



PKZ MOTOR PROTECTION CIRCUIT
BREAKER
088918


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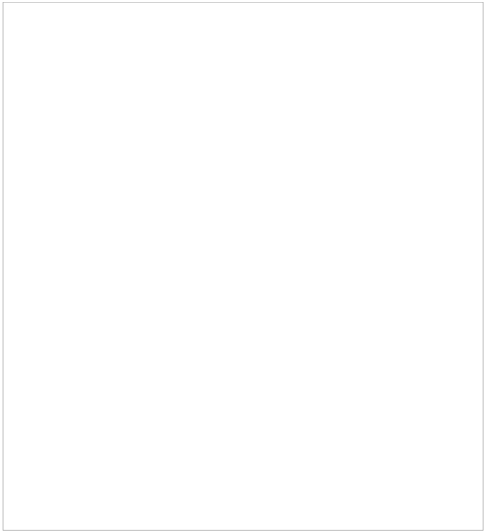


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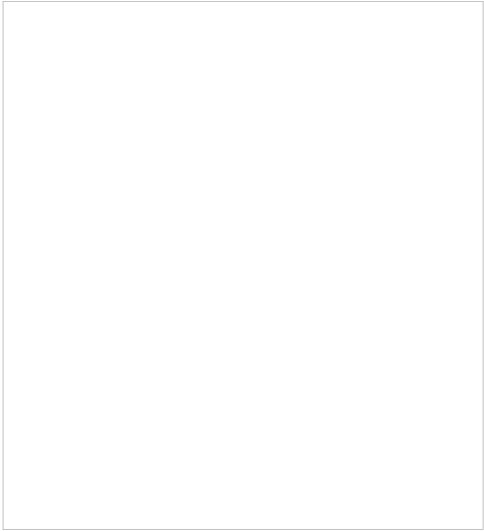


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088918

Eaton Moeller® series PKZM0 Transformer-protected
Ir=16-20A, screw connection

How to buy

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

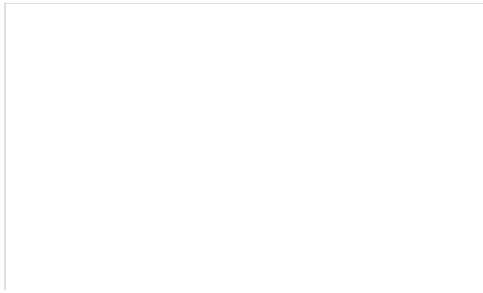


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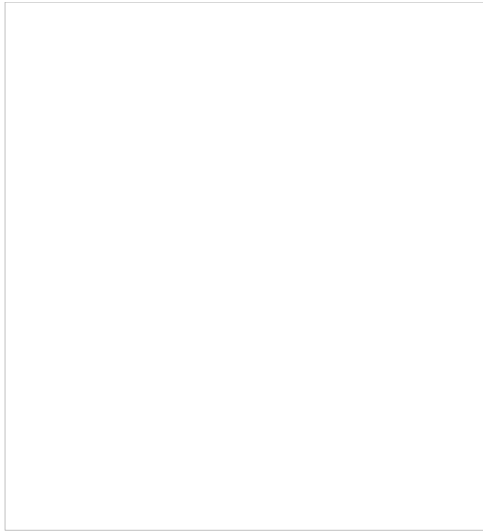


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Designed to work together

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 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 Transformer-protecti**CATALOG NUMBER** 088918

Product specifications

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MODEL CODE PKZM0-20-T**EAN** 4015080889182**PRODUCT LENGTH/DEPTH** 76 mm**PRODUCT HEIGHT** 93 mm**PRODUCT WIDTH** 45 mm**PRODUCT WEIGHT** 0.294 kg**CERTIFICATIONS** IEC/EN 60947
VDE 0660

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 20 A**TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)** 1 x (1 - 6) mm², ferrule to DIN 46228
2 x (1 - 6) mm², 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 SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC** 3 kA**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.**MOUNTING METHOD** DIN rail (top hat rail) mounting optional**10.2.5 LIFTING** Does not apply, since the entire switchgear needs to**ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX** 0 A**SWITCHING CAPACITY** 20 A, AC-3 up to 690 V
20 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	50 kA
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
FITTED WITH:	Switched-off indicator
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	380 A
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
PROTECTION	Finger and back-of-hand proof, Protection against direct contact, actuated from front (EN 50274)
ACTUATOR TYPE	Turn button
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Other
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
DEVICE CONSTRUCTION	Built-in device fixed built-in technique
FEATURES	Complete device with protection unit Phase-failure sensitivity (according to IEC/EN 60947-2 Part 102)
LIFESPAN, ELECTRICAL	100,000 operations
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
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 be tested
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be tested
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail with

MOUNTING POSITION	height.
RATED UNINTERRUPTED CURRENT (IU)	20 A
SHORT-CIRCUIT RELEASE	350 A, Imm, Setting range max. ± 20% tolerance, Trip blocks Basic device, fixed 20 x Iu, Trip Blocks
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the instructions in the instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be tested.
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 be tested.
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.89 W
OPERATING FREQUENCY	40 Operations/h
PRODUCT CATEGORY	Transformer protective circuit breaker
OVERLOAD RELEASE CURRENT SETTING - MIN	16 A
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	5.68 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	20 A
SUITABLE FOR	DIN rail (top hat rail) mounting Also motors with efficiency class IE3
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
TERMINAL CAPACITY (SOLID)	2 x (1 - 6) mm² 1 x (1 - 6) mm²
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
RATED FREQUENCY - MIN	50 Hz
SHORT-CIRCUIT CURRENT	40 kA DC, up to 250 V DC, Main conducting path
POWER LOSS	5.68 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	III
DEGREE OF PROTECTION	Terminals: IP00 IP20
RATED FREQUENCY - MAX	60 Hz
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	380 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
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device
FUNCTIONS	For the protection of transformers with a high inrush Transformer protection
TIGHTENING TORQUE	1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	3 kA
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
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.
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	1 kA

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