

**PKZ MOTOR PROTECTION CIRCUIT  
BREAKER**

**072733**



Overview



Specifications



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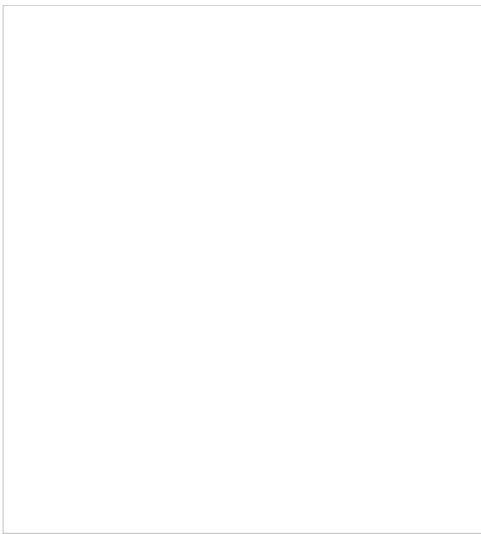


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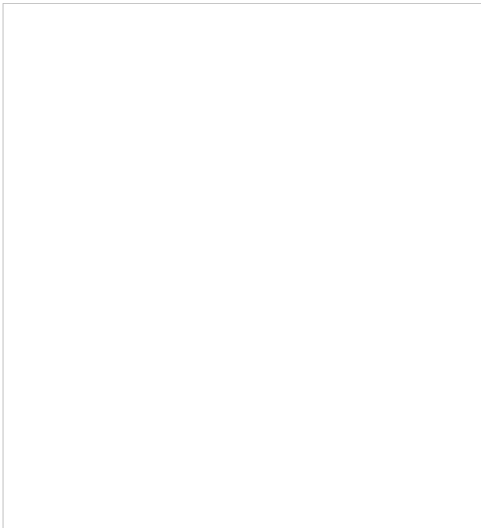


Photo is representative

**072733**

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

**How to buy**



Learn about our Push-in terminals



Configure Motor Start Combination

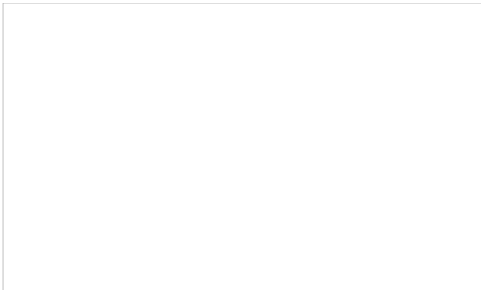


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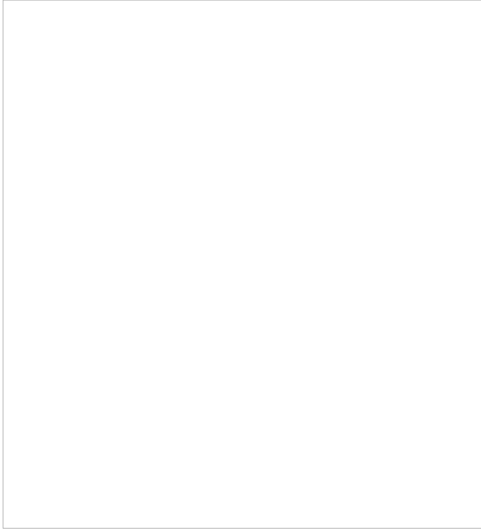


Photo is representative



## Designed to work together

Discover other Eaton products and accessories built to enhance this product.

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### 082882

Eaton Moeller® series NHI Standard auxiliary contact, NHI-E, 1 N/O, 1 NC, Can be fitted to the front, Screw terminals

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### 072896

Eaton Moeller® series NHI Standard auxiliary contact, 1 N/O, 1 NC, Can be retrofitted on the right side of motor-protective circuit-breakers, Screw terminals

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### 032720

Eaton Moeller® series PKZ Extension terminal, 3p, 25mm<sup>2</sup> BK25/3-PKZ0

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### 219654

Eaton Moeller® series CI-K Insulation enclosure, for PKZ0, 160 x 100 mm, +rotary handle, black/grey

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## GENERAL SPECIFICATIONS

General specifications

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**PRODUCT NAME** Eaton Moeller® series PKZM0 Motor-protective circuit breaker**CATALOG NUMBER** 072733

Product specifications

&gt;

**MODEL CODE** PKZM0-0,63**EAN** 4015080727330**PRODUCT LENGTH/DEPTH** 76 mm**PRODUCT HEIGHT** 93 mm**PRODUCT WIDTH** 45 mm**PRODUCT WEIGHT** 0.246 kg

## CERTIFICATIONS

UL  
CE  
CSA  
UL 60947-4-1  
CSA File No.: 165628  
IEC/EN 60947  
UL Category Control No.: NLRV  
CSA Class No.: 3211-05  
CSA-C22.2 No. 60947-4-1-14  
VDE 0660  
IEC/EN 60947-4-1  
UL File No.: E36332

## PRODUCT SPECIFICATIONS

**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** 0.63 A**TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)** 1 x (1 - 6) mm<sup>2</sup>, ferrule to DIN 46228  
2 x (1 - 6) mm<sup>2</sup>, ferrule to DIN 46228**10.11 SHORT-CIRCUIT RATING** Is the panel builder's responsibility. The specifications must be observed.**AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN** 25 °C**RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ** 0.12 kW**SHORT-CIRCUIT CURRENT RATING (TYPE E)** 50 kA, 600 Y/347 V, SCCR (UL/CSA)  
Accessories required BK25/3-PKZ0-E  
65 kA, 480 Y/277 V, SCCR (UL/CSA)  
65 kA, 240 V, SCCR (UL/CSA)**RATED SHORT-CIRCUIT BREAKING CAPACITY (CS AT**

<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC</b>	150 kA
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be lifted.
<b>SWITCHING CAPACITY</b>	0.63 A, AC-3 up to 690 V 0.63 A (3 contacts in series), DC-5 up to 250V
<b>STRIPPING LENGTH (MAIN CABLE)</b>	10 mm
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC</b>	150 kA
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	40 °C
<b>ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX</b>	9.8 A
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>PROTECTION</b>	Finger and back-of-hand proof Protection against dirt actuated from front (EN 50274)
<b>ACTUATOR TYPE</b>	Turn button
<b>RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ</b>	0.18 kW
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	0.09 kW
<b>CLIMATIC PROOFING</b>	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
<b>DEVICE CONSTRUCTION</b>	Built-in device fixed built-in technique
<b>FEATURES</b>	Phase-failure sensitivity (according to IEC/EN 60947 Part 102)
<b>LIFESPAN, ELECTRICAL</b>	100,000 operations
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>NUMBER OF POLES</b>	Three-pole
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC</b>	150 kA

<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to
<b>MOUNTING POSITION</b>	Can be snapped on to IEC/EN 60715 top-hat rail with height.
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	0.63 A
<b>TRIPPING CHARACTERISTIC</b>	Overload trigger: tripping class 10 A
<b>SHORT-CIRCUIT RELEASE</b>	± 20% tolerance, Trip blocks Basic device fixed 15.5 x I <sub>u</sub> , Trip Blocks 9.8 A, I <sub>im</sub> , Setting range max.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the instruction leaflet (IL) is observed.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	1.72 W
<b>OPERATING FREQUENCY</b>	40 Operations/h
<b>PRODUCT CATEGORY</b>	Motor protective circuit breaker
<b>SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)</b>	600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. CB, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA)
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	0.4 A
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	0.25 kW
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC</b>	150 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC</b>	150 kA
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	5.16 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>RATED OPERATIONAL CURRENT (IE)</b>	0.63 A
<b>SUITABLE FOR</b>	Branch circuit: Manual type E if used with terminal installations, (UL/CSA) Also motors with efficiency class IE3
<b>INTERNAL RESISTANCE</b>	4200 mΩ

<b>TEMPERATURE COMPENSATION</b>	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660 ≤ 0.25 %/K, residual error for T > 40°
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (1 - 6) mm <sup>2</sup> 2 x (1 - 6) mm <sup>2</sup>
<b>RATED FREQUENCY - MIN</b>	50 Hz
<b>SHORT-CIRCUIT CURRENT</b>	60 kA DC, up to 250 V DC, Main conducting path
<b>POWER LOSS</b>	5.16 W
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>LIFESPAN, MECHANICAL</b>	100,000 Operations
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	18 - 10
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	0.63 A
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC</b>	150 kA
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DEGREE OF PROTECTION</b>	IP20 Terminals: IP00
<b>RATED FREQUENCY - MAX</b>	60 Hz
<b>SWITCH OFF TECHNIQUE</b>	Thermomagnetic
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	80 °C
<b>ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN</b>	9.8 A
<b>POLLUTION DEGREE</b>	3
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>CONNECTION</b>	Screw terminals
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
<b>FUNCTIONS</b>	Motor protection Phase failure sensitive
<b>TIGHTENING TORQUE</b>	1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC</b>	150 kA

<b>RATED OPERATIONAL VOLTAGE(UE) - MIN</b>	690 V
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	ATEX dust-ex-protection, PTB 10, ATEX 3013, E
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET(UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC</b>	150 kA
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	0.25 kW
<b>SHOCK RESISTANCE</b>	25 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
<b>RATED OPERATIONAL VOLTAGE(UE) - MAX</b>	690 V
<b>ALTITUDE</b>	Max. 2000 m

Brochures

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Catalogs

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Characteristic curve

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Declarations of conformity

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Drawings

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eCAD model

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Installation instructions

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Installation videos

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Manuals and user guides

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mCAD model

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# Wiring diagrams

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072733



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy and helping to solve the world's most urgent power management challenges.