

## Eaton 072734

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 0.25 kW, 0.63 - 1 A, Screw terminals

### General specifications

|                                 |                                                                                                                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>PKZM0 Motor-protective<br>circuit-breaker                                                                                                                                                             |
| <b>CATALOG NUMBER</b>           | 072734                                                                                                                                                                                                                         |
| <b>EAN</b>                      | 4015080727347                                                                                                                                                                                                                  |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 76 mm                                                                                                                                                                                                                          |
| <b>PRODUCT HEIGHT</b>           | 93 mm                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>           | 0.247 kg                                                                                                                                                                                                                       |
| <b>CERTIFICATIONS</b>           | UL Category Control No.:<br>NLRV<br>VDE 0660<br>CSA-C22.2 No. 60947-4-1-<br>14<br>IEC/EN 60947<br>CSA File No.: 165628<br>UL<br>CSA<br>CE<br>CSA Class No.: 3211-05<br>IEC/EN 60947-4-1<br>UL 60947-4-1<br>UL File No.: E36332 |
| <b>MODEL CODE</b>               | PKZM0-1                                                                                                                                                                                                                        |

## 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>FUNCTIONS</b>       | Phase failure sensitive<br>Motor protection                                  |
| <b>NUMBER OF POLES</b> | Three-pole                                                                   |

## General

|                                               |                                                                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONNECTION</b>                             | Screw terminals                                                                                                                             |
| <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>                           | Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)<br>Also motors with efficiency class IE3 |
| <b>TEMPERATURE COMPENSATION</b>               | -25 - 55 °C, Operating range<br>-5 - 40 °C to IEC/EN 60947, VDE 0660<br>≤ 0.25 %/K, residual error for T > 40°                              |

## 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 CURRENT (IE)</b>                     | 1 A     |
| <b>RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ</b> | 0.12 kW |
| <b>RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ</b> | 0.25 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>                   | 1 A     |

## Terminal capacities

|                                               |                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------|
| <b>TERMINAL CAPACITY (SOLID)</b>              | 1 x (1 - 6) mm <sup>2</sup><br>2 x (1 - 6) mm <sup>2</sup>                           |
| <b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b> | 18 - 10                                                                              |
| <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>Accessories required BK25/3-PKZ0-E<br>65 kA, 240 V, SCCR (UL/CSA)<br>50 kA, 600 Y/347 V, SCCR (UL/CSA)                                                  |
| <b>SHORT-CIRCUIT RELEASE</b>                                 | Basic device fixed 15.5 x Iu<br>± 20% tolerance<br>15.5 A, I <sub>rm</sub>                                                                                                                   |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC</b> | 150 kA                                                                                                                                                                                       |
| <b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU</b>             | 150 kA                                                                                                                                                                                       |

|                                                                      |        |
|----------------------------------------------------------------------|--------|
| <b>AT 400 V AC</b>                                                   |        |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>AT 440 V AC</b> | 150 kA |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>AT 440 V AC</b> | 150 kA |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>AT 500 V AC</b> | 150 kA |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>AT 500 V AC</b> | 150 kA |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICU<br/>AT 690 V AC</b> | 150 kA |
| <b>RATED SHORT-CIRCUIT<br/>BREAKING CAPACITY ICS<br/>AT 690 V AC</b> | 150 kA |

| Trip blocks                                       |                                          |
|---------------------------------------------------|------------------------------------------|
| <b>OVERLOAD RELEASE<br/>CURRENT SETTING - MIN</b> | 0.63 A                                   |
| <b>OVERLOAD RELEASE<br/>CURRENT SETTING - MAX</b> | 1 A                                      |
| <b>TRIPPING<br/>CHARACTERISTIC</b>                | Overload trigger: tripping<br>class 10 A |

| Design verification                                                                           |                                               |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>EQUIPMENT HEAT<br/>DISSIPATION, CURRENT-<br/>DEPENDENT PVID</b>                            | 5.33 W                                        |
| <b>HEAT DISSIPATION<br/>CAPACITY PDISS</b>                                                    | 0 W                                           |
| <b>HEAT DISSIPATION PER<br/>POLE, CURRENT-<br/>DEPENDENT PVID</b>                             | 1.78 W                                        |
| <b>RATED OPERATIONAL<br/>CURRENT FOR SPECIFIED<br/>HEAT DISSIPATION (IN)</b>                  | 1 A                                           |
| <b>STATIC HEAT<br/>DISSIPATION, NON-<br/>CURRENT-DEPENDENT<br/>PVS</b>                        | 0 W                                           |
| <b>10.2.2 CORROSION<br/>RESISTANCE</b>                                                        | Meets the product<br>standard's requirements. |
| <b>10.2.3.1 VERIFICATION OF<br/>THERMAL STABILITY OF<br/>ENCLOSURES</b>                       | Meets the product<br>standard's requirements. |
| <b>10.2.3.2 VERIFICATION OF<br/>RESISTANCE OF<br/>INSULATING MATERIALS<br/>TO NORMAL HEAT</b> | Meets the product<br>standard's requirements. |
| <b>10.2.3.3 RESIST. OF<br/>INSUL. MAT. TO<br/>ABNORMAL HEAT/FIRE<br/>BY INTERNAL ELECT.</b>   | Meets the product<br>standard's requirements. |

| <b>EFFECTS</b>                                                  |                                                                                                                                  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                           | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                 | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                   | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <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. |

**CHARACTERISTIC CURVE**

[eaton-manual-motor-starters-characteristic-characteristic-curve-005.eps](#)

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

**DEKLARACJE ZGODNOŚCI**

[eaton-motor-protective-circuit-breaker-declaration-of-conformity-eu250684en.pdf](#)

**INSTRUKCJE MONTAŻU**

[IL03407011Z.pdf](#)

[IL03402034Z](#)

**INSTRUKCJE OBSŁUGI**

[IL122023ZU](#)

**MODELE ECAD**

[ETN.072734.edz](#)

**MODELE MCAD**

[DA-CD-pkzm0](#)

[DA-CS-pkzm0](#)

**RYSUNKI**

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

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

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

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

**SCHEMATY POŁĄCZEŃ**

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

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

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATA:**

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