

## Eaton 189884

Eaton Moeller® series PKZM01 Motor-protective circuit-breaker (-EA), 440 V: 0.25 kW, I<sub>r</sub> = 0.63 - 1 A, IP20

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
<b>CATALOG NUMBER</b>	189884
<b>EAN</b>	4015081878802
<b>PRODUCT LENGTH/DEPTH</b>	93 mm
<b>PRODUCT HEIGHT</b>	90 mm
<b>PRODUCT WIDTH</b>	45 mm
<b>PRODUCT WEIGHT</b>	0.261 kg
<b>COMPLIANCES</b>	CE Marked RoHS conform
<b>MODEL CODE</b>	PKZM01-1-EA

## Caracteristici & funcții

<b>ACTUATOR TYPE</b>	Push button
<b>FEATURES</b>	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
<b>FUNCTIONS</b>	Phase failure sensitive
<b>NUMBER OF POLES</b>	Three-pole

## Generalități

<b>CONNECTION</b>	Screw terminals
<b>LIFESPAN, ELECTRICAL</b>	50,000 operations (at 400V, AC-3)
<b>LIFESPAN, MECHANICAL</b>	50,000 Operations (Main conducting paths)
<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: Suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
<b>TEMPERATURE COMPENSATION</b>	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40°

## Condiții climatice de mediu

<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °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 Damp heat, cyclic, to IEC 60068-2-30

## Tensiune nominală

<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>	440 V
<b>RATED OPERATIONAL VOLTAGE (UE) - MAX</b>	440 V
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	1 A

## Bloc de declanșare

<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	0.63 A
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	1 A

## Secțiuni de racordare

<b>TERMINAL CAPACITY (SOLID)</b>	1 x (1 - 6) mm <sup>2</sup> 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>	1.7 Nm, Screw terminals, Main cable

## Grad de protecție la scurtcircuit

<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) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA)
<b>SHORT-CIRCUIT RELEASE</b>	Basic device fixed 15.5 x I <sub>u</sub> ± 20% tolerance 15.5 A, I <sub>rm</sub>
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC</b>	50 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC</b>	50 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC</b>	50 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC</b>	50 kA

## Verificarea proiectării

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	5.33 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	1.8 W
<b>RATED OPERATIONAL</b>	1 A

**CURRENT FOR SPECIFIED  
HEAT DISSIPATION (IN)**

**STATIC HEAT  
DISSIPATION, NON-  
CURRENT-DEPENDENT  
PVS** 0 W

**Resurse**

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

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

DECLARATIONS OF CONFORMITY [eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251169en.pdf](#)

INSTRUCȚIUNI DE INSTALARE [IL034045ZU](#)

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATA:**



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