

# Specifications

Photo is representative

## Eaton 039426

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 3p+1N/O+1N/C, Ir=2.5-4A, screw connection

### General specifications

|                             |                                                                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Moeller® series PKZM0 Motor-protective circuit-breaker                                                                                                                                                            |
| <b>CATALOG NUMBER</b>       | 039426                                                                                                                                                                                                                  |
| <b>EAN</b>                  | 4015080394266                                                                                                                                                                                                           |
| <b>PRODUCT LENGTH/DEPTH</b> | 76 mm                                                                                                                                                                                                                   |
| <b>PRODUCT HEIGHT</b>       | 93 mm                                                                                                                                                                                                                   |
| <b>PRODUCT WIDTH</b>        | 54 mm                                                                                                                                                                                                                   |
| <b>PRODUCT WEIGHT</b>       | 0.323 kg                                                                                                                                                                                                                |
| <b>CERTIFICATIONS</b>       | CSA File No.: 165628<br>UL 60947-4-1<br>CE<br>CSA Class No.: 3211-05<br>CSA-C22.2 No. 60947-4-1-14<br>UL<br>UL Category Control No.: NLRV<br>VDE 0660<br>CSA<br>UL File No.: E36332<br>IEC/EN 60947-4-1<br>IEC/EN 60947 |
| <b>MODEL CODE</b>           | PKZM0-4/NHI11                                                                                                                                                                                                           |

## Features & Functions

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>ACTUATOR TYPE</b>   | Turn button                                                                  |
| <b>FEATURES</b>        | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| <b>FITTED WITH:</b>    | Auxiliary switch                                                             |
| <b>FUNCTIONS</b>       | Phase failure sensitive<br>Motor protection                                  |
| <b>NUMBER OF POLES</b> | Three-pole                                                                   |

## General

|                                               |                                                                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EXPLOSION SAFETY CATEGORY FOR DUST</b>     | PTB 10, ATEX 3013<br>Ex II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb]<br>Ex II (2) D [Ex tb Db] [Ex pxb Db]                                    |
| <b>LIFESPAN, ELECTRICAL</b>                   | 100,000 operations                                                                                                                          |
| <b>LIFESPAN, MECHANICAL</b>                   | 100,000 Operations                                                                                                                          |
| <b>MOUNTING POSITION</b>                      | Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.                                                                    |
| <b>OPERATING FREQUENCY</b>                    | 40 Operations/h                                                                                                                             |
| <b>OVERVOLTAGE CATEGORY</b>                   | III                                                                                                                                         |
| <b>POLLUTION DEGREE</b>                       | 3                                                                                                                                           |
| <b>PRODUCT CATEGORY</b>                       | Motor protective circuit breaker                                                                                                            |
| <b>PROTECTION</b>                             | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)                                        |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V AC                                                                                                                                   |
| <b>SHOCK RESISTANCE</b>                       | 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms                                                               |
| <b>SUITABLE FOR</b>                           | Also motors with efficiency class IE3<br>Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA) |
| <b>TEMPERATURE COMPENSATION</b>               | -5 - 40 °C to IEC/EN 60947, VDE 0660<br>≤ 0.25 %/K, residual error for T > 40°<br>-25 - 55 °C, Operating range                              |

## Climatic environmental conditions

|                                                       |                                                                                |
|-------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>ALTITUDE</b>                                       | Max. 2000 m                                                                    |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b>            | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b>            | 55 °C                                                                          |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b> | -25 °C                                                                         |
| <b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b> | 40 °C                                                                          |
| <b>AMBIENT STORAGE TEMPERATURE - MIN</b>              | -40 °C                                                                         |
| <b>AMBIENT STORAGE TEMPERATURE - MAX</b>              | 80 °C                                                                          |
| <b>CLIMATIC PROOFING</b>                              | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30 |

## Electrical rating

|                                                          |         |
|----------------------------------------------------------|---------|
| <b>RATED FREQUENCY - MIN</b>                             | 50 Hz   |
| <b>RATED FREQUENCY - MAX</b>                             | 60 Hz   |
| <b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b> | 0.75 kW |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b> | 1.5 kW  |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MIN</b>              | 690 V   |
| <b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>              | 690 V   |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>                  | 4 A     |

## Terminal capacities

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b> | 18 - 10<br>18 - 14                                                                   |
| <b>STRIPPING LENGTH (MAIN CABLE)</b>          | 10 mm                                                                                |
| <b>TIGHTENING TORQUE</b>                      | 1 Nm, Screw terminals, Control circuit cables<br>1.7 Nm, Screw terminals, Main cable |

## Short-circuit rating

|                                                        |                                                                                                                                                                                              |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SHORT-CIRCUIT CURRENT</b>                           | 60 kA DC, up to 250 V DC, Main conducting paths                                                                                                                                              |
| <b>SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)</b> | 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA)<br>50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA) |
| <b>SHORT-CIRCUIT CURRENT RATING (TYPE E)</b>           | 65 kA, 480 Y/277 V, SCCR (UL/CSA)<br>65 kA, 240 V, SCCR (UL/CSA)<br>Accessories required BK25/3-PKZ0-E<br>50 kA, 600 Y/347 V, SCCR (UL/CSA)                                                  |
| <b>SHORT-CIRCUIT RELEASE</b>                           | Basic device fixed 15.5 x lu<br>± 20% tolerance<br>62 A, I <sub>rm</sub>                                                                                                                     |

## Motor rating

|                                                         |          |
|---------------------------------------------------------|----------|
| ASSIGNED MOTOR<br>POWER AT 115/120 V, 60<br>HZ, 1-PHASE | 0.125 HP |
|---------------------------------------------------------|----------|

|                                                         |         |
|---------------------------------------------------------|---------|
| ASSIGNED MOTOR<br>POWER AT 200/208 V, 60<br>HZ, 3-PHASE | 0.75 HP |
|---------------------------------------------------------|---------|

|                                                         |         |
|---------------------------------------------------------|---------|
| ASSIGNED MOTOR<br>POWER AT 230/240 V, 60<br>HZ, 1-PHASE | 0.33 HP |
|---------------------------------------------------------|---------|

|                                                         |         |
|---------------------------------------------------------|---------|
| ASSIGNED MOTOR<br>POWER AT 230/240 V, 60<br>HZ, 3-PHASE | 0.75 HP |
|---------------------------------------------------------|---------|

|                                                         |      |
|---------------------------------------------------------|------|
| ASSIGNED MOTOR<br>POWER AT 460/480 V, 60<br>HZ, 3-PHASE | 2 HP |
|---------------------------------------------------------|------|

|                                                         |      |
|---------------------------------------------------------|------|
| ASSIGNED MOTOR<br>POWER AT 575/600 V, 60<br>HZ, 3-PHASE | 3 HP |
|---------------------------------------------------------|------|

## Contacts

|                                                            |   |
|------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (CHANGE-<br>OVER CONTACTS) | 0 |
|------------------------------------------------------------|---|

|                                                               |   |
|---------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>CLOSED CONTACTS) | 1 |
|---------------------------------------------------------------|---|

|                                                             |   |
|-------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>OPEN CONTACTS) | 1 |
|-------------------------------------------------------------|---|

## Communication

|            |                 |
|------------|-----------------|
| CONNECTION | Screw terminals |
|------------|-----------------|

## Trip blocks

|                                           |       |
|-------------------------------------------|-------|
| OVERLOAD RELEASE<br>CURRENT SETTING - MIN | 2.5 A |
|-------------------------------------------|-------|

|                                           |     |
|-------------------------------------------|-----|
| OVERLOAD RELEASE<br>CURRENT SETTING - MAX | 4 A |
|-------------------------------------------|-----|

|                            |                                          |
|----------------------------|------------------------------------------|
| TRIPPING<br>CHARACTERISTIC | Overload trigger: tripping<br>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.

## Resources

### BROCHURES

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

### CATALOGUES

[eaton-switching-and-protecting-motors-product-range-catalog-ca034001en-en-us.pdf](#)

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

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

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

### CHARACTERISTIC CURVE

[eaton-manual-motor-starters-characteristic-characteristic-curve-011.eps](#)

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

### DECLARATIONS OF CONFORMITY

[DA-DC-00005040.pdf](#)

[DA-DC-00005041.pdf](#)

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

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

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

### DRAWINGS

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

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

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

|                                                                 |                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>        | Is the panel builder's responsibility.                                                                                           |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Is the panel builder's responsibility.                                                                                           |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Is the panel builder's responsibility.                                                                                           |
| <b>10.10 TEMPERATURE RISE</b>                                   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                               | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                      | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

|                                  |                                                                                     |
|----------------------------------|-------------------------------------------------------------------------------------|
|                                  | <a href="#">eaton-manual-motor-starters-circuit-breaker-pkzm0-3d-drawing.eps</a>    |
| <b>ECAD MODEL</b>                | <a href="#">eaton-pkzm0-motor-protective-circuit-breaker-eplan-039426.edz</a>       |
| <b>INSTALLATION INSTRUCTIONS</b> | <a href="#">IL03407011Z.pdf</a><br><a href="#">IL03402034Z</a>                      |
| <b>INSTALLATION VIDEOS</b>       | <a href="#">WIN-WIN with push-in technology</a><br><a href="#">IL122023ZU</a>       |
| <b>MANUALS AND USER GUIDES</b>   | <a href="#">eaton-motor-protection-pkzm0-mn03402003z-de-de-en-us.pdf</a>            |
| <b>MCAD MODEL</b>                | <a href="#">DA-CD-pkzm0_nhi11</a><br><a href="#">DA-CS-pkzm0_nhi11</a>              |
| <b>SALES NOTES</b>               | <a href="#">eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf</a> |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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