## Transformer-protective circuit-breaker, 3p, Ir=1.6-2.5A, screw connection



Powering Business Worldwide

Part no. PKZM0-2,5-T

088913

**EL Number** 4315156

(Norway)

(Norway)	
General specifications	
Product name	Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker
Part no.	PKZM0-2,5-T
EAN	4015080889137
Product Length/Depth	76 millimetre
Product height	93 millimetre
Product width	45 millimetre
Product weight	0.282 kilogram
Certifications	VDE 0660 IEC/EN 60947
Product Tradename	PKZM0
Product Type	Transformer-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	Complete device with protection unit Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Fitted with:	Switched-off indicator
Functions	Transformer protection  For the protection of transformers with a high inrush current
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	Transformer 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 DIN rail (top hat rail) mounting
Temperature compensation	-25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660 $\leq$ 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

2 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228
1 x (1 - 6) mm <sup>2</sup> , ferrule to DIN 46228
1 x (1 - 6) mm <sup>2</sup> 2 x (1 - 6) mm <sup>2</sup>
18 - 10
10 mm
1.7 Nm, Screw terminals, Main cable
1 Nm, Screw terminals, Control circuit cables
50 Hz
60 Hz
2.5 A
690 V
690 V
2.5 A
150 kA
5 kA
5 kA
60 kA DC, up to 250 V DC, Main conducting paths
± 20% tolerance, Trip blocks Basic device, fixed 20 x Iu, Trip Blocks 50 A, Irm, Setting range max.
2.5 A (3 contacts in series), DC-5 up to 250V 2.5 A, AC-3 up to 690 V
0
0
0
1.6 A
2.5 A
4.71 W
0 W
1.57 W
2.5 A
0 W
Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
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Meets the product standard's requirements.
Does not apply, since the entire switchgear needs to be evaluated.
Meets the product standard's requirements.

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) / Power circuit-breaker for trafo/generator/installation protection (EC000228)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Circuit breaker (LV < 1 kV) / Circuit breaker for power transformer, generator and system protection (ecl@ss13-27-37-04-09 [AJZ716018])

Rated permanent current lu	Α	2.5
Rated voltage	V	690 - 690
Rated short-circuit breaking capacity Icu at 400 V, 50 Hz	kA	150
Overload release current setting	Α	1.6 - 2.5
Adjustment range short-term delayed short-circuit release	Α	0 - 0
Adjustment range undelayed short-circuit release	Α	50 - 50
Power loss	W	4.71
Device construction		Built-in device fixed built-in technique
Integrated earth fault protection		No
Type of electrical connection of main circuit		Screw connection
Suitable for DIN rail (top hat rail) mounting		Yes
DIN rail (top hat rail) mounting optional		Yes
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
With switched-off indicator		Yes
With integrated under voltage release		No
Number of poles		3
Position of connection for main current circuit		Other
Type of control element		Turn button
Complete device with protection unit		Yes
Motor drive integrated		No
Motor drive optional		No
Degree of protection (IP)		IP20