## Specifications

Photo is representative

## Eaton 278483

Eaton Moeller® series PKZM01 Motorprotective circuit-breaker, 440 V: 3 kW, Ir = 4 - 6.3 A, IP20

General specification	าร
PRODUCT NAME	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
CATALOG NUMBER	278483
MODEL CODE	PKZM01-6,3
EAN	4015082784836
PRODUCT LENGTH/DEPTH	93 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.3 kg
CERTIFICATIONS	IEC/EN 60947 UL File No.: E36332 UL 60947-4-1 UL Category Control No.: NLRV CSA CSA Class No.: 3211-05 CSA File No.: 165628 VDE 0660 IEC/EN 60947-4-1 CE CSA-C22.2 No. 60947-4-1-14 UL



Product specification	s
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
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.
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.

	Resources	
t	BROCHURES	eaton-motor-starters- system-xstart-brochure- br03407001en-en-us.pdf
		Product Range Catalog Switching and protecting motors
	CATALOGS	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
		Switching and protecting motors - catalog
		eaton-manual-motor- starters-characteristic- characteristic-curve- 009.eps
	CHARACTERISTIC CURVE	eaton-manual-motor- starters-characteristic- characteristic-curve- 008.eps
		eaton-manual-motor- starters-characteristic- characteristic-curve- 007.eps
<b>5.</b>	DECLARATIONS OF CONFORMITY	DA-DC-00004914.pdf  DA-DC-00004884.pdf
i.		eaton-manual-motor- starters-circuit-breaker- pkzm01-dimensions.eps
<b>5.</b>		eaton-general-ie-ready- dilm-contactor- standards.eps
s.	DRAWINGS	eaton-manual-motor- starters-circuit-breaker- pkzm01-3d-drawing- 002.eps
5.		eaton-manual-motor- starters-mounting-3d- drawing-002.eps
 e	ECAD MODEL	ETN.278483.edz
to	INSTALLATION INSTRUCTIONS	IL03407011Z.pdf  IL03402034Z  L122012ZU
e to	INSTALLATION VIDEOS	WIN-WIN with push-in technology
5.	MANUALS AND USER GUIDES	<u>IL122023ZU</u>

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 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.           OPERATING FREQUENCY         25 Operations/h           POLLUTION DEGREE         3           CLIMATIC PROOFING         Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78           ACTUATOR TYPE         Push button           ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX         98 A           AMBIENT OPERATING TEMPERATURE - MAX         55 °C           AMBIENT OPERATING TEMPERATURE - MAX         40 °C           AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN         -25 °C           AMBIENT STORAGE TEMPERAT		
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CLIMATIC PROOFING  CLIMATIC PROOFING  CLIMATIC PROOFING  COMPANSE    COMPANSE	POLLUTION DEGREE	3
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MCAD MODEL	DA-CS-pkzm01
	DA-CD-pkzm01
SALES NOTES	eaton-link-module-for- motor-starters-pkz-flyer-
	fl034003en-en-us.pdf

AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	0.25 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	1 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	0.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	1.5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	5 HP
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	5.68 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	1.89 W
INTERNAL RESISTANCE	46 mΩ
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
ALTITUDE	Max. 2000 m
DEVICE CONSTRUCTION	Built-in device fixed built- in technique
CONNECTION	Screw terminals
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
MOUNTING POSITION	Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
LIFESPAN, MECHANICAL	50,000 Operations (Main conducting paths)
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	Terminals: IP00 IP20

NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
SHOCK RESISTANCE	25 g, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
FUNCTIONS	Phase failure sensitive Motor protection
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10
SWITCHING CAPACITY	6.3 A (3 contacts in series), DC-5 up to 250V 6.3 A, AC-3 up to 440 V
OVERLOAD RELEASE CURRENT SETTING - MAX	6.3 A
OVERLOAD RELEASE CURRENT SETTING - MIN	4 A
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) - MAX	440 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	440 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	6.3 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	1.1 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	2.2 kW
RATED UNINTERRUPTED CURRENT (IU)	6.3 A
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	10 mm
PRODUCT CATEGORY	Motor protective circuit breaker
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	3 kW
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	50 kA
SUITABLE FOR	Branch circuit: Manual type E if used with terminal, or suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x lu ± 20% tolerance 97.7 A, Irm
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm <sup>2</sup> 2 x (1 - 6) mm <sup>2</sup>
RATED OPERATIONAL CURRENT (IE)	6.3 A
TEMPERATURE COMPENSATION	≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range -5 - 40 °C to IEC/EN 60947, VDE 0660
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths
SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB, SCCR (UL/CSA)
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable
SWITCH OFF TECHNIQUE	Thermomagnetic
TERMINAL CAPACITY	2 x (1 - 6) mm <sup>2</sup> , ferrule to

FERRULE)	1 x (1 - 6) mm², ferrule to DIN 46228
POWER LOSS	5.68 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



## **Eaton Corporation plc**

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