## Short-circuit protective breaker, lu 2.5 A, Irm 38.8 A, Screw terminals, Also suitable for motors with efficiency class IE3.



Part no. PKM0-2,5 072726

E3-rawly devices are identified by the logo on their packaging. Refer to catalog (A349010 E for the allocation of short circuit protection an centactor    Positives & Functions	General specifications	
EON 4015800712202 Product Length Ubegish Product Length Ubegish Product Length Ubegish Product Length Ubegish Product World Product World Out Tradename Product Tradename	Product name	Eaton Moeller® series PKM0 Short-circuit protective breaker
Product LanghVDupth Product religit Sometiments Product religit Certifications Product religit Certifications Product Tradename Product Sulvye Short-circuit protective breaker Rocact Sulvye Catalog Notes Short-circuit protective breaker Product Sulvye Catalog Notes Short-circuit protective protection and protective device and protective protection and protective device protection and protective circuit breaker Product Catalogray Pollucion degree  Product Sulvye Protection Sizable for Temperature compensation  Allitude Max 2008 m Ambient sperature devices device any Protection Protectio	Part no.	PKM0-2,5
Product treight Product treight Product treight Product treight Product treight Product Tradename Product Tradename Product Tradename Product Tradename Product Stype Prod	EAN	4015080727262
Product width Product weight Cartifications Cartifications Cartifications Cartifications Cartifications Product Tradename Product Type Short-circuit protective breaker Product Sub Type None Catalog Notes Catalog	Product Length/Depth	76 millimetre
Product Veright Certifications Product Tradename Product Sha Type Short circuit protective breaker Product Sha Type Pr	Product height	93 millimetre
Certifications Product Tardename Product Type Product Type Product Sob Type Catalog Notes Catalog No	Product width	45 millimetre
Product Tradename Product Tradename Product Tradename Product Tradename Product Sub Type Short-circuit protective breaker Product Sub Type Product Category III Pollution degree Product Category Protection Program Inspire Windstand voltage (Uimpl Shock resistance Product Category Protection Program Inspire Windstand voltage (Uimpl Shock resistance Product Category Protection Profession	Product weight	0.287 kilogram
Product Type Product Sub Type  Catalog Notes Catalog Catalog Notes Catalog Catalog Notes Catalog Catalog Notes Catalog	Certifications	
Product Sub Type  Catalog Notes  Cat	Product Tradename	PKM0
Catalog Notes  Catalog Notes  Catalog Notes  Catalog Notes  Recurrence  Catalog Notes  Catalog CASMODIC for the ellocation of short circuit protection an contactor  Catalog Notes  Catalo	Product Type	Short-circuit protective breaker
IE3-ready devices are identified by the logo on their packaging. Refer to catalog CASQA0TIDE for the allocation of short circuit protection an contactor  Actuator type Actuator type Turn button  Number of poles  Connection Connection Connection Ogree of protection It290 Lifespan, electrical Lifespan,	Product Sub Type	None
Actuator type Number of poles  Seneral information  Connection Degree of protection Degree of protection Lifespan, electrical Lifespan, electrical Lifespan, mechanical Mounting position Operations Connection Operations O	Catalog Notes	Refer to catalog CA034001DE for the allocation of short circuit protection and
Number of poles  Seneral information  Connection  Degree of protection  Lifespan, electrical  Lifespan, mechanical  Mounting position  Operating frequency  Overvoltage category  Pollution degree  Product category  Protection  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Temperature compensation  Suitable for  Temperature compensation  Altitude  Ambient operating temperature - min  Ambient operating temperature - min  Ambient toperating temperature (enclosed) - max  Ambient toperating temperature - min  Ambient toperating temperature (enclosed) - max  Ambient toperating temperature - min  Ambient toperating temperature - min  Ambient toperating temperature (enclosed) - max  Ambient toperating temperature - min	eatures & Functions	
Connection  Connec	Actuator type	Turn button
Connection  Degree of protection  Lifespan, electrical  Lifespan, mechanical  Mounting position  Operating frequency  Overvoltage category  Product category  Product category  Protection  Rated impulse withstand voltage (Uimp)  Shock resistance  Shock resistance  Suitable for  Temperature compensation  Altitude  Ambient operating temperature - min  Ambient operating temperature	Number of poles	Three-pole
Degree of protection  Lifespan, electrical  Lifespan, mechanical  Mounting position  Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.  Operating frequency  Overvoltage category  III  Pollution degree  3  Product category  Motor protective circuit breaker  Protection  Finger and back-of-hand proof, Protection against direct contact when actuary from front IEN 50274)  Rated impulse withstand voltage (Uimp)  Shock resistance  25 g. Mechanical, according to IEC/EN 60088-2-27, Half-sinusoidal shock 10  Suitable for  Also metors with efficiency classe IE3  Temperature compensation  5 - 40 °C to IEC/EN 60047, VDE 0660 5 0.25 %/K. residual error for T > 40° -25 - 55 °C, Operating range  Type  Antitude  Ambient operating temperature - min  Abient operating temperature - min  Ambient operating temperature - max  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  Ambient storage temperature - max  Climatic proofing  Climatic proofing  Damp heat, cyclic, to IEC 60088-2-30	General information	
Lifespan, electrical Lifespan, electrical Lifespan, mechanical Mounting position Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.  Operating frequency Overvoltage category III  Pollution degree Product category Motor protective circuit breaker Protection Finger and back-of-hand proof, Protection against direct contact when actt from fromt (EN 50274)  Rated impulse withstand voltage (Uimp) Shock resistance Sould be for Also motors with efficiency class IE3  Temperature compensation  Type Short-circuit protective device only  Simulatic environmental conditions Altitude Ambient operating temperature - max Abient operating temperature - max Abient operating temperature (enclosed) - mix Ambient storage temperature - max Damp heat, cyclic, to IEC 60068-2-30	Connection	Screw terminals
Lifespan, mechanical  Mounting position  Operating frequency  Overvoltage category  Pollution degree  Product category  Protection  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Temperature compensation  Type  Type  Short-circuit protective device only  Type  Ambient operating temperature - max  Ambient storage temperature - max  Ambient storage temperature - min  Ambient storage temperature - max  Ambient storage temperature - max  Climatic proofing  Mounting position  Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.  Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.  40 Operations/h  Motor protective circuit breaker  Finger and back-of-hand proof, Protection against direct contact when acts from from (EN 50274)  6000 V AC  6000 V AC  6000 V AC  Also motors with efficiency class IE3  5 - 40 °C to IEC/EN 60947, VDE 6096  4.0 2.5 °C to IEC/EN 60947, VDE 6096  4.0 10 °C College only  Type  Ambient operating temperature - min  Ambient operating temperature (enclosed) - min  Ambient storage temperature (enclosed) - max  Ambient storage temperature - min  Ambient storage temperature - min  Ambient storage temperature - max  Climatic proofing  Damp heat, cyclic, to IEC 60088-2-30	Degree of protection	
Mounting position  Operating frequency  Overvoltage category  Pollution degree  Product category  Protection  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Temperature compensation  Temperature compensation  Temperature compensation  Abient operating temperature - min  Ambient operating temperature (enclosed) - mix  Ambient operating temperature e min  Ambient operating temperature - mix  Ambient storage temperature - mix  Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.  40 Operatings/h  40 Operations/h  III  Who operations/h  Motor protective circuit breaker  Finger and back-of-hand proof, Protection against direct contact when acts from from ft (EN 50274)  Finger and back-of-hand proof, Protection against direct contact when acts from from ft (EN 50274)  And beint protective circuit breaker  Finger and back-of-hand proof, Protection against direct contact when acts when acts with efficiency class IE3  Altitude  Also motors with efficiency class IE3  S- 40 °C to IEC/EN 60947, VDE 0660  \$-0.25 %/K, residual error for T > 40°  \$-25 - 55 °C, Operating range  What could be a contact when acts when acts with a contact when acts with efficiency class IE3  Altitude  Max. 2000 m  Ambient operating temperature - min  Ambient operating temperature (enclosed) - mix  40 °C  Ambient storage temperature - mix  40 °C  Climatic proofing  Damp heat, cyclic, to IEC 60088-2-30	Lifespan, electrical	100,000 operations
Operating frequency Overvoltage category III  Pollution degree 3  Product category Motor protective circuit breaker  Protection Finger and back-of-hand proof, Protection against direct contact when acts 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 Suitable for Also motors with efficiency class IE3 Temperature compensation 7-40 °C to IEC/EN 60947, VDE 0660 < 0.0 25 %/K. residual error for T > 40° < 25 - 55 °C, Operating range  Short-circuit protective device only  Wax. 2000 m  Ambient operating temperature - min Ambient operating temperature (enclosed) - min Ambient operating temperature (enclosed) - min Ambient operating temperature - min Ambient storage temperature - min Ambient storage temperature - min Ambient storage temperature - max Ambient storage temperature - min Ambient storage temperature - max Ambient storage temperature - min Ambient storage temperature - max Ambient storage temperature - min Ambient storage temperature - max Damp heat, cyclic, to IEC 60068-2-30	Lifespan, mechanical	100,000 Operations
Vervoltage category  Pollution degree  3  Product category  Protection  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Temperature compensation  Type  Short-circuit protective device only  Short-circuit protective device only  Short-circuit protective device only  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  Ambient storage temperature - max  Climatic proofing  Climatic proofing  Damp heat, cyclic, to IEC 60088-2-30	Mounting position	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
Pollution degree 3 3 Product category Motor protective circuit breaker Protection Finger and back-of-hand proof, Protection against direct contact when acts 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 Suitable for Also motors with efficiency class IE3  Temperature compensation 5.0 4.0 °C to IEC/EN 6007 V AC  Short-circuit protective device only  Simatic environmental conditions  Altitude Max. 2000 m  Ambient operating temperature - min -25 °C  Ambient operating temperature (enclosed) - min -25 °C  Ambient operating temperature (enclosed) - max -25 °C  Ambient storage temperature (enclosed) - max -25 °C  Ambient storage temperature - min -25 °C  Climatic proofing -25 °C  Damp heat, cyclic, to IEC 60068-2-30	Operating frequency	40 Operations/h
Product category  Production  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Imperature compensation  Suitable for  Type  Climatic environmental conditions  Altitude  Ambient operating temperature - max  Ambient operating temperature (enclosed) - max  Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  Ambient storage temperature - max  Climatic proofing  Climatic proofing  Damp heat, cyclic, to IEC 60088-2-30	Overvoltage category	III
Protection  Finger and back-of-hand proof, Protection against direct contact when actu from front (EN 50274)  Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Also motors with efficiency class IE3  Temperature compensation  -5 - 40 °C to IEC/EN 60068-2-27, Half-sinusoidal shock 10  \$\frac{25}{5}\text{, residual error for T > 40^\text{ conditions}}{2.5 - 55 °C}, Operating range  Type  Short-circuit protective device only  Hittude  Anbient operating temperature - min  Anbient operating temperature - max  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  Ambient storage temperature - max  But Protection against direct contact when actured to according to the storage temperature - min  Ambient storage temperature - min  Ambient storage temperature - max  But Protection against direct contact when actured to according to the storage temperature - min  Ambient storage temperature - min	Pollution degree	3
Rated impulse withstand voltage (Uimp)  Shock resistance  Suitable for  Also motors with efficiency class IE3  Temperature compensation  Type  Short-circuit protective device only  Short-operating temperature - min  Ambient operating temperature (enclosed) - min  Ambient storage temperature - min	Product category	Motor protective circuit breaker
Shock resistance 25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10  Suitable for Also motors with efficiency class IE3  Temperature compensation 5- 40 °C to IEC/EN 60947, VDE 0660	Protection	Finger and back-of-hand proof, Protection against direct contact when actuate from front (EN 50274)
Suitable for  Temperature compensation  Type  Short-circuit protective device only  Short-circuit protective device only  Max. 2000 m  Ambient operating temperature - max  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  Ambient storage temperature - max  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30	Rated impulse withstand voltage (Uimp)	6000 V AC
Temperature compensation  -5 - 40 °C to IEC/EN 60947, VDE 0660 < 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range  Type  Short-circuit protective device only  Altitude  Max. 2000 m  Ambient operating temperature - min  Ambient operating temperature - max  55 °C  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  40 °C  Ambient storage temperature - max  Elimatic environmental conditions  OC  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30	Shock resistance	25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Short-circuit protective device only  Climatic environmental conditions  Altitude  Ambient operating temperature - max  Ambient operating temperature (enclosed) - min  Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  Damp heat, cyclic, to IEC 60068-2-30	Suitable for	Also motors with efficiency class IE3
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) - 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	Temperature compensation	≤ 0.25 %/K, residual error for T > 40°
Altitude  Ambient operating temperature - min  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	Туре	Short-circuit protective device only
Ambient operating temperature - min  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  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30	Climatic environmental conditions	
Ambient operating temperature - min  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  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30	Altitude	Max. 2000 m
Ambient operating temperature - max  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	Ambient operating temperature - min	-25 °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		
Ambient operating temperature (enclosed) - max  Ambient storage temperature - min  40 °C  Ambient storage temperature - max  80 °C  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30		
Ambient storage temperature - min  40 °C  Ambient storage temperature - max  80 °C  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30		
Ambient storage temperature - max  80 °C  Climatic proofing  Damp heat, cyclic, to IEC 60068-2-30		
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 (1 - 6) mm², ferrule to DIN 46228 2 x (1 - 6) mm², ferrule to DIN 46228
Terminal capacity (solid)	2 x (1 - 6) mm <sup>2</sup> 1 x (1 - 6) mm <sup>2</sup>
Terminal capacity (solid/stranded AWG)	18 - 10
Stripping length (main cable)	10 mm
Tightening torque	1.7 Nm, Screw terminals, Main cable 1 Nm, Screw terminals, Control circuit cables
Electrical rating	
Rated frequency - min	50 Hz
Rated frequency - max	60 Hz
Rated operational current (Ie)	2.5 A
Rated operational power at AC-3, 220/230 V, 50 Hz	0.37 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	0.75 kW
Rated operational power at AC-3, 440 V, 50 Hz	1.1 kW
Rated operational power at AC-3, 500 V, 50 Hz	1.1 kW
Rated operational power at AC-3, 690 V, 50 Hz	1.5 kW
Rated operational voltage (Ue) - min	690 V
Rated operational voltage (Ue) - max	690 V
Rated uninterrupted current (Iu)	2.5 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 38.8 A, Irm, Setting range max. ± 20% tolerance, Trip blocks
Switching capacity	
Switching capacity	2.5 A (3 contacts in series), DC-5 up to 250V 2.5 A, AC-3 up to 690 V
rip blocks	
Overload release current setting - min	0 A
Overload release current setting - max	0 A
Design verification	
Equipment heat dissipation, current-dependent Pvid	5.16 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	1.72 W
Rated operational current for specified heat dissipation (In)	2.5 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 lobserved.

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])	071		
Overload release current setting		Α	0 - 0
Adjustment range undelayed short-circuit release		Α	39 - 39
With thermal overload protection			No
Phase failure sensitive			No
Switch off technique			Magnetic
Rated operating voltage		V	690 - 690
Rated permanent current lu		Α	2.5
Rated operation power at AC-3, 230 V		kW	0.37
Rated operation power at AC-3, 400 V		kW	0.75
Power loss		W	5.16
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