Specifications



Photo is representative





Eaton 286081

Eaton Moeller® series PKZM01 Motorprotective circuit-breaker, 440 V: 0.18 kW, Ir = 0.4 - 0.63 A, IP65

General specifications	
PRODUCT NAME	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
CATALOG NUMBER	286081
EAN	4015082860813
PRODUCT LENGTH/DEPTH	158 mm
PRODUCT HEIGHT	80 mm
PRODUCT WIDTH	117 mm
PRODUCT WEIGHT	0.568 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	IEC 60947-4-1 CSA Std. C22.2 No. 14 UL 508 VDE VDE 0660 IEC/EN 60947
MODEL CODE	PKZM01-0,63-G



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 50,000 operations (at LIFESPAN, ELECTRICAL 400V, AC-3) 50,000 Operations (Main LIFESPAN, MECHANICAL conducting paths) Can be snapped on to **MOUNTING POSITION** IEC/EN 60715 top-hat rail with 7.5 or 15 mm height. **OPERATING FREQUENCY** 25 Operations/h **OVERVOLTAGE** Ш CATEGORY **POLLUTION DEGREE** 3 Motor protective circuit **PRODUCT CATEGORY** breaker Finger and back-of-hand proof, Protection against PROTECTION direct contact when actuated from front (EN 50274) **RATED IMPULSE** WITHSTAND VOLTAGE 6000 V AC (UIMP) 25 g, Mechanical, according to IEC/EN SHOCK RESISTANCE 60068-2-27, Half-

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 CAPACITY
(SOLID/STRANDED AWG)18 - 10STRIPPING LENGTH
(MAIN CABLE)10 mmTIGHTENING TORQUE1.7 Nm, Screw terminals,
Main cable

Terminal capacities

Electrical rating

50 Hz
60 Hz
0.09 kW
0.12 kW
440 V

 Short-circuit rating

 short-circuit current

 60 kA DC, up to 250 V DC, Main conducting paths

 Basic device fixed 15.5 x lu

 ± 20% tolerance 9.8 A, Irm

Com	mur	icat	ion	

RATED OPERATIONAL

VOLTAGE (UE) - MAX RATED UNINTERRUPTED

CONNECTION

CURRENT (IU)

Screw terminals

440 V

0.63 A

Trip blocks	
OVERLOAD RELEASE CURRENT SETTING - MIN	0.4 A
OVERLOAD RELEASE CURRENT SETTING - MAX	0.63 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A

Design verification

EQUIPMENT HEAT
DISSIPATION, CURRENT- 5.16 W DEPENDENT PVID
HEAT DISSIPATION CAPACITY PDISS
HEAT DISSIPATION PER POLE, CURRENT- 1.72 W DEPENDENT PVID
RATED OPERATIONALCURRENT FOR SPECIFIED0.63 AHEAT DISSIPATION (IN)
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS
10.2.2 CORROSIONMeets the productRESISTANCEstandard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURESMeets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OFMeets the product standard's requirements.INSULATING MATERIALS TO NORMAL HEATMeets the product standard's requirements.
10.2.3.3 RESIST. OFINSUL. MAT. TOABNORMAL HEAT/FIREBY INTERNAL ELECT.EFFECTS
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATIONMeets the product standard's requirements.
10.2.5 LIFTING Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 MECHANICALDoes not apply, since the entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS Meets the product standard's requirements.
10.3 DEGREE OFDoes not apply, since thePROTECTION OFentire switchgear needs toASSEMBLIESbe evaluated.
10.4 CLEARANCES AND Meets the product CREEPAGE DISTANCES standard's requirements.
10.5 PROTECTION Does not apply, since the

Resources	
BROCHURES	<u>eaton-motor-starters-</u> <u>system-xstart-brochure-</u> <u>br03407001en-en-us.pdf</u>
CATALOGUES	<u>eaton-switching-and-</u> protecting-motors- product-range-catalog- ca034001en-en-us.pdf
	Product Range Catalog Switching and protecting motors
	<u>eaton-product-overview-</u> <u>for-machinery-catalogue-</u> <u>ca08103003zen-en-us.pdf</u>
CHARACTERISTIC CURVE	<u>eaton-manual-motor-</u> <u>starters-characteristic-</u> <u>characteristic-curve-</u> <u>009.eps</u>
	<u>eaton-manual-motor-</u> <u>starters-characteristic-</u> <u>characteristic-curve-</u> <u>004.eps</u>
	<u>eaton-manual-motor-</u> <u>starters-characteristic-</u> <u>characteristic-curve-</u> <u>008.eps</u>
DECLARATIONS OF CONFORMITY	DA-DC-00004914.pdf
DRAWINGS	eaton-manual-motor- starters-circuit-breaker- pkzm01-dimensions.eps
	<u>eaton-general-ie-ready-</u> <u>dilm-contactor-</u> <u>standards.eps</u>
ECAD MODEL	ETN.286081.edz
INSTALLATION VIDEOS	<u>WIN-WIN with push-in</u> technology
	<u>DA-CS-pkzm0</u>
MCAD MODEL	<u>DA-CD-ci_pkz01_g</u> <u>DA-CD-pkzm0</u>
	<u>DA-CS-ci pkz01 g</u>
SALES NOTES	eaton-link-module-for- motor-starters-pkz-flyer- fl034003en-en-us.pdf

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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls 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.

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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