

# Eaton 072735

Catalog Number: 072735

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 0.55 kW, 1 - 1.6 A, Screw terminals



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller® series PKZM0 Motor-protective circuit-breaker	072735
	<b>Model Code</b>
	PKZM0-1,6
<b>EAN</b>	<b>Product Length/Depth</b>
4015080727354	76 mm
<b>Product Height</b>	<b>Product Width</b>
93 mm	45 mm
<b>Product Weight</b>	<b>Certifications</b>
0.28 kg	IEC/EN 60947
	UL File No.: E36332
	CSA File No.: 165628
	UL Category Control No.: NLRV
	VDE 0660
	CE
	UL
	CSA Class No.: 3211-05
	CSA
	IEC/EN 60947-4-1
	CSA-C22.2 No. 60947-4-1-14
	UL 60947-4-1

## Product specifications

### Rated operational current for specified heat dissipation (In)

1.6 A

### Terminal capacity (flexible with ferrule)

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

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

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### Ambient operating temperature (enclosed) - min

25 °C

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

0.55 kW

### 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)

### Rated short-circuit breaking capacity Ics at 440 V AC

150 kA

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

### Switching capacity

1.6 A (3 contacts in series), DC-5 up to 250V

1.6 A, AC-3 up to 690 V

### Stripping length (main cable)

10 mm

### Ambient operating temperature (enclosed) - max

40 °C

### Rated short-circuit breaking capacity Icu at 400 V AC

150 kA

### 10.2.3.1 Verification of thermal stability of enclosures

## Resources

### Brochures

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

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

### Catalogs

[Switching and protecting motors - catalog](#)

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

### Characteristic curve

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

[eaton-manual-motor-starters-characteristic-characteristic-curve-006.eps](#)

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

### Declarations of conformity

[DA-DC-00004892.pdf](#)

[DA-DC-00004921.pdf](#)

### Drawings

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

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

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

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

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

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

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

### eCAD model

[DA-CE-ETN.PKZM0-1,6](#)

### Installation instructions

[IL03407011Z](#)

[IL03402034Z](#)

### Installation videos

[WIN-WIN with push-in technology](#)

### Manuals and user guides

[eaton-motor-protective-circuit-breaker-pkzm0-overload-monitoring-exe-manual-mn03402003z-de-de-en-us.pdf](#)

[IL122023ZU](#)

### mCAD model

[DA-CD-pkzm0](#)

[DA-CS-pkzm0](#)

### Wiring diagrams

Meets the product standard's requirements.

[eaton-manual-motor-starters-starter-nzm-mccb-wiring-diagram.eps](#)

Ambient storage temperature - min

[eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps](#)

40 °C

Adjustment range undelayed short-circuit release - max

25 A

10.8 Connections for external conductors

Is the panel builder's responsibility.

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

0.75 HP

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Actuator type

Turn button

Rated operational power at AC-3, 440 V, 50 Hz

0.55 kW

Ambient operating temperature - max

55 °C

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

0.25 kW

Climatic proofing

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

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

Device construction

Built-in device fixed built-in technique

Features

Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)

Lifespan, electrical

100,000 operations

Static heat dissipation, non-current-dependent Pvs

0 W

Electrical connection type of main circuit

Screw connection

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Three-pole

#### Rated short-circuit breaking capacity Icu at 690 V AC

150 kA

#### Ambient operating temperature - min

-25 °C

#### 10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

#### Mounting position

Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.

#### Rated uninterrupted current (Iu)

1.6 A

#### Tripping characteristic

Overload trigger: tripping class 10 A

#### Short-circuit release

± 20% tolerance, Trip blocks

24.8 A, I<sub>rm</sub>, Setting range max.

Basic device fixed 15.5 x I<sub>u</sub>, Trip Blocks

#### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

#### 10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### 10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

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

1.79 W

#### Operating frequency

40 Operations/h

#### Product category

Motor protective circuit breaker

#### Short-circuit current rating (group protection)

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

50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA)

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

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

#### Overload release current setting - min

1 A

#### Rated operational power at AC-3, 690 V, 50 Hz

1.1 kW

#### Rated short-circuit breaking capacity $I_{cs}$ at 400 V AC

150 kA

#### Rated short-circuit breaking capacity $I_{cu}$ at 440 V AC

150 kA

#### Equipment heat dissipation, current-dependent $P_{vid}$

5.36 W

#### Heat dissipation capacity $P_{diss}$

0 W

#### Rated operational current ( $I_e$ )

1.6 A

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

0.75 HP

#### Suitable for

Also motors with efficiency class IE3

Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)

#### Internal resistance

700 m $\Omega$

#### Temperature compensation

-5 - 40 °C to IEC/EN 60947, VDE 0660

$\leq 0.25$  %/K, residual error for  $T > 40^\circ$

-25 - 55 °C, Operating range

#### Terminal capacity (solid)

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

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

#### Rated frequency - min

50 Hz

#### Short-circuit current

60 kA DC, up to 250 V DC, Main conducting paths

#### Power loss

5.36 W

### 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.

### Lifespan, mechanical

100,000 Operations

### Terminal capacity (solid/stranded AWG)

18 - 10

### Overload release current setting - max

1.6 A

### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

### Rated short-circuit breaking capacity Ics at 500 V AC

150 kA

### Overvoltage category

III

### Degree of protection

Terminals: IP00

IP20

### Rated frequency - max

60 Hz

### Switch off technique

Thermomagnetic

### Ambient storage temperature - max

80 °C

### Adjustment range undelayed short-circuit release - min

25 A

### Pollution degree

3

### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

### Rated impulse withstand voltage (Uimp)

6000 V AC

### Connection

Screw terminals

### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Functions

Phase failure sensitive

Motor protection

#### Tightening torque

1.7 Nm, Screw terminals, Main cable

1 Nm, Screw terminals, Control circuit cables

#### Rated short-circuit breaking capacity $I_{cu}$ at 500 V AC

150 kA

#### Rated operational voltage ( $U_e$ ) - min

690 V

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

0.1 HP

#### Explosion safety category for dust

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

#### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

#### 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

#### 10.2.7 Inscriptions

Meets the product standard's requirements.

#### Rated short-circuit breaking capacity $I_{cs}$ at 690 V AC

150 kA

#### Rated operational power at AC-3, 500 V, 50 Hz

0.75 kW

#### Shock resistance

25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

#### Rated operational voltage ( $U_e$ ) - max

690 V

#### Altitude

Max. 2000 m



Eaton Corporation plc  
Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com  
© 2023 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)