

00000

Eaton 039427

Eaton Moeller® series PKZM0 Motorprotective circuit-breaker, 3p+1N/O+1N/C, Ir=1.6-2.5A, screw connection

0000	
PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
CATALOG NUMBER	039427
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	93 mm
PRODUCT WIDTH	54 mm
PRODUCT WEIGHT	0.326 kg
CERTIFICATIONS	IEC/EN 60947-4-1 VDE 0660 CSA-C22.2 No. 60947-4-1- 14 UL CE CSA UL Category Control No.: NLRV CSA Class No.: 3211-05 UL 60947-4-1 UL File No.: E36332 IEC/EN 60947 CSA File No.: 165628



0000	_
Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Pai 102)	rt
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.	1
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 Meets the product standard's requirement.	S.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES Meets the product standard's requirement.	S.
10.2.3.2 VERIFICATION OF RESISTANCE OF Meets the product INSULATING MATERIALS standard's requirement. TO NORMAL HEAT	s.
10.2.3.3 RESIST. OF INSUL. MAT. TO Meets the product	
BY INTERNAL ELECT. EFFECTS standard's requirement:	S.
BY INTERNAL ELECT. standard's requirement	
BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) standard's requirement: Meets the product standard's requirement:	S. e
ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION Does not apply, since the entire switchgear needs	s. e to
ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION Does not apply, since th entire switchgear needs be evaluated. 10.2.6 MECHANICAL IMPACT standard's requirement: be evaluated. Does not apply, since th entire switchgear needs be evaluated.	e to

CHARACTERISTIC CURVE	eaton-manual-motor- starters-characteristic- characteristic-curve- 008.eps
DECLARATIONS OF CONFORMITY	eaton-motor-protective- circuit-breakers- declaration-of-conformity- uk251171en.pdf
00000	<u>IL03402034Z</u> <u>IL03407011Z.pdf</u>
00	eaton-manual-motor- starters-circuit-breaker- pkzm0-3d-drawing.eps eaton-manual-motor- starters-pkzm0-3d-
	drawing-008.eps

ACCEMBLIEC	be evaluated.
ASSEMBLIES	
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	ls 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	Is the panel builder's responsibility.
FITTED WITH:	Auxiliary switch
OPERATING FREQUENCY	40 Operations/h
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
CLIMATIC PROOFING ACTUATOR TYPE	60068-2-30 Damp heat, constant, to
	60068-2-30 Damp heat, constant, to IEC 60068-2-78
ACTUATOR TYPE TRIPPING	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT-	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT-	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 39 A
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING	Overload trigger: tripping class 10 A 39 A
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING	Overload trigger: tripping class 10 A 39 A 55 °C
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE - MIN	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 39 A 55 °C -25 °C
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 39 A 55 °C -25 °C 40 °C
ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING TEMPERATURE - MAX AMBIENT OPERATING TEMPERATURE - MIN AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN AMBIENT STORAGE	60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 39 A 55 °C -25 °C 40 °C

TEMPERATURE - MIN	
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	0.17 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	1 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	1.5 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.16 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.72 W
INTERNAL RESISTANCE	270 mΩ
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ALTITUDE	Max. 2000 m
DEVICE CONSTRUCTION	Built-in device fixed built- in technique
EXPLOSION SAFETY CATEGORY FOR DUST	PTB 10, ATEX 3013 Ex II (2) G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb] Ex II (2) D [Ex tb Db] [Ex pxb Db]
CONNECTION	Screw terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
LIFESPAN, MECHANICAL	100,000 Operations
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP20 Terminals: IP00
NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	100,000 operations
SHOCK RESISTANCE	25 g, Mechanical,

	according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
FUNCTIONS	Motor protection Phase failure sensitive
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10 18 - 14
SWITCHING CAPACITY	5 A, 600 V AC, A600 Pilot Duty, General use UL/CSA 1 A, 250 V DC, Q300 Pilot Duty, General use UL/CSA 1 A, General use UL/CSA 2.5 A, AC-3 up to 690 V 2.5 A (3 contacts in series), DC-5 up to 250V
NUMBER OF AUXILIARY CONTACTS (CHANGE- OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
OVERLOAD RELEASE CURRENT SETTING - MAX	2.5 A
OVERLOAD RELEASE CURRENT SETTING - MIN	1.6 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)	2.5 A
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	0.37 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	0.75 kW
RATED UNINTERRUPTED CURRENT (IU)	2.5 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	10 mm

PRODUCT CATEGORY	Motor 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	1.1 kW
RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ	1.1 kW
RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ	1.5 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	5 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	5 kA
SUITABLE FOR	Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x lu ± 20% tolerance
TERMINAL CAPACITY (SOLID)	38.8 A, lrm 1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 2.5) mm²,

	Control circuit cables
RATED OPERATIONAL CURRENT (IE)	2.5 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)	50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (TYPE E)	65 kA, 480 Y/277 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E 65 kA, 240 V, SCCR (UL/CSA) 50 kA, 600 Y/347 V, 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 (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²
POWER LOSS	5.16 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
00:	



Eaton House 30 Pembroke Road Dublin 4, □□□ Eaton.com

latest product and support information.





Follow us on social media to get the



