Product specifications

Eaton 199156

Catalog Number: 199156

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 2.2 kW, 4 - 6.3 A, Push in terminals

General specifications

Product Name
Eaton Moeller® series PKZM0 Motor-protective circuit-breaker

Catalog Number
199156

Model Code
PKZM0-6,3-PI

EAN
4015081972401

Product Length/Depth
75 mm

Product Height
109 mm

Product Width
45 mm

Product Weight
0.343 kg

Certifications
IEC/EN 60947
VDE 0660
UL
CSA
IEC/EN 60947-4-1
UL 60947-4-1
CSA-C22.2 No. 60947-4-1-14
CE
UL File No.: E36332
UL Category Control No.: NLRV
CSA File No.: 165628
CSA Class No.: 3211-05

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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

Lifespan, electrical

100,000 operations

Lifespan, mechanical

100,000 Operations

Mounting Method

DIN rail (top hat rail) mounting optional

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

Also motors with efficiency class IE3

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

Temperature compensation

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

-5 - 40 °C to IEC/EN 60947, VDE 0660

-25 - 55 °C, Operating range

Climatic environmental conditions

Altitude

Terminal capacities

Terminal capacity (flexible)

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, cyclic, to IEC 60068-2-30

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

1 x (1 - 6) mm²

Terminal capacity (solid/stranded AWG)

18 - 8

Stripping length (main cable)

12 mm

Electrical rating

Rated frequency - min

50 Hz

Rated frequency - max

60 Hz

Rated operational current (Ie)

6.3 A

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

1.1 kW

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

2.2 kW

Rated operational voltage (Ue) - min

690 V

Rated operational voltage (Ue) - max

690 V

Rated uninterrupted current (Iu)

6.3 A

Short-circuit rating

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)

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)

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

65 kA, 240 V, SCCR (UL/CSA)

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

Short-circuit release

97.7 A, Irm, Setting range max.

± 20% tolerance, Trip blocks

Motor rating

Assigned motor power at 115/120 V, 60 Hz, 1-phase

0.25 HP

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

1 HP

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

0.5 HP

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

1.5 HP

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

3 HP

Basic device fixed 15.5 x Iu, Trip Blocks

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

5 HP

Communication

Connection

Push in terminals

Contacts

Number of auxiliary contacts (change-over contacts)

0

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

0

Trip blocks

Overload release current setting - min

6.3 A

Overload release current setting - max

6.3 A

Tripping characteristic

Overload trigger: tripping class 10 A

Design verification

Equipment heat dissipation, current-dependent Pvid

5.68 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Static heat dissipation, non-current-dependent Pvs

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

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

Motor Starters in System xStart - brochure

Catalogues

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

Drawings

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

121X002

121X042

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

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

eCAD model

ETN.PKZM0-6,3-PI.edz

Installation instructions

IL122024ZU

Installation videos

WIN-WIN with push-in technology

mCAD model

pkzm0_pi.stp

motorschutzschalter_bis_32a_pi.dwg

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