Eaton 199184

Eaton Moeller® series Motor-protective circuit-breaker; 1.5 kW, 2.5 - 4 A, Feed-side screw terminals/output-side push-in terminals

PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
CATALOG NUMBER	199184
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	94 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.292 kg
CERTIFICATIONS	IEC/EN 60947 VDE 0660 UL File No.: E36332 IEC/EN 60947-4-1 CSA File No.: 165628 UL Category Control No.: NLRV UL CSA-C22.2 No. 60947-4-1- 14 CSA Class No.: 3211-05 CSA UL 60947-4-1 CE



FEATURES Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102) The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.11 SHORT-CIRCUIT RATING 10.12 ELECTROMAGNETIC COMPATIBILITY 10.13 MECHANICAL FUNCTION 10.13 MECHANICAL FUNCTION 10.2.2 CORROSION RESISTANCE 10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES 10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS 10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION 10.2.5 LIFTING 10.2.5 LIFTING Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 1029) The panel builder is responsibility. The specifications for the switchgear must be observed. Is the panel builder's responsibility. The specifications for the switchgear must be observed. The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 INSCRIPTIONS Meets the product standard's requirements.		
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	10.2.7 H45CKH 110145	standard's requirements.

DECLARATIONS OF CONFORMITY	eaton-motor-protective- circuit-breaker- declaration-of-conformity- uk251170en.pdf
MCAD MODEL	pkzm0_s16_pi.stp pkzm0_s16_pi.dwg
	<u>IL03407011Z.pdf</u>
	eaton-manual-motor- starters-pkzm-pkzm0- dimensions-002.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	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
OPERATING FREQUENCY	40 Operations/h
or morning i king of ite.	40 Operations/11
POLLUTION DEGREE	3
-	<u> </u>
POLLUTION DEGREE	3 DIN rail (top hat rail)
POLLUTION DEGREE MOUNTING METHOD	DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC
POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING	DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING ACTUATOR TYPE TRIPPING	DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Turn button Overload trigger: tripping
POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE	DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Turn button Overload trigger: tripping class 10 A
POLLUTION DEGREE MOUNTING METHOD CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-TERM DELAYED SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE	DIN rail (top hat rail) mounting optional Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 Turn button Overload trigger: tripping class 10 A 0 A

AMBIENT OPERATING TEMPERATURE - MAX	55 °C
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
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.125 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	0.75 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	0.33 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	0.75 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	2 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	3 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.33 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.8 W
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ALTITUDE	Max. 2000 m
DEVICE CONSTRUCTION	Built-in device fixed built- in technique
CONNECTION	Push-in terminals on output side Screw terminals on feed

	side
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw-/spring clamp 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	Ш
DEGREE OF PROTECTION	Terminals: IP00 IP20
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, screw terminals 20 - 14, Push-in terminals
SWITCHING CAPACITY	4 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	4 A
OVERLOAD RELEASE CURRENT SETTING - MIN	2.5 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)	4 A
RATED OPERATIONAL POWER AT AC-3E,	0.75 kW

220/230 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	1.5 kW
RATED UNINTERRUPTED CURRENT (IU)	4 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	1.5 kW
RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ	3 kW
TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals
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	150 kA

AT 500 V AC	
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	150 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	3 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	3 kA
TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)	1 x (1 - 6) mm ² , Screw terminals 2 x (1 - 6) mm ² , Screw terminals 1 x (1 - 2.5) mm ² , Push-in terminals 2 x (1 - 2.5) mm ² , Push-in terminals
SUITABLE FOR	Also motors with efficiency class IE3 Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)
	Basic device fixed 15.5 x lu
SHORT-CIRCUIT RELEASE	± 20% tolerance 62 A, Irm
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm², Screw terminals 2 x (1 - 6) mm², Screw terminals 1 x (1 - 2.5) mm², Push-in terminals 2 x (1 - 2.5) mm², Push-in terminals
RATED OPERATIONAL CURRENT (IE)	4 A
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
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)	50 kA, 600 Y/347 V, SCCR (UL/CSA) 65 kA, 240 V, SCCR (UL/CSA) 65 kA, 480 Y/277 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable
SWITCH OFF TECHNIQUE	Thermomagnetic
TERMINAL CAPACITY (FLEXIBLE)	Thermomagnetic $1 \times (1 - 6) \text{ mm}^2$, Screw terminals $2 \times (1 - 6) \text{ mm}^2$, Screw terminals $1 \times (1 - 2.5) \text{ mm}^2$, Push-in terminals $2 \times (1 - 2.5) \text{ mm}^2$, Push-in terminals

PROJECT NAME: **PROJECT NUMBER: PREPARED BY:**



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