



PKZ MOTOR PROTECTION CIRCUIT  
BREAKER  
229678

  
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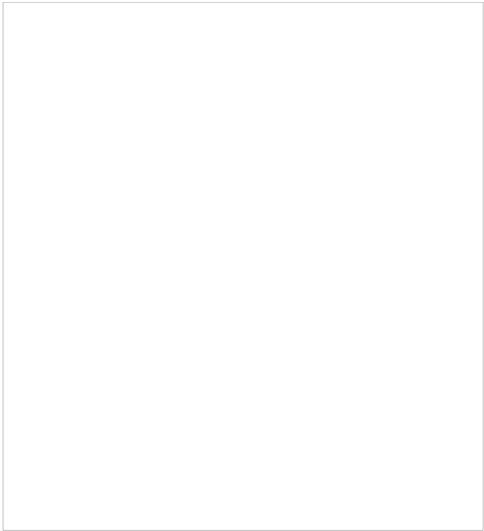


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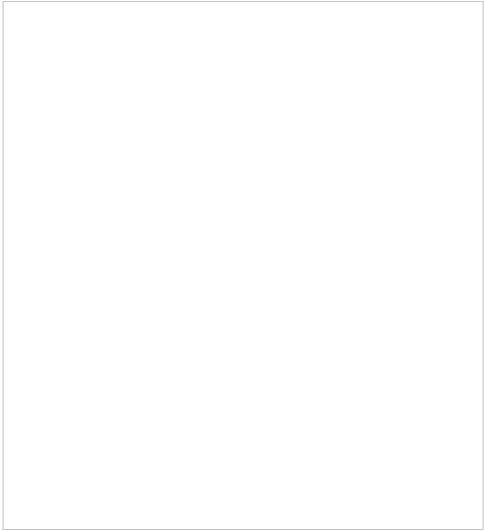




Photo is representative

229678

Eaton Moeller® series PKZM0 Motor-protective circuit breaker  
10A, spring clamp connection PKZM0-10-C

How to buy

-  [Learn about our Push-in terminals](#)
-  [Configure Motor Start Combination](#)

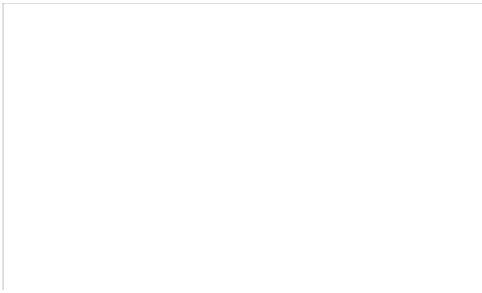


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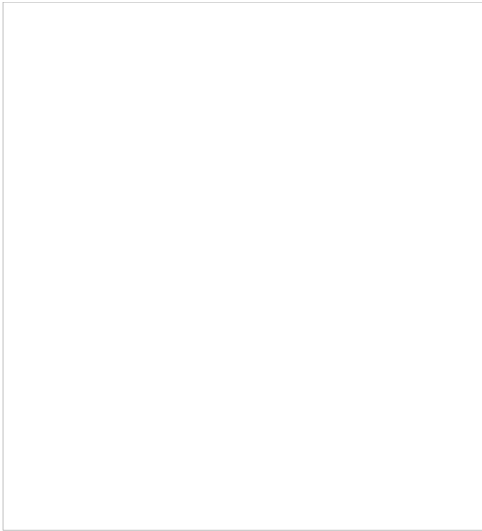


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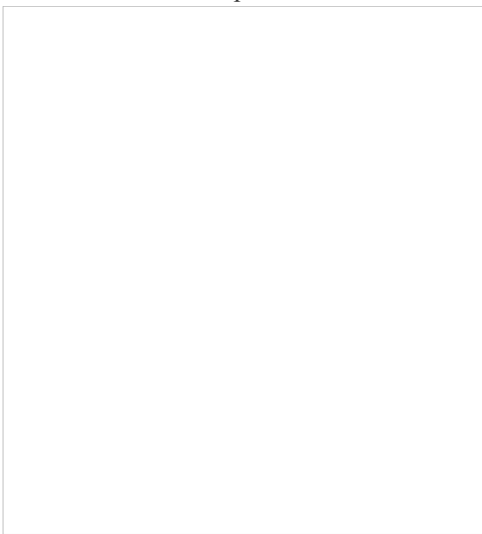


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082882

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

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

219654

Eaton Moeller® series CI-K Insulated enclosure, for PKZ0, 160 x 100 x 130 mm, +rotary handle, black/grey

072894

Eaton Moeller® series NHI Standard auxiliary contact, 2N/O+1N/C, screw connection

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## GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
		CATALOG NUMBER	229678
Product specifications	>	MODEL CODE	PKZM0-10-C
		EAN	4015082296780
		PRODUCT LENGTH/DEPTH	76 mm
		PRODUCT HEIGHT	93 mm
		PRODUCT WIDTH	45 mm
		PRODUCT WEIGHT	0.291 kg
		COMPLIANCES	CE Marked

## CERTIFICATIONS

CSA Std. C22.2 No. 14  
UL 508  
IEC 60947-4-1  
VDE  
CSA Class No.: 3211-05  
IEC/EN 60947-4-1  
CSA  
CSA-C22.2 No. 60947-4-1-14  
UL  
VDE 0660  
IEC/EN 60947  
UL 60947-4-1  
UL File No.: E36332  
CE  
CSA File No.: 165628  
UL Category Control No.: NLRV

CATALOG NOTES	This item can only be ordered until December 31, 2024. delivery date of May 31, 2024.
PRODUCT SPECIFICATIONS	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 A
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
SHORT-CIRCUIT CURRENT RATING (TYPE E)	65 kA, 480 Y/277 V, SCCR (UL/CSA) 50 kA, 600 Y/347 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E 65 kA, 240 V, SCCR (UL/CSA)
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specification must be observed.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be lifted.
SWITCHING CAPACITY	10 A, AC-3 up to 690 V 10 A (3 contacts in series), DC-5 up to 250V
STRIPPING LENGTH (MAIN CABLE)	10 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	150 kA
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	155 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 HP
PROTECTION	Finger and back-of-hand proof, Protection against direct contact (EN 50274)
ACTUATOR TYPE	Turn button
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	4 kW

<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	2.2 kW
<b>ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE</b>	0.5 HP
<b>CLIMATIC PROOFING</b>	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
<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 (at 400V, AC-3)
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Spring clamp connection
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>NUMBER OF POLES</b>	Three-pole
<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 be tested.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be tested.
<b>MOUNTING POSITION</b>	Can be snapped on to IEC/EN 60715 top-hat rail with height.
<b>RATED UNINTERRUPTED CURRENT (IU)</b>	10 A
<b>TRIPPING CHARACTERISTIC</b>	Overload trigger: tripping class 10 A
<b>SHORT-CIRCUIT RELEASE</b>	155 A, Imm, Setting range max. ± 20% tolerance, Trip blocks Basic device fixed 15.5 x Iu, Trip Blocks
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the instructions in the instruction leaflet (IL) is observed.
<b>TERMINAL CAPACITY (FLEXIBLE)</b>	2 x (0.75 - 2.5) mm², screw to DIN 46228, Spring- 1 x (0.75 - 2.5) mm², screw to DIN 46228, Spring-
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be tested.
<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 be tested.
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	2.16 W
<b>OPERATING FREQUENCY</b>	40 Operations/h

<b>PRODUCT CATEGORY</b>	Motor protective circuit breaker
<b>SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)</b>	30 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. CB, SCCR (UL/CSA) 30 kA, 600 V High Fault, CB, SCCR (UL/CSA)
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	6.3 A
<b>RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ</b>	7.5 kW
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	6.48 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE</b>	3 HP
<b>RATED OPERATIONAL CURRENT (IE)</b>	10 A
<b>ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE</b>	7.5 HP
<b>SUITABLE FOR</b>	Branch circuit: Manual type E if used with terminal block installations, (UL/CSA) Also motors with efficiency class IE3
<b>INTERNAL RESISTANCE</b>	21 mΩ
<b>TEMPERATURE COMPENSATION</b>	-25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (0.75 - 2.5) mm², Spring-loaded terminals 2 x (0.75 - 2.5) mm², Spring-loaded terminals
<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>	6.48 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 (Main conducting paths)
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	18 - 14
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	10 A
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DEGREE OF PROTECTION</b>	Terminals: IP00 IP20
<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>	155 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>	Spring-loaded 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 Nm, Screw terminals, Control circuit cables
<b>RATED OPERATIONAL VOLTAGE (UE) - MIN</b>	690 V
<b>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE</b>	1.5 HP
<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 OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	4 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>ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE</b>	3 HP
<b>ALTITUDE</b>	Max. 2000 m

Brochures

Catalogs

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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mCAD model

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Wiring diagrams

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229678



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.

