DATASHEET - PKZM0-4



Motor-protective circuit-breaker, 1.5 kW, 2.5 - 4 A, Screw terminals



Part no. PKZM0-4 072737 EL Number 4355128

(Norway)

General specifications	
Product name	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
Part no.	PKZM0-4
EAN	4015080727378
Product Length/Depth	76 millimetre
Product height	93 millimetre
Product width	45 millimetre
Product weight	0.284 kilogram
Certifications	VDE 0660 CSA Class No.: 3211-05 UL Category Control No.: NLRV CSA-C22.2 No. 60947-4-1-14 UL CE IEC/EN 60947 IEC/EN 60947-4-1 UL File No.: E36332 CSA File No.: 165628 CSA UL 60947-4-1
Product Tradename	PKZM0
Product Type	Motor-protective circuit-breaker
Product Sub Type	None
Catalog Notes	IE3-ready devices are identified by the logo on their packaging.
Features & Functions	
Actuator type	Turn button
Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Functions	Phase failure sensitive Motor protection
Number of poles	Three-pole
General information	
Connection	Screw terminals
Degree of protection	IP20 Terminals: IP00
Explosion safety category for dust	ATEX dust-ex-protection, PTB 10, ATEX 3013, Ex II(2) GD
Lifespan, electrical	100,000 operations
Lifespan, mechanical	100,000 Operations
Mounting position	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
Operating frequency	40 Operations/h
Overvoltage category	III
Pollution degree	3
Product category	Motor protective circuit breaker
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC
Shock resistance	25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Suitable for	Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
Temperature compensation	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40 °
Climatic environmental conditions	
Altitude	Max. 2000 m
Ambient operating temperature - min	-25 °C

Ambient operating temperature - max	55 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (flexible with ferrule)	2 x (1 - 6) mm², ferrule to DIN 46228
	1 x (1 - 6) mm², ferrule to DIN 46228
Terminal capacity (solid)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
Terminal capacity (solid/stranded AWG)	18 - 10
Stripping length (main cable)	10 mm
Tightening torque	1.7 Nm, Screw terminals, Main cable
Electrical retire	1 Nm, Screw terminals, Control circuit cables
Electrical rating	
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated operational corrent (le)	4 A 0.75 kW
Rated operational power at AC-3, 220/230 V, 50 Hz	
Rated operational power at AC-3, 380/400 V, 50 Hz	1.5 kW 1.5 kW
Rated operational power at AC-3, 440 V, 50 Hz	1.5 kW
Rated operational power at AC 3, 500 V, 50 Hz	2.2 KW
Rated operational power at AC-3, 690 V, 50 Hz	690 V
Rated operational voltage (Ue) - min Rated operational voltage (Ue) - max	690 V
Rated uninterrupted current (Iu)	4 A
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Short-circuit rating	
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 los at 440 V AC	150 kA
Rated short-circuit breaking capacity Icu at 500 V AC Rated short-circuit breaking capacity Ics at 500 V AC	150 kA
· · ·	150 kA
Rated short-circuit breaking capacity los at 690 V AC	3 kA 3 kA
Rated short-circuit breaking capacity lcs at 690 V AC 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) 65 kA, 240 V, SCCR (UL/CSA) Accessories required BK25/3-PKZ0-E 50 kA, 600 Y/347 V, SCCR (UL/CSA)
Short-circuit release	± 20% tolerance, Trip blocks Basic device fixed 15.5 x lu, Trip Blocks 62 A, Irm, Setting range max.
Switching capacity	
Switching capacity	4 A, AC-3 up to 690 V 4 A (3 contacts in series), DC-5 up to 250V
Motor rating	
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
Trip blocks	

Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss Dow 1.78 W Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvid Rated operational current for specified heat dissipation (In) Static heat dissipation, non-current-dependent Pvs Dow 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. Meets the product standard's requirements. 10.2.3.1 Separate to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Mechanical impact Meets the product standard's requirements. 10.2.5 Mechanical impact Meets the product standard's requirements. 10.2.6 Mechanical impact Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. List the panel builder's responsibility. Meets the product standard's requirements. List the panel builder's responsibility. The panel builder's responsibility. The panel builder's responsibility. The panel builder's responsibility. The specifications for the switchgear must be observed.	Overload release current setting - min	2.5 A
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10.7 Internal electrical circuits and connections 1 Is the panel builder's responsibility. 10.8 Connections for external conductors 1 Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength 1 Is the panel builder's responsibility. 10.9.3 Impulse withstand voltage 1 Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material 1 Is the panel builder's responsibility. 10.10 Temperature rise 10.11 Short-circuit rating 1 Is the panel builder is responsibile for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. 10.12 Electromagnetic compatibility 1 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 10.13 Mechanical function 1 The device meets the requirements, provided the information in the instruction	10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Short-circuit ration 10.15 The device meets the requirements, provided the information in the instruction	10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
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10.9.3 Impulse withstand voltage Is the panel builder's responsibility. 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility. 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	10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Testing of enclosures made of insulating material 15 the panel builder's responsibility. The temperature rise calculation. Eaton will provide heat dissipation data for the devices. 16 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 17 Is the panel builder's responsibility. The specifications for the switchgear must be observed. 18 The panel builder's responsibility. The specifications for the switchgear must be observed. 19 Is the panel builder's responsibility. The specifications for the switchgear must be observed.	10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
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	10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
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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	10.10 Temperature rise	
observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	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	

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Motor protection circuit-breaker (ecl@ss13-27-37-04-01 [AGZ529021])

[AGESESSE1])		
Overload release current setting	Α	2.5 - 4
Adjustment range undelayed short-circuit release	Α	62 - 62
With thermal overload protection		No
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	4
Rated operation power at AC-3, 230 V	kW	0.75
Rated operation power at AC-3, 400 V	kW	1.5
Power loss	W	5.33
Type of electrical connection of main circuit		Screw connection
Type of control element		Turn button
Device construction		Built-in device fixed built-in technique
With integrated auxiliary switch		No
With integrated under voltage release		No
Number of poles		3
Rated short-circuit breaking capacity Icu at 400 V, AC	kA	150
Degree of protection (IP)		IP20

Height	mm	93
Width	mm	45
Depth	mm	76