Short-circuit protective breaker, lu 1 A, Irm 15.5 A, Screw terminals, Also suitable for motors with efficiency class IE3.



Part no. PKM0-1 072724

General specifications		
Product name	Eaton Moeller® series PKM0 Short-circuit protective breaker	
Part no.	PKM0-1	
EAN	4015080727248	
Product Length/Depth	76 millimetre	
Product height	93 millimetre	
Product width	45 millimetre	
Product weight	0.249 kilogram	
Certifications	IEC/EN 60947 VDE 0660	
Product Tradename	PKM0	
Product Type	Short-circuit protective breaker	
Product Sub Type	None	
Catalog Notes	An appropriate overload relay must be fitted to protect motors against overload. IE3-ready devices are identified by the logo on their packaging. Refer to catalog CA034001DE for the allocation of short circuit protection and contactor	
Features & Functions		
Actuator type	Turn button	
Number of poles	Three-pole	
General information		
Connection	Screw terminals	
Degree of protection	Terminals: IP00 IP20	
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	Also motors with efficiency class IE3	
Temperature compensation	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range \leq 0.25 %/K, residual error for T > 40°	
Туре	Short-circuit protective device only	
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	
	40 °C	
Ambient operating temperature (enclosed) - max	40 °C	
Ambient operating temperature (enclosed) - max Ambient storage temperature - min	40 0	
	80 °C	
Ambient storage temperature - min		

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	Nm, Screw terminals, Control circuit cables Nm, Screw terminals, Main cable
Electrical rating	
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated operational current (le)	1 A
Rated operational power at AC-3, 220/230 V, 50 Hz	0.12 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	0.25 kW
Rated operational power at AC-3, 440 V, 50 Hz	0.25 kW
Rated operational power at AC-3, 500 V, 50 Hz	0.38 kW
Rated operational power at AC-3, 690 V, 50 Hz	0.55 kW
Rated operational voltage (Ue) - min	690 V
Rated operational voltage (Ue) - max	690 V
Rated uninterrupted current (Iu)	1 A
Short-circuit rating	
Rated short-circuit breaking capacity Icu at 400 V AC	150 kA
Short-circuit release	Basic device fixed 15.5 x lu, Trip Blocks ± 20% tolerance, Trip blocks 15.5 A, Irm, Setting range max.
Switching capacity	
Switching capacity	1 A (3 contacts in series), DC-5 up to 250V 1 A, AC-3 up to 690 V
Frip blocks	
Overload release current setting - min	0 A
Overload release current setting - max	0 A
Design verification	
Equipment heat dissipation, current-dependent Pvid	5.33 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.78 W
Rated operational current for specified heat dissipation (In)	1 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 I 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

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Overload release current setting	А	4	0 - 0
Adjustment range undelayed short-circuit release	А	4	15.5 - 15.5
With thermal overload protection			No
Phase failure sensitive			No
Switch off technique			Magnetic
Rated operating voltage	V	/	690 - 690
Rated permanent current lu	А	4	1
Rated operation power at AC-3, 230 V	k'	(W	0.12
Rated operation power at AC-3, 400 V	k'	W	0.25
Power loss	V	N	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	k	κA	150
Degree of protection (IP)			IP20
Height	m	nm	93
Width	m	nm	45
Depth	m	nm	76