Spécifications

Eaton 072737

Catalog Number: 072737

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 1.5 kW, 2.5 - 4 A, Screw terminals



La photo est représentative

Spécifications générales

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

Catalog Number
072737

Model Code
PKZM0-4

EAN
4015080727378

Product Length/Depth
76 mm

Product Height
93 mm

Product Width
45 mm

Product Weight
0.284 kg

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

Powering Business Worldwide

Features & Functions

Actuator type

Turn button

Features

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

Functions

Phase failure sensitive

Motor protection

Number of poles

Three-pole

General

Connection

Screw terminals

Explosion safety category for dust

PTB 10, ATEX 3013

Ex II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]

Ex II (2) D [Ex tb Db] [Ex pxb Db]

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

-5 - 40 °C to IEC/EN 60947, VDE 0660

-25 - 55 °C, Operating range

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

Climatic environmental conditions

Altitude

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

Terminal capacities

Terminal capacity (solid)

1 x (1 - 6) mm²

2 x (1 - 6) mm²

Terminal capacity (solid/stranded AWG)

18 - 10

Stripping length (main cable)

10 mm

Tightening torque

1.7 Nm, Screw terminals, Main cable

1 Nm, Screw terminals, Control circuit cables

Electrical rating

Rated frequency - min

50 Hz

Rated frequency - max

60 Hz

Rated operational current (Ie)

4 A

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

0.75 kW

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

1.5 kW

Rated operational voltage (Ue) - min

690 V

Rated operational voltage (Ue) - max

690 V

Rated uninterrupted current (Iu)

4 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) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA)

Motor rating

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

0.125 HP

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

0.75 HP

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

Short-circuit current rating (type E)

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

Short-circuit release

± 20% tolerance, Trip blocks
Basic device fixed 15.5 x Iu, Trip Blocks
62 A, Irm, Setting range max.

Rated short-circuit breaking capacity Ics at 400 V AC

150 kA

Rated short-circuit breaking capacity Icu at 400 V AC

150 kA

Rated short-circuit breaking capacity Icu at 440 V AC

150 kA

Rated short-circuit breaking capacity Ics at 440 V AC

150 kA

Rated short-circuit breaking capacity Icu at 500 V AC

150 kA

Rated short-circuit breaking capacity Ics at 500 V AC

150 kA

Rated short-circuit breaking capacity Icu at 690 V AC

3 kA

Rated short-circuit breaking capacity Ics at 690 V AC

3 kA

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

0.33 HP

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

0.75 HP

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

2 HP

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

3 HP

Trip blocks

Overload release current setting - min

2.5 A

Overload release current setting - max

4 A

Tripping characteristic

Overload trigger: tripping class 10 A

Design verification

Equipment heat dissipation, current-dependent Pvid

5.33 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

1.78 W

Rated operational current for specified heat dissipation (In)

4 A

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.

Ressources

Characteristic curve

121U059

121U017

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

121U016

eaton-manual-motor-starters-characteristic-characteristic-curve-011.eps

Declarations of conformity

DA-DC-00005040.pdf

DA-DC-00005041.pdf

eCAD model

ETN.072737.edz

DA-CE-ETN.PKZM0-4

Guide utilisateur

IL122023ZU

Instructions d'installation

IL03402034Z

IL03407011Z.pdf

mCAD model

eaton-cadenas-front_view-pkzm0_front.pra

eaton-cadenas-side_view-pkzm0_side.pra

eaton-cadenas-path-01-geo-pkzm0.3db

DA-CD-pkzm0

DA-CS-pkzm0

Rapports de certification

0000SPC-571

Schémas

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

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

121X002

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

1210DIM-106

121X042

Schémas

1210DRW-606

1210CON-20

1210DRW-68

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.

eaton-manual-motor-starters-pkzm0-3d-drawing-004.eps

eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps

Schémas électriques

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

121S003

121S028

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

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Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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