

Specificații



Imaginile sunt doar cu titlu informativ



Eaton 278484

Eaton Moeller® series PKZM01 Motor-protective circuit-breaker, 440 V: 4 kW, $I_r = 6.3 - 10$ A, IP20

Specificații generale

PRODUCT NAME	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
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CATALOG NUMBER	278484
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EAN	4015082784843
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UPC	782116361052
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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	0.304 kg
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CERTIFICATIONS	CE CSA File No.: 165628 IEC/EN 60947 UL Category Control No.: NLRV UL File No.: E36332 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 VDE 0660 CSA Class No.: 3211-05 UL IEC/EN 60947-4-1 CSA
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MODEL CODE	PKZM01-10
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Condiții climatice de mediu

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

Verificarea proiectării

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 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	6.48 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.16 W

Valoare nominală electrică

RATED FREQUENCY - MAX	60 Hz
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RATED FREQUENCY - MIN	50 Hz
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RATED OPERATIONAL CURRENT (IE)	10 A
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RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	2.2 kW
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RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	4 kW
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RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ	4 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)	10 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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Informații generale

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	Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
TEMPERATURE COMPENSATION	-25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660

Capacitatea nominală a motorului

**ASSIGNED MOTOR
POWER AT 115/120 V, 60
HZ, 1-PHASE** 0.5 HP

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

**ASSIGNED MOTOR
POWER AT 230/240 V, 60
HZ, 1-PHASE** 1.5 HP

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

**ASSIGNED MOTOR
POWER AT 460/480 V, 60
HZ, 3-PHASE** 7.5 HP

**ASSIGNED MOTOR
POWER AT 575/600 V, 60
HZ, 3-PHASE** 10 HP

Grad de protecție la scurtcircuit

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC

50 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC

10 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC

50 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC

42 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
150 A, 600 V High Fault,
Fuse, SCCR (UL/CSA)
30 kA, 600 V High Fault,
Fuse, SCCR (UL/CSA) with
600 A, 600 V High Fault,
Fuse, SCCR (UL/CSA)
30 kA, 600 V High Fault,
CB, SCCR (UL/CSA) with
600 A, 600 V High Fault,
CB, SCCR (UL/CSA)

Basic device fixed 15.5 x lu

SHORT-CIRCUIT RELEASE

± 20% tolerance
155 A, I_{rm}

Capacitate de comutare

SWITCHING CAPACITY

10 A (3 contacts in series),
DC-5 up to 250V
10 A, AC-3 up to 440 V

Secțiuni de racordare

STRIPPING LENGTH (MAIN CABLE)

10 mm

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)

1 x (1 - 6) mm², ferrule to
DIN 46228
2 x (1 - 6) mm², ferrule to
DIN 46228

TERMINAL CAPACITY (SOLID)

1 x (1 - 6) mm²
2 x (1 - 6) mm²

TERMINAL CAPACITY (SOLID/STRANDED AWG)

18 - 10

TIGHTENING TORQUE

1.7 Nm, Screw terminals,
Main cable

Bloc de declanșare

OVERLOAD RELEASE CURRENT SETTING - MAX

10 A

OVERLOAD RELEASE CURRENT SETTING - MIN

6.3 A

TRIPPING CHARACTERISTIC

Overload trigger: tripping
class 10 A

Resurse

CHARACTERISTIC CURVE

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

[eaton-manual-motor-starters-characteristic-characteristic-curve-012.eps](#)

DECLARATIONS OF CONFORMITY

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

DESENE

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

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

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

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

INSTRUCȚIUNI DE INSTALARE

[IL03402034Z](#)

[IL03407011Z.pdf](#)

[IL122012ZU](#)

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Irlanda
Eaton.com

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