

# Eaton 072733

Catalog Number: 072733

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 0.12 kW, 0.4 - 0.63 A, Screw terminals

## General specifications

Product Name	Catalog Number
Eaton Moeller® series PKZM0 Motor-protective circuit-breaker	072733
	Model Code
	PKZM0-0,63
EAN	Product Length/Depth
4015080727330	76 mm
Product Height	Product Width
93 mm	45 mm
Product Weight	Certifications
.246 kg	UL
	CE
	CSA
	UL 60947-4-1
	CSA File No.: 165628
	IEC/EN 60947
	UL Category Control No.: NLRV
	CSA Class No.: 3211-05
	CSA-C22.2 No. 60947-4-1-14
	VDE 0660
	IEC/EN 60947-4-1
	UL File No.: E36332



## Product specifications

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

.63 A

### Terminal capacity (flexible with ferrule)

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

2 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

.12 kW

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

50 kA, 600 Y/347 V, SCCR (UL/CSA)

Accessories required BK25/3-PKZ0-E

65 kA, 480 Y/277 V, SCCR (UL/CSA)

65 kA, 240 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

0.63 A, AC-3 up to 690 V

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

### 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

Save time and space thanks to the new link module PKZM0-XDM32ME

Motor Starters in System xStart - brochure

### Catalogs

Product overview for machinery

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

### Certification reports

DA-DC-00004117.pdf

DA-DC-00004224.pdf

0000SPC-571

### Characteristic curve

eaton-manual-motor-starters-characteristic-characteristic-curve-004.eps

121U017

121U055

121U016

eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps

eaton-manual-motor-starters-characteristic-characteristic-curve-009.eps

### Drawings

121X002

121X042

1210DIM-106

eaton-manual-motor-starters-pkz-dimensions.eps

eaton-manual-motor-starters-pkz-dimensions-002.eps

eaton-manual-motor-starters-pkzm0-dimensions-003.eps

1210DRW-606

1210CON-20

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

1210DRW-68

eaton-manual-motor-starters-mounting-3d-drawing-002.eps

### eCAD model

DA-CE-ETN.PKZM0-0,63

### Installation instructions

IL03407011Z

Meets the product standard's requirements.

[IL03402034Z](#)

[Ambient storage temperature - min](#)

[mCAD model](#)

40 °C

[DA-CS-pkzm0](#)

[Adjustment range undelayed short-circuit release - max](#)

[DA-CD-pkzm0](#)

9.8 A

[User guides](#)

[10.8 Connections for external conductors](#)

[IL122023ZU](#)

Is the panel builder's responsibility.

[MN03402003Z\\_DE\\_EN](#)

[Rated short-circuit breaking capacity at 400 V AC](#)

[Wiring diagrams](#)

150 kA

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

[Protection](#)

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

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

[121S003](#)

[121S028](#)

[Actuator type](#)

Turn button

[Rated operational power at AC-3, 440 V, 50 Hz](#)

.18 kW

[Ambient operating temperature - max](#)

55 °C

[Rated operational power at AC-3, 220/230 V, 50 Hz](#)

.09 kW

[Climatic proofing](#)

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

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

[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)

.63 A

#### Tripping characteristic

Overload trigger: tripping class 10 A

#### Short-circuit release

± 20% tolerance, Trip blocks

Basic device fixed 15.5 x Iu, Trip Blocks

9.8 A, Irm, Setting range max.

#### 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 Pvid

1.72 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)

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

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

#### Overload release current setting - min

.4 A

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

.25 kW

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

150 kA

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

150 kA

#### Equipment heat dissipation, current-dependent Pvid

5.16 W

#### Heat dissipation capacity Pdis

0 W

#### Rated operational current (Ie)

0.63 A

#### Suitable for

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

Also motors with efficiency class IE3

#### Internal resistance

4200 m $\Omega$

#### Temperature compensation

-25 - 55 °C, Operating range

-5 - 40 °C to IEC/EN 60947, VDE 0660

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

#### Terminal capacity (solid)

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

2 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

#### 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

.63 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

IP20

Terminals: IP00

#### Rated frequency - max

60 Hz

#### Switch off technique

Thermomagnetic

#### Ambient storage temperature - max

80 °C

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

9.8 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

Motor protection

Phase failure sensitive

#### Tightening torque

1.7 Nm, Screw terminals, Main cable

1 Nm, Screw terminals, Control circuit cables

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

150 kA

#### Rated operational voltage (Ue) - min

690 V

#### 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 Ics at 690 V AC

150 kA

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

.25 kW

#### Shock resistance

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

#### Rated operational voltage (Ue) - max

690 V

#### Altitude

Max. 2000 m