (UE) - MIN	440 V
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RATED UNINTERRUPTED CURRENT (IU)	20 A
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Features & functions

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

CONNECTION	Screw terminals
DEGREE OF PROTECTION	Terminals: IP00 IP20
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	50,000 Operations (Main conducting paths)
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
OPERATING FREQUENCY	25 Operations/h
OVERVOLTAGE CATEGORY	III
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	$\leq 0.25\text{ \%}/\text{K}$, residual error for $T > 40^\circ$ -5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range

Motor rating

ASSIGNED MOTOR
POWER AT 115/120 V, 60 HZ, 1-PHASE 1.5 HP

ASSIGNED MOTOR
POWER AT 200/208 V, 60 HZ, 3-PHASE 5 HP

ASSIGNED MOTOR
POWER AT 230/240 V, 60 HZ, 1-PHASE 3 HP

ASSIGNED MOTOR
POWER AT 575/600 V, 60 HZ, 3-PHASE 15 HP

Short-circuit rating

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 400 V AC** 10 kA

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS
AT 440 V AC** 3 kA

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

**RATED SHORT-CIRCUIT
BREAKING CAPACITY ICU
AT 440 V AC** 10 kA

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

**SHORT-CIRCUIT CURRENT
RATING (GROUP
PROTECTION)**

10 kA, 600 V High Fault,
Fuse, SCCR (UL/CSA) with
150 A, 600 V High Fault,
Fuse, SCCR (UL/CSA)
10 kA, 600 V High Fault,
CB, SCCR (UL/CSA) with
125 A, 600 V High Fault,
CB, SCCR (UL/CSA)
18 kA, 600 V High Fault,
Fuse with CL, SCCR
(UL/CSA) with 600 A, 600 V
High Fault, Fuse with CL,
SCCR (UL/CSA)
18 kA, 600 V High Fault, CB
with CL, SCCR (UL/CSA)
with 600 A, 600 V High
Fault, CB with CL, SCCR
(UL/CSA)
18 kA, 480 V High Fault,
CB, SCCR (UL/CSA) with
600 A, 480 V High Fault,
CB, SCCR (UL/CSA)
18 kA, 480 V High Fault,
Fuse, SCCR (UL/CSA) with
600 A, 480 V High Fault,
Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT RELEASE

Basic device fixed 15.5 x lu

± 20% tolerance
310 A, I_{rm}

Switching capacity

SWITCHING CAPACITY 20 A (3 contacts in series),
DC-5 up to 250V
20 A, AC-3 up to 440 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)	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	20 A
OVERLOAD RELEASE CURRENT SETTING - MIN	16 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 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](#)

[Product Range Catalog Switching and protecting motors](#)

CHARACTERISTIC CURVE [eaton-manual-motor-starters-characteristic-characteristic-curve-009.eps](#)

[eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps](#)

DECLARATIONS OF CONFORMITY [eaton-motor-protective-circuit-breaker-declaration-of-conformity-eu250692en.pdf](#)

[eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251175en.pdf](#)

[eaton-manual-motor-starters-circuit-breaker-pkzm01-dimensions.eps](#)

[eaton-general-ie-ready-dilm-contactor-standards.eps](#)

DRAWINGS [eaton-manual-motor-starters-circuit-breaker-pkzm01-3d-drawing-002.eps](#)

[eaton-manual-motor-starters-mounting-3d-drawing-002.eps](#)

[eaton-manual-motor-starters-circuit-breaker-pkzm01-3d-drawing.eps](#)

ECAD MODEL [ETN.283383.edz](#)

INSTALLATION INSTRUCTIONS [IL122012ZU IL03402034Z IL03407011Z.pdf](#)

INSTALLATION VIDEOS	WIN-WIN with push-in technology
MANUALS AND USER GUIDES	IL122023ZU
MCAD MODEL	DA-CS-pkzm01 eaton-breakers-mcad-drawings-pkzm01.dwg
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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