

# Eaton 072736

Catalog Number: 072736

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 0.75 kW, 1.6 - 2.5 A, Screw terminals

## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller® series PKZM0 Motor-protective circuit-breaker	072736
	<b>Model Code</b>
	PKZM0-2,5
<b>EAN</b>	<b>Product Length/Depth</b>
4015080727361	76 mm
<b>Product Height</b>	<b>Product Width</b>
93 mm	45 mm
<b>Product Weight</b>	<b>Certifications</b>
.287 kg	UL File No.: E36332
	UL Category Control No.: NLRV
	UL 60947-4-1
	CSA
	IEC/EN 60947
	VDE 0660
	CSA-C22.2 No. 60947-4-1-14
	UL
	CE
	CSA File No.: 165628
	IEC/EN 60947-4-1
	CSA Class No.: 3211-05
<b>Model Code</b>	
PKZM0-2,5	



## 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

### Explosion safety category for dust

ATEX dust-ex-protection, PTB 10, ATEX 3013, Ex II(2) GD

### Lifespan, electrical

100,000 operations

### Lifespan, mechanical

100,000 Operations

### 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

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

-5 - 40 °C to IEC/EN 60947, VDE 0660

≤ 0.25 %/K, residual error for T > 40°

## Climatic environmental conditions

### Altitude

## Terminal capacities

### Terminal capacity (flexible with ferrule)

Max. 2000 m

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Ambient operating temperature (enclosed) - min

25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient storage temperature - min

40 °C

Ambient storage temperature - max

80 °C

Climatic proofing

Damp heat, constant, to IEC 60068-2-78

Damp heat, cyclic, to IEC 60068-2-30

1 x (1 - 6) mm<sup>2</sup>, ferrule to DIN 46228

2 x (1 - 6) mm<sup>2</sup>, ferrule to DIN 46228

Terminal capacity (solid)

1 x (1 - 6) mm<sup>2</sup>

2 x (1 - 6) mm<sup>2</sup>

Terminal capacity (solid/stranded AWG)

18 - 10

Stripping length (main cable)

10 mm

Tightening torque

1 Nm, Screw terminals, Control circuit cables

1.7 Nm, Screw terminals, Main cable

## Electrical rating

Rated frequency - min

50 Hz

Rated frequency - max

60 Hz

Rated operational current (I<sub>e</sub>)

2.5 A

Rated operational power at AC-3, 220/230 V, 50 Hz

.37 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

.75 kW

Rated operational voltage (U<sub>e</sub>) - min

690 V

Rated operational voltage (U<sub>e</sub>) - max

690 V

Rated uninterrupted current (I<sub>u</sub>)

2.5 A

## Short-circuit rating

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)

600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA)

## Motor rating

Assigned motor power at 200/208 V, 60 Hz, 3-phase

.5 HP

Assigned motor power at 230/240 V, 60 Hz, 1-phase

.17 HP

50 kA, 600 V High Fault, CB, SCCR (UL/CSA)  
600 A, 600 V High Fault, max. CB, SCCR (UL/CSA)

#### Short-circuit current rating (type E)

Accessories required BK25/3-PKZ0-E  
65 kA, 240 V, SCCR (UL/CSA)  
65 kA, 480 Y/277 V, SCCR (UL/CSA)  
50 kA, 600 Y/347 V, SCCR (UL/CSA)

#### Short-circuit release

Basic device fixed 15.5 x I<sub>n</sub>, Trip Blocks  
38.8 A, I<sub>rm</sub>, Setting range max.  
± 20% tolerance, Trip blocks

### Trip blocks

Overload release current setting - min  
1.6 A

Overload release current setting - max  
2.5 A

#### Tripping characteristic

Overload trigger: tripping class 10 A

Assigned motor power at 230/240 V, 60 Hz, 3-phase  
.5 HP

Assigned motor power at 460/480 V, 60 Hz, 3-phase  
1 HP

Assigned motor power at 575/600 V, 60 Hz, 3-phase  
1.5 HP

### Communication

#### Connection

Screw terminals

### Design verification

Equipment heat dissipation, current-dependent P<sub>vid</sub>  
5.16 W

Heat dissipation capacity P<sub>diss</sub>  
0 W

Heat dissipation per pole, current-dependent P<sub>vid</sub>  
1.72 W

Rated operational current for specified heat dissipation (I<sub>n</sub>)  
2.5 A

Static heat dissipation, non-current-dependent P<sub>vs</sub>  
0 W

#### 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.

### 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.

## Resources

### Brochures

[Motor Starters in System xStart - brochure](#)

[Save time and space thanks to the new link module PKZM0-XDM32ME](#)

### Catalogues

[Product overview for machinery](#)

[Switching and protecting motors - catalog](#)

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

### Certification reports

[DA-DC-00004224.pdf](#)

[DA-DC-00004117.pdf](#)

[0000SPC-571](#)

### Characteristic curve

[121U017](#)

[121U016](#)

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

[121U058](#)

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

[eaton-manual-motor-starters-characteristic-characteristic-curve-010.eps](#)

### Drawings

[121X002](#)

[eaton-manual-motor-starters-pkzm0-dimensions-003.eps](#)

[eaton-manual-motor-starters-pkz-dimensions-002.eps](#)

[121X042](#)

[1210DIM-106](#)

[eaton-manual-motor-starters-pkz-dimensions.eps](#)

[eaton-manual-motor-starters-pkzm0-3d-drawing-004.eps](#)

[eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps](#)

[1210DRW-68](#)

[1210DRW-606](#)

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

[1210CON-20](#)

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

### eCAD model

[DA-CE-ETN.PKZM0-2,5](#)

### Installation instructions

[IL03407011Z](#)

IL03402034Z

mCAD model

DA-CS-pkzm0

DA-CD-pkzm0

User guides

MN03402003Z\_DE\_EN

IL122023ZU

Wiring diagrams

121S028

eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps

121S003

eaton-manual-motor-starters-starter-nzm-mccb-wiring-diagram.eps



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