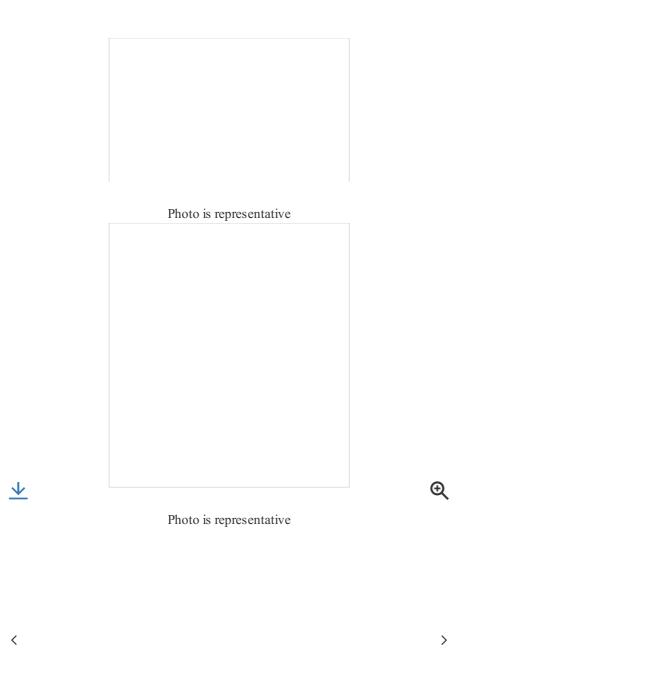
Products Digita PKZ MOTOR PROTECTION CIRCUIT How t **BREAKER** Specifications Overview 046988 046988 Eaton Moeller® series PKZM0 Motor-protective ca A, Screw terminals How to buy Learn about our Push-in terminals Configure Motor Start Combination Photo is representative

Photo is representative



Designed to work together

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

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 Instenciosure, for PKZ0, 160 x 100 +rotary handle, black/grey

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series PKZM0 Motor-protective cir
		CATALOG NUMBER	046988
Product specifications	>	MODEL CODE	PKZM0-20
		EAN	4015080469889
		PRO DUCT LENGTH/DEPTH	76 mm
		PRODUCTHEIGHT	93 mm
		PRODUCTWIDTH	45 mm
		PRODUCTWEIGHT	0.296 kg
			IEC/EN 60947
			CSA File No.: 165628
			IEC/EN 60947-4-1
			CSA-C22.2 No. 60947-4-1-14
		CERTIFICATIONS	UL 60947-4-1
			CE
			UL Category Control No.: NLRV
			VDE 0660

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	20 A
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (1 - 6) mm ² , ferrule to DIN 46228 1 x (1 - 6) mm ² , ferrule to DIN 46228
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	9 kW
SHORT-CIRCUIT CURRENT RATING (TYPE E)	18 kA, 240 V, SCCR (UL/CSA) 18 kA, 480 Y/277 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E

CSA Class No.: 3211-05 UL File No.: E36332

UL CSA

440 V AC	
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
SWITCHING CAPACITY	20 A (3 contacts in series), DC-5 up to 250V 20 A, AC-3 up to 690 V
STRIPPING LENGTH (MAIN CABLE)	10 mm
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 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	310 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	15 HP
PROTECTION	Finger and back-of-hand proof, Protection against di actuated from front (EN 50274)
ACTUATOR TYPE	Turn button
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	11 kW
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	5.5 kW
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1.5 HP
PHASE	1.5 HP Damp heat, constant, to IEC 60068-2-78
PHASE CLIMATIC PROOFING	1.5 HP Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Built-in device fixed built-in technique
PHASE CLIMATIC PROOFING DEVICE CONSTRUCTION	1.5 HP Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Built-in device fixed built-in technique Phase-failure sensitivity (according to IEC/EN 6094)
PHASE CLIMATIC PROOFING DEVICE CONSTRUCTION FEATURES	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Built-in device fixed built-in technique Phase-failure sensitivity (according to IEC/EN 6094 Part 102)
CLIMATIC PROOFING DEVICE CONSTRUCTION FEATURES LIFESPAN, ELECTRICAL STATIC HEAT DISSIPATION, NON-CURRENT-	1.5 HP Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Built-in device fixed built-in technique Phase-failure sensitivity (according to IEC/EN 6094 Part 102) 100,000 operations

NUMBER OF POLES	Three-pole
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	3 kA
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 wheight.
RATED UNINTERRUPTED CURRENT (IU)	20 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x Iu, Trip Blocks 310 A, Irm, Setting range max. \pm 20% tolerance, Trip blocks
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the in instruction leaflet (IL) is observed.
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	1.94 W
OPERATING FREQUENCY	40 Operations/h
PRODUCT CATEGORY	Motor protective circuit breaker
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	125 A, 600 V High Fault, max. CB, SCCR (UL/CSA) 10 kA, 600 V High Fault, CB, SCCR (UL/CSA) 18 kA, 600 V High Fault, Fuse with CL, SCCR (UCO) 600 A, 600 V High Fault, max. CB with CL, SCC 600 A, 600 V High Fault, max. Fuse with CL, SCC 10 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 150 A, 600 V High Fault, max. Fuse, SCCR (UL/ 18 kA, 600 V High Fault, CB with CL, SCCR (UL/
O VERLO AD RELEASE CURRENT SETTING - MIN	16 A
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	15 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	38 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	10 kA
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.82 W
HEAT DISSIPATION CAPACITY PDISS 5/8	0 W

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	5 HP
RATED OPERATIONAL CURRENT (IE)	20 A
SUITABLE FOR	Also motors with efficiency class IE3 Branch circuit: Manual type E if used with terminal installations, (UL/CSA)
INTERNAL RESISTANCE	$5~\mathrm{m}\Omega$
TEMPERATURE COMPENSATION	\leq 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)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
RATED FREQUENCY - MIN	50 Hz
SHORT-CIRCUIT CURRENT	40 kA DC, up to 250 V DC, Main conducting path
POWER LOSS	5.82 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
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10
OVERLOAD RELEASE CURRENT SETTING - MAX	20 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	3 kA
OVERVOLTAGE CATEGORY	Ш
DEGREE OF PROTECTION	IP20 Terminals: IP00
RATED FREQUENCY - MAX	60 Hz
SWITCH OFF TECHNIQUE	Thermomagnetic
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	310 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 6/8	Screw terminals

The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
Motor protection Phase failure sensitive
1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
3 kA
690 V
3 HP
ATEX dust-ex-protection, PTB 10, ATEX 3013, E
Meets the product standard's requirements.
Meets the product standard's requirements.
Meets the product standard's requirements.
1 kA
12.5 kW
25 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
690 V
Max. 2000 m

Brochures

Catalogs

Certification reports

Characteristic curve

Declarations of conformity

Drawings

eCAD model		
Installation instructions		
Installation videos		
Manuals and user guides		
mCAD model		
Wiring diagrams		

046988

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