Eaton 222354

Eaton Moeller® series PKZM4 Motorprotective circuit-breaker, Ir= 32 - 40 A, Screw terminals, Terminations: IP00 PKZM4-40

PRODUCT NAME	Eaton Moeller® series PKZM4 Motor-protective circuit-breaker
CATALOG NUMBER	222354
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	140 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.136 kg
CERTIFICATIONS	CSA File No.: 165628 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947-4-1 UL 60947-4-1 CE CSA CSA Class No.: 3211-05 UL Category Control No.: NLRV UL File No.: E36332 VDE 0660 IEC/EN 60947 UL



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.		CHARACTERISTIC
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.		DECLARATIONS O
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.		CONFORMITY
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.	-	

	eaton-manual-motor- starters-tripping- characteristic-pkzm4- characteristic-curve.eps
CHARACTERISTIC CURVE	eaton-manual-motor- starters-characteristic- pkzm4-characteristic- curve-002.eps
	eaton-manual-motor- starters-characteristic- pkzm4-characteristic- curve.eps
DECLARATIONS OF CONFORMITY	eaton-motor-protective- circuit-breaker- declaration-of-conformity- uk251168en.pdf
	eaton-motors-starters- pkzm4-motor-protective- circuit-breaker-instruction- leaflet-il03407012z.pdf
	eaton-manual-motor- starters-starter-nzm-mccb- wiring-diagram.eps
	eaton-manual-motor- starters-transformer- pkzm0-wiring-diagram.eps
	eaton-manual-motor- starters-circuit-breaker- pkzm4-dimensions.eps
	eaton-manual-motor- starters-pkzm4- dimensions.eps
	eaton-manual-motor- starters-pkzm4-3d- drawing.eps
	eaton-manual-motor- starters-circuit-breaker-

pkzm4-3d-drawing.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	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	ls the panel builder's responsibility.
OPERATING FREQUENCY	40 Operations/h
OPERATING FREQUENCY POLLUTION DEGREE	40 Operations/h
POLLUTION DEGREE	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to
POLLUTION DEGREE CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
POLLUTION DEGREE CLIMATIC PROOFING ACTUATOR TYPE TRIPPING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping
POLLUTION DEGREE CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT-	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A
POLLUTION DEGREE CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT-	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A
POLLUTION DEGREE CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 620 A
POLLUTION DEGREE CLIMATIC PROOFING ACTUATOR TYPE TRIPPING CHARACTERISTIC ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MAX ADJUSTMENT RANGE UNDELAYED SHORT- CIRCUIT RELEASE - MIN AMBIENT OPERATING TEMPERATURE - MAX	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78 Turn button Overload trigger: tripping class 10 A 620 A 55 °C

AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	30 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	20.7 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	6.9 W
INTERNAL RESISTANCE	5 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	ATEX dust-ex-protection, PTB 10, ATEX 3012, Ex II(2) G
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	30,000 Operations (Main conducting paths)
OVERVOLTAGE CATEGORY	Ш

DEGREE OF PROTECTION	IP20 Terminals: IP00
NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	30,000 operations (at 400V, AC-3)
SHOCK RESISTANCE	15 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)	14 - 2
SWITCHING CAPACITY	40 A (3 contacts in series), DC-5 up to 250V 40 A, AC-3 up to 690 V
OVERLOAD RELEASE CURRENT SETTING - MAX	40 A
OVERLOAD RELEASE CURRENT SETTING - MIN	32 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)	40 A
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	20 kW
RATED UNINTERRUPTED CURRENT (IU)	40 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	14 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	22 kW
RATED OPERATIONAL POWER AT AC-3E, 500 V, 50 HZ	24 kW
RATED OPERATIONAL POWER AT AC-3E, 690 V, 50 HZ	30 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 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 620 A, Irm
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 16) mm²
RATED OPERATIONAL CURRENT (IE)	40 A
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40°
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	600 A, 600 V High Fault, max. CB, SCCR (UL/CSA) 600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA) 42 kA, 600 V High Fault, CB, SCCR (UL/CSA) 42 kA, 600 V High Fault, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (TYPE E)	Accessories required BK50/3-PKZ4-E 65 kA, 480 Y/277 V, SCCR (UL/CSA) 25 kA, 600 Y/347 V, SCCR

	(UL/CSA) 65 kA, 240 V, SCCR (UL/CSA)
TIGHTENING TORQUE	3.3 Nm, Screw terminals, Main cable
SWITCH OFF TECHNIQUE	Thermomagnetic
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 35) mm², Main cables 2 x (0.75 - 25) mm², Main cables
POWER LOSS	20.7 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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information.





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