Specifications

Photo is representative

Eaton 199170

Eaton Moeller® series PKZM0 Transformerprotective circuit-breaker, 2.5 - 4 A, Push in terminals

| General specification | S |
|-------------------------|---|
| PRODUCT NAME | Eaton Moeller® series PKZM0 Transformer- protective circuit-breaker |
| CATALOG NUMBER | 199170 |
| EAN | 4015081972548 |
| PRODUCT LENGTH/DEPTH | 75 mm |
| PRODUCT HEIGHT | 109 mm |
| PRODUCT WIDTH | 45 mm |
| PRODUCT WEIGHT | 0.337 kg |
| CERTIFICATIONS | IEC/EN 60947 VDE 0660 CE UL CSA IEC/EN 60947-4-1 CSA Class No.: 3211-05 CSA File No.: 165628 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332 |
| MODEL CODE | PKZM0-4-T-PI |



| Features & Function | ns |
|---------------------|---|
| ACTUATOR TYPE | Turn button |
| FEATURES | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| FUNCTIONS | For the protection of transformers with a high inrush current Transformer protection |
| 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 | Ш |
| POLLUTION DEGREE | 3 |
| PRODUCT CATEGORY | Transformer 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 |
| 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 environmer | ntal 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 (FLEXIBLE WITH UNISOLATED FERRULE) | 1 x (1 - 6) mm ² 2 x (1 - 6) mm ² |
| TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END) | 1 x (1 - 10) mm ² 2 x (1 - 6) mm ² |
| TERMINAL CAPACITY (FLEXIBLE) | 1 x (1 - 6) mm ² , Push-in terminals 2 x (1 - 6) mm ² , Push-in terminals 1 x (1 - 6) mm ² 2 x (1 - 6) mm ² |
| 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 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 RATING (GROUP PROTECTION) | 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA) |
| SHORT-CIRCUIT RELEASE | Basic device, fixed 20 x lu ± 20% tolerance 84 A, Irm |
| | |

| 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 |
| 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 |

| Communication | | |
|---------------|-------------------|--|
| CONNECTION | Push in terminals | |
| 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 | 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 | 1.8 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. |

| Description | |
|----------------------------------|--|
| Resources | |
| BROCHURES | eaton-motor-starters-system-xstart- brochure-br03407001en-en-us.pdf |
| CATALOGUES | Product Range Catalog Switching and protecting motors |
| | eaton-product-overview-for- machinery-catalogue- ca08103003zen-en-us.pdf |
| | Switching and protecting motors - catalog |
| DECLARATIONS OF CONFORMITY | DA-DC-00004916.pdf |
| | DA-DC-00004885.pdf |
| | DA-DC-00004316.pdf |
| DRAWINGS | eaton-manual-motor-starters-pkzm- pkzm0-dimensions.eps |
| ECAD MODEL | ETN.199170.edz |
| INSTALLATION INSTRUCTIONS | <u>IL122024ZU</u> |
| INSTALLATION VIDEOS | WIN-WIN with push-in technology |
| MCAD MODEL | motorschutzschalter bis 32a pi.dwg |
| | pkzm0 pi.stp |
| SALES NOTES | eaton-link-module-for-motor- starters-pkz-flyer-fl034003en-en- us.pdf |

| Does not apply, since the entire switchgear needs to be evaluated. |
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| ls the panel builder's responsibility. |
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| The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |
| |

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



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