

**Motor-protective circuit-breaker, Ir= 16 - 25 A, Screw terminals,
Terminations: IP00**
**Part no. PKZM4-25
222352**

Product name	Eaton Moeller® series PKZM4 Motor-protective circuit-breaker
Part no.	PKZM4-25
EAN	4015082223526
Product Length/Depth	160 millimetre
Product height	140 millimetre
Product width	55 millimetre
Product weight	1.136 kilogram
Certifications	VDE 0660 UL 60947-4-1 UL UL File No.: E36332 IEC/EN 60947 UL Category Control No.: NLRV CSA File No.: 165628 CE CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-05
Product Tradename	PKZM4
Product Type	Motor-protective circuit-breaker
Product Sub Type	None
Catalog Notes	IE3-ready devices are identified by the logo on their packaging.
Actuator type	Turn button
Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Functions	Motor protection Phase failure sensitive
Number of poles	Three-pole
Degree of protection	IP20 Terminals: IP00
Explosion safety category for dust	ATEX dust-ex-protection, PTB 10, ATEX 3012, Ex II(2) G
Lifespan, electrical	30,000 operations (at 400V, AC-3)
Lifespan, mechanical	30,000 Operations (Main conducting paths)
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	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Suitable for	Also motors with efficiency class IE3 Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA)
Temperature compensation	-5 - 40 °C to IEC/EN 60947, VDE 0660 ≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range
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 capacity (flexible with ferrule)		1 x (0.75 - 35) mm ² , Main cables 2 x (0.75 - 25) mm ² , Main cables
Terminal capacity (solid)		1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 16) mm ²
Terminal capacity (solid/stranded AWG)		14 - 2
Stripping length (main cable)		14 mm
Tightening torque		3.3 Nm, Screw terminals, Main cable
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		25 A
Rated operational power at AC-3, 220/230 V, 50 Hz		5.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		12.5 kW
Rated operational power at AC-3, 440 V, 50 Hz		12.5 kW
Rated operational power at AC-3, 500 V, 50 Hz		15 kW
Rated operational power at AC-3, 690 V, 50 Hz		22 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		25 A
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) 42 kA, 600 V High Fault, CB, SCCR (UL/CSA) 42 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) 600 A, 600 V High Fault, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (type E)		25 kA, 600 Y/347 V, SCCR (UL/CSA) 65 kA, 240 V, SCCR (UL/CSA) Accessories required BK50/3-PKZ4-E 65 kA, 480 Y/277 V, SCCR (UL/CSA)
Short-circuit release		388 A, I _{rm} , Setting range max. Basic device fixed 15.5 x I _u , Trip Blocks ± 20% tolerance, Trip blocks
Switching capacity		25 A, AC-3 up to 690 V 25 A (3 contacts in series), DC-5 up to 250V
Assigned motor power at 115/120 V, 60 Hz, 1-phase		2 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase		5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase		3 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase		7.5 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase		15 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase		20 HP
Connection		Screw terminals
Overload release current setting - min		16 A
Overload release current setting - max		25 A
Tripping characteristic		Overload trigger: tripping class 10 A
Equipment heat dissipation, current-dependent P _{vid}		14.7 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		4.9 W
Rated operational current for specified heat dissipation (I _n)		25 A

Static heat dissipation, non-current-dependent Pvs		0 W
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.
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		Is 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		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 leaflet (IL) is observed.

Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Motor protection circuit-breaker (EC000074)		
Tecnología electrónica, de automatización y de mando de procesos / Tecnología de conmutación de baja tensión / Interruptor de potencia, interruptor de potencia (baja tensión) / Interruptor de potencia para protección de motor (ecl@ss10.0.1-27-37-04-01 [AGZ529016])		
Overload release current setting	A	16 - 25
Adjustment range undelayed short-circuit release	A	388 - 388
With thermal protection		No
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current I _u	A	25
Rated operation power at AC-3, 230 V	kW	5.5
Rated operation power at AC-3, 400 V	kW	12.5
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 I _{cu} at 400 V, AC	kA	150
Degree of protection (IP)		IP20
Height	mm	140
Width	mm	55
Depth	mm	160