Eaton 278492

Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker, 3p, Ir=8-12A

PRODUCT NAME	Eaton Moeller® series PKZM0 Transformer- protective circuit-breaker
CATALOG NUMBER	278492
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	93 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.29 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947 CE UL CSA IEC/EN 60947-4-1 CSA Class No.: 3211-05 CSA File No.: 165628 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1 UL Category Control No.: NLRV UL File No.: E36332



FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
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.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.

CHARACTERISTIC CURVE	eaton-manual-motor- starters-characteristic- characteristic-curve- 008.eps
DECLARATIONS OF CONFORMITY	eaton-transformer- protective-circuit-breaker- declaration-of-conformity- uk251172en.pdf
	<u>IL03407011Z.pdf</u>
	<u>IL03402034Z</u>
	eaton-manual-motor- starters-transformer- pkzm0-wiring-diagram.eps
	eaton-manual-motor- starters-pkzm0- dimensions-003.eps
	eaton-manual-motor- starters-pkzm0-3d- drawing-004.eps
	eaton-manual-motor- starters-pkzm0-3d- drawing-008.eps

10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Switched-off indicator
OPERATING FREQUENCY	40 Operations/h
POLLUTION DEGREE	3
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
MOUNTING METHOD CLIMATIC PROOFING	·
	mounting optional Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
CLIMATIC PROOFING	mounting optional Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
CLIMATIC PROOFING ACTUATOR TYPE ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE	mounting optional Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button
ACTUATOR TYPE ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE	mounting optional Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button 0 A
CLIMATIC PROOFING ACTUATOR TYPE ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN ADJUSTMENT RANGE UNDELAYED SHORT-	mounting optional Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button 0 A

TEMPERATURE - MAX	
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6.37 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.21 W
RATED IMPULSE WITHSTAND VOLTAGE	6000 V AC
(UIMP)	
(UIMP) ALTITUDE	Max. 2000 m
	Max. 2000 m Built-in device fixed built-in technique
ALTITUDE	Built-in device fixed built-
ALTITUDE DEVICE CONSTRUCTION	Built-in device fixed built- in technique
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF	Built-in device fixed built- in technique Screw terminals
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT MOUNTING POSITION	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. 100,000 Operations (Main
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT MOUNTING POSITION LIFESPAN, MECHANICAL OVERVOLTAGE	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. 100,000 Operations (Main conducting paths)
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT MOUNTING POSITION LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. 100,000 Operations (Main conducting paths) III
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT MOUNTING POSITION LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY DEGREE OF PROTECTION	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. 100,000 Operations (Main conducting paths) III IP20 Terminals: IP00
ALTITUDE DEVICE CONSTRUCTION CONNECTION ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT MOUNTING POSITION LIFESPAN, MECHANICAL OVERVOLTAGE CATEGORY DEGREE OF PROTECTION NUMBER OF POLES	Built-in device fixed built-in technique Screw terminals Screw connection Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. 100,000 Operations (Main conducting paths) III IP20 Terminals: IP00 Three-pole 100,000 operations (at

	transformers with a high inrush current Transformer protection
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Other
SWITCHING CAPACITY	12 A (3 contacts in series), DC-5 up to 250V 12 A, AC-3 up to 690 V
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
OVERLOAD RELEASE CURRENT SETTING - MAX	12 A
OVERLOAD RELEASE CURRENT SETTING - MIN	8 A
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	12 A
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	5.5 kW
RATED UNINTERRUPTED CURRENT (IU)	12 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	10 mm
PRODUCT CATEGORY	Transformer protective

	circuit breaker
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED OPERATIONAL POWER AT AC-3E, 440 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ	11 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	38 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	12 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	4 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	3 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	2 kA
SUITABLE FOR	Also motors with efficiency class IE3 DIN rail (top hat rail) mounting
SHORT-CIRCUIT RELEASE	Basic device, fixed 20 x lu ± 20% tolerance 224 A, Irm
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
RATED OPERATIONAL CURRENT (IE)	12 A

TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	18 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA) 18 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 65 kA, 480 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 480 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 480 V High Fault, CB, SCCR (UL/CSA) with 600 A, 480 V High Fault, CB, SCCR (UL/CSA) with 600 A, 480 V High Fault, CB, SCCR (UL/CSA)
TIGHTENING TORQUE	1 Nm, Screw terminals, Control circuit cables 1.7 Nm, Screw terminals, Main cable
SWITCH OFF TECHNIQUE	Thermomagnetic
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (1 - 6) mm ² , ferrule to DIN 46228 2 x (1 - 6) mm ² , ferrule to DIN 46228
POWER LOSS	6.37 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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