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Eaton 286088

Eaton Moeller® series PKZM01 Motor-protective circuit-breaker, 440 V: 5.5 kW, Ir = 8 - 12 A, IP65

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| PRODUCT NAME | Eaton Moeller® series PKZM01 Motor-protective circuit-breaker |
| CATALOG NUMBER | 286088 |
| PRODUCT LENGTH/DEPTH | 158 mm |
| PRODUCT HEIGHT | 80 mm |
| PRODUCT WIDTH | 117 mm |
| PRODUCT WEIGHT | 0.596 kg |
| COMPLIANCES | CE Marked |
| CERTIFICATIONS | IEC 60947-4-1 CSA Std. C22.2 No. 14 UL 508 VDE VDE 0660 IEC/EN 60947 |

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| FEATURES | Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) |
| 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. |
| 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 | Does not apply, since the entire switchgear needs to |

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| CHARACTERISTIC CURVE | eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps eaton-motorstarters-tripping-characteristic-pkzm0-characteristic-curve.eps |
| DECLARATIONS OF CONFORMITY | eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251175en.pdf |

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| ASSEMBLIES | 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. |
| FITTED WITH: | Operating membrane |
| OPERATING FREQUENCY | 25 Operations/h |
| POLLUTION DEGREE | 3 |
| ACTUATOR TYPE | Push button |
| TRIPPING CHARACTERISTIC | Overload trigger: tripping class 10 A |
| ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX | 186 A |
| ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN | 186 A |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX | 40 °C |
| AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN | -25 °C |
| AMBIENT STORAGE TEMPERATURE - MAX | 80 °C |
| AMBIENT STORAGE TEMPERATURE - MIN | -40 °C |
| EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID | 6.64 W |
| HEAT DISSIPATION CAPACITY PDISS | 0 W |
| HEAT DISSIPATION PER POLE, CURRENT- | 2.21 W |

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| DEPENDENT PVID | |
| INTERNAL RESISTANCE | 15 mΩ |
| RATED IMPULSE WITHSTAND VOLTAGE (UIMP) | 6000 V AC |
| ALTITUDE | Max. 2000 m |
| DEVICE CONSTRUCTION | Complete device in housing |
| CONNECTION | Screw terminals |
| ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT | Screw connection |
| MOUNTING POSITION | Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. |
| LIFESPAN, MECHANICAL | 50,000 Operations (Main conducting paths) |
| OVERVOLTAGE CATEGORY | III |
| DEGREE OF PROTECTION | IP65 |
| NUMBER OF POLES | Three-pole |
| LIFESPAN, ELECTRICAL | 50,000 operations (at 400V, AC-3) |
| SHOCK RESISTANCE | 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms |
| FUNCTIONS | Phase failure sensitive Motor protection |
| TERMINAL CAPACITY (SOLID/STRANDED AWG) | 18 - 10 |
| SWITCHING CAPACITY | 12 A, AC-3 up to 440 V |
| OVERLOAD RELEASE CURRENT SETTING - MAX | 12 A |
| OVERLOAD RELEASE CURRENT SETTING - MIN | 8 A |
| RATED FREQUENCY - MAX | 60 Hz |
| RATED FREQUENCY - MIN | 50 Hz |
| RATED OPERATIONAL VOLTAGE (UE) - MAX | 440 V |
| RATED OPERATIONAL VOLTAGE (UE) - MIN | 440 V |
| RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) | 12 A |
| RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ | 3 kW |

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| RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ | 5.5 kW |
| RATED UNINTERRUPTED CURRENT (IU) | 12 A |
| STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS | 0 W |
| STRIPPING LENGTH (MAIN CABLE) | 10 mm |
| PRODUCT CATEGORY | Motor protective circuit breaker |
| PROTECTION | Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) |
| RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ | 5.5 kW |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC | 50 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC | 10 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC | 15 kA |
| RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC | 10 kA |
| SUITABLE FOR | Also motors with efficiency class IE3 |
| SHORT-CIRCUIT RELEASE | Basic device fixed 15.5 x lu ± 20% tolerance 186 A, I _{rm} |
| TERMINAL CAPACITY (SOLID) | 1 x (1 - 6) mm ² 2 x (1 - 6) mm ² |
| RATED OPERATIONAL CURRENT (IE) | 12 A |
| SHORT-CIRCUIT CURRENT | 60 kA DC, up to 250 V DC, Main conducting paths |
| TIGHTENING TORQUE | 1.7 Nm, Screw terminals, Main cable |
| SWITCH OFF TECHNIQUE | Thermomagnetic |
| TERMINAL CAPACITY (FLEXIBLE WITH FERRULE) | 1 x (1 - 6) mm ² , ferrule to DIN 46228 2 x (1 - 6) mm ² , ferrule to DIN 46228 |
| POWER LOSS | 6.64 W |

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| PROJECT NAME: |
| PROJECT NUMBER: |
| PREPARED BY: |
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