

Part no. **PKZM01-6,3-G**
286086

General specifications	
Product name	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
Part no.	PKZM01-6,3-G
EAN	4015082860868
Product Length/Depth	158 millimetre
Product height	80 millimetre
Product width	117 millimetre
Product weight	0.59 kilogram
Compliances	CE Marked
Certifications	IEC 60947-4-1 UL 508 CSA Std. C22.2 No. 14 VDE VDE 0660 IEC/EN 60947
Product Tradename	PKZM01
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	Push button
Features	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:	Operating membrane
Functions	Motor protection Phase failure sensitive
Number of poles	Three-pole
General information	
Connection	Screw terminals
Degree of protection	IP65
Lifespan, electrical	50,000 operations (at 400V, AC-3)
Lifespan, mechanical	50,000 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	25 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	Also motors with efficiency class IE3
Climatic environmental conditions	
Altitude	Max. 2000 m
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
Terminal capacities	
Terminal capacity (flexible with ferrule)	2 x (1 - 6) mm ² , ferrule to DIN 46228 1 x (1 - 6) mm ² , 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 rating		
Rated frequency - min		50 Hz
Rated frequency - max		60 Hz
Rated operational current (Ie)		6.3 A
Rated operational power at AC-3, 220/230 V, 50 Hz		0.09 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0.12 kW
Rated operational power at AC-3, 440 V, 50 Hz		3 kW
Rated operational voltage (Ue) - min		690 V
Rated operational voltage (Ue) - max		690 V
Rated uninterrupted current (Iu)		0.63 A
Short-circuit rating		
Rated short-circuit breaking capacity Icu at 400 V AC		50 kA
Short-circuit current		60 kA DC, up to 250 V DC, Main conducting paths
Short-circuit release		97.7 A, I _{rm} , Setting range max. Basic device fixed 15.5 x I _u , Trip Blocks ± 20% tolerance, Trip blocks
Switching capacity		
Switching capacity		6.3 A (3 contacts in series), DC-5 up to 250V 6.3 A, AC-3 up to 440 V
Trip blocks		
Overload release current setting - min		4 A
Overload release current setting - max		6.3 A
Tripping characteristic		Overload trigger: tripping class 10 A
Design verification		
Equipment heat dissipation, current-dependent P _{vid}		5.68 W
Heat dissipation capacity P _{diss}		0 W
Heat dissipation per pole, current-dependent P _{vid}		1.89 W
Rated operational current for specified heat dissipation (I _n)		6.3 A
Static heat dissipation, non-current-dependent P _{vs}		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 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])		
Overload release current setting	A	4 - 6.3
Adjustment range undelayed short-circuit release	A	98 - 98
With thermal overload protection		No
Phase failure sensitive		Yes
Switch off technique		Thermomagnetic
Rated operating voltage	V	690 - 690
Rated permanent current I _u	A	0.63
Rated operation power at AC-3, 230 V	kW	0.09
Rated operation power at AC-3, 400 V	kW	0.12
Power loss	W	5.68
Type of electrical connection of main circuit		Screw connection
Type of control element		Push button
Device construction		Complete device in housing
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	50
Degree of protection (IP)		IP65
Height	mm	80
Width	mm	117
Depth	mm	158