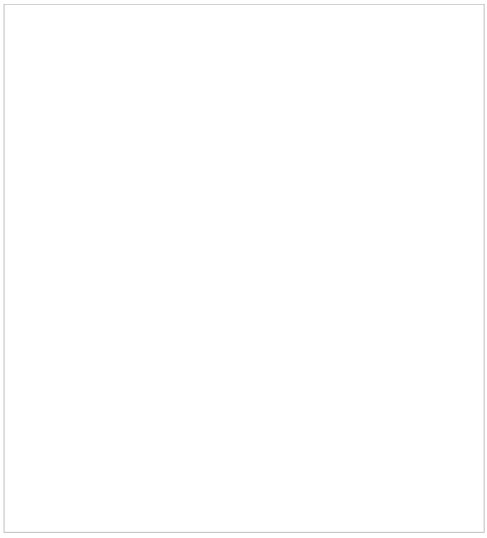
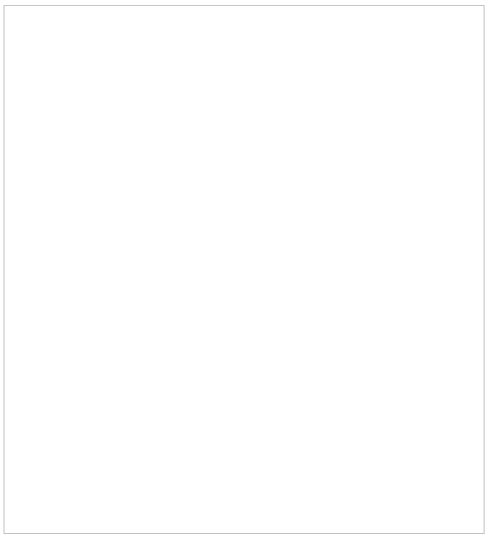
PKZ MOTOR PROTECTION CIRCUIT BREAKER

229828





229828

Eaton Moeller® series PKZM0 Motor-protective ci
Screw terminals on feed side/spring-cage terminals

How to buy

Learn about our Push-in terminals

Configure Motor Start Combination

Designed to work together

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

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

032720

Eaton Moeller® series PKZ Extension terminal, 3p, 25mm² BK25/3-PKZ0

219654

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

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Product specifications >

GENERAL SPECIFICATIONS

PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective cir
CATALOG NUMBER	229828
MODEL CODE	PKZM0-0,16-SC
EAN	4015082298289
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	93 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.242 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	UL 508 CSA Std. C22.2 No. 14 IEC 60947-4-1 VDE UL 60947-4-1 UL Category Control No.: NLRV CSA File No.: 165628 CSA Class No.: 3211-05 UL File No.: E36332 VDE 0660 CSA IEC/EN 60947 CSA-C22.2 No. 60947-4-1-14 UL CE IEC/EN 60947-4-1
CATALOG NOTES	This item can only be ordered until December 31, 2 delivery date of May 31, 2024.

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0.16 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 6) mm², ferrule to DIN 46228, Screw termin 1 x (1 - 6) mm², ferrule to DIN 46228, Screw termin
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specificatio must be observed.
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0 kW
	65 kA, 240 V, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (TYPE E)	Accessories required BK25/3-PKZ0-E 65 kA, 480 Y/277 V, SCCR (UL/CSA) 50 kA, 600 Y/347 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 specificatio must be observed.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to
SWITCHING CAPACITY	0.16 A, AC-3 up to 690 V 0.16 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	2.5 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
ACTUATOR TYPE	Turn button
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0 kW
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
FEATURES	Phase-failure sensitivity (according to IEC/EN 6094 Part 102)
LIFESPAN, ELECTRICAL	100,000 operations (at 400V, AC-3)
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
NUMBER OF POLES	Three-pole
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND	

COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail wi height.
RATED UNINTERRUPTED CURRENT (IU)	0.16 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A
SHORT-CIRCUIT RELEASE	2.5 A, Irm, Setting range max. Basic device fixed 15.5 x Iu, Trip Blocks ± 20% tolerance, Trip blocks
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the inf instruction leaflet (IL) is observed.
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.75 - 2.5) mm², ferrule to DIN 46228, Spring- 2 x (0.75 - 2.5) mm², ferrule to DIN 46228, Spring-
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.8 W
OPERATING FREQUENCY	40 Operations/h
PRODUCT CATEGORY	Motor protective circuit breaker
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	600 A, 600 V High Fault, max. CB, SCCR (UL/C 50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. Fuse, SCCR (UL/ 50 kA, 600 V High Fault, CB, SCCR (UL/CSA)
OVERLOAD RELEASE CURRENT SETTING - MIN	0.1 A
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	0.06 kW
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	5.39 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	0.16 A
SUITABLE FOR	Also motors with efficiency class IE3 Branch circuit: Manual type E if used with terminal, installations, (UL/CSA)
INTERNAL RESISTANCE	68000 mΩ
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm², Spring-loaded terminals 1 x (0.75 - 2.5) mm², Spring-loaded terminals

RATED FREQUENCY - MIN	50 Hz
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting path
POWER LOSS	5.39 W
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.
LIFESPAN, MECHANICAL	100,000 Operations (Main conducting paths)
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
OVERLOAD RELEASE CURRENT SETTING - MAX	0.16 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	Terminals: IP00 IP20
RATED FREQUENCY - MAX	60 Hz
SWITCH OFF TECHNIQUE	Thermomagnetic
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	2.5 A
POLLUTION DEGREE	3
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
CONNECTION	Screw terminals on feed side Spring-cage terminals on output side
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
FUNCTIONS	Motor protection Phase failure sensitive
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
EXPLOSION SAFETY CATEGORY FOR DUST	ATEX dust-ex-protection, PTB 10, ATEX 3013, E
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.

SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
ALTITUDE	Max. 2000 m

Brochures

Catalogs

Characteristic curve

Declarations of conformity

Drawings

eCAD model

Installation instructions

Installation videos

Manuals and user guides

mCAD model

Wiring diagrams

229828

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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.