# Products Digita How t

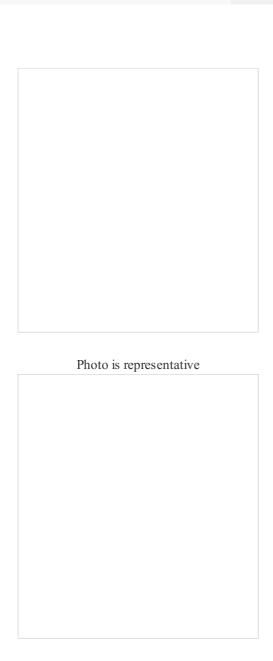


Photo is representative

PKZ MOTOR PROTECTION CIRCUIT

**BREAKER** 

072739



Overview





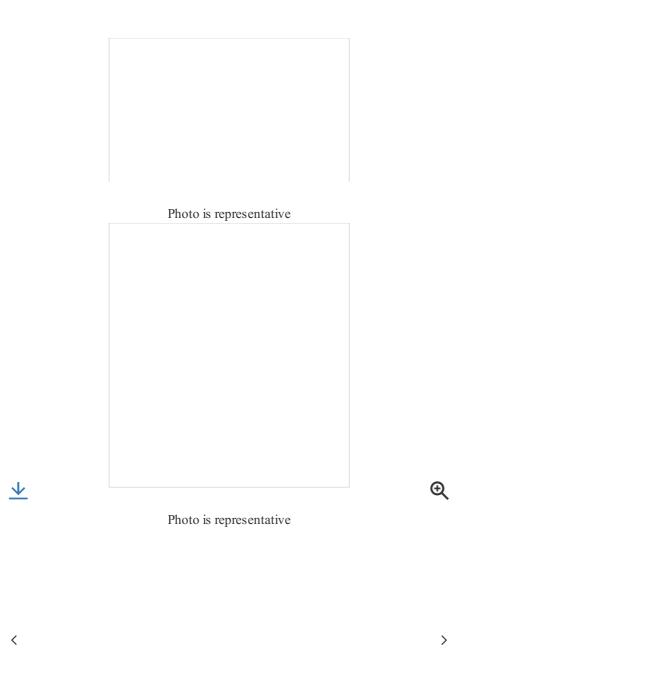
072739

Eaton Moeller® series PKZM0 Motor-protective control A, Screw 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.

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, 25mm<sup>2</sup> BK25/3-PKZ0

# 219654

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

View more

**View less** 

# GENERAL SPECIFICATIONS

General specifications	>	PRODUCTNAME	Eaton Moeller® series PKZM0 Motor-protective cir
		CATALOG NUMBER	072739
Product specifications	>	MODEL CODE	PKZM0-10
		EAN	4015080727392
		PRO DUCT LENGTH/DEPTH	76 mm
		PRODUCTHEIGHT	93 mm
		PRODUCT WIDTH	45 mm
		PRODUCTWEIGHT	0.295 kg
		CERTIFICATIONS	VDE 0660 CSA-C22.2 No. 60947-4-1-14 CSA CSA File No.: 165628 IEC/EN 60947 IEC/EN 60947-4-1 UL Category Control No.: NLRV CE UL 60947-4-1 CSA Class No.: 3211-05 UL

# PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	10 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 specification must be observed.
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	4 kW
SHORT-CIRCUIT CURRENT RATING (TYPE E)	Accessories required BK25/3-PKZ0-E 65 kA, 240 V, SCCR (UL/CSA) 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.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF	

UL File No.: E36332

# **ENCLOSURES**

ENCLOSURES	
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
ACTUATOR TYPE	Turn button
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1- PHASE	0.5 HP
FEATURES	Phase-failure sensitivity (according to IEC/EN 6094 Part 102)
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
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
RATED UNINTERRUPTED CURRENT (IU)	10 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A
SHORT-CIRCUIT RELEASE	155 A, Irm, Setting range max. Basic device fixed 15.5 x Iu, Trip Blocks $\pm 20\%$ tolerance, Trip blocks
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
OPERATING FREQUENCY	40 Operations/h
PRODUCT CATEGORY	Motor protective circuit breaker
OVERLOAD RELEASE CURRENT SETTING - MIN	6.3 A
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	7.5 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	50 kA
HEAT DISSIPATION CAPACITY PDISS	0 W
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	7.5 HP
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range $\leq$ 0.25 %/K, residual error for T > 40°
CHO DE CID CHUE CURDIDATE	(01 A DC
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting path
POWER LOSS	6.48 W
POWER LOSS	6.48 W

-	
OVERVOLTAGE CATEGORY	Ш
DEGREE OF PROTECTION	IP20 Terminals: IP00
SWITCH OFF TECHNIQUE	Thermomagnetic
AMBIENT STO RAGE TEMPERATURE - MAX	80 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	155 A
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
CONNECTION	Screw terminals
FUNCTIONS	Motor protection Phase failure sensitive
TIGHTENING TO RQUE	1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	42 kA
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.
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	2 kA
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	4 kW
SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27 shock 10 ms
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	3 HP
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	50 kA
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	10 A (3 contacts in series), DC-5 up to 250V 10 A, AC-3 up to 690 V
STRIPPING LENGTH (MAIN CABLE)	10 mm
AMBIENT O PERATING TEMPERATURE (ENCLOSED) -	40 °C

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	150 kA
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 diactuated from front (EN 50274)
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	2.2 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
LIFESPAN, ELECTRICAL	100,000 operations
STATIC HEAT DISSIPATION, NON-CURRENT- DEPENDENT PVS	0 W
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	3 kA
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.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the initinstruction leaflet (IL) is observed.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.16 W
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	600 A, 600 V High Fault, max. CB, SCCR (UL/C 30 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 30 kA, 600 V High Fault, CB, SCCR (UL/CSA)
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	150 kA
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6.48 W
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP

RATED OPERATIONAL CURRENT (IE)	10 A
SUITABLE FOR	Branch circuit: Manual type E if used with terminal installations, (UL/CSA) Also motors with efficiency class IE3
INTERNAL RESISTANCE	21 mΩ
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm <sup>2</sup> 2 x (1 - 6) mm <sup>2</sup>
RATED FREQUENCY - MIN	50 Hz
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
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	11 kA
RATED FREQUENCY - MAX	60 Hz
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	1.5 HP
EXPLOSION SAFETY CATEGORY FOR DUST	ATEX dust-ex-protection, PTB 10, ATEX 3013, E
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
ALTITUDE	Max. 2000 m

# Catalogs

# Characteristic curve

# Declarations of conformity

# Drawings

CAD model
nstallation instructions
nstallation videos
Manuals and user guides
nCAD model
Viring diagrams

072739

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