

Specifications



Photo is representative



Eaton 265350

Eaton Moeller® series PKZM0 Motor-Protective Circuit-Breakers, 3-pole, Ir = 1 - 1.6 A, screw/spring clamp connection, rotary handle lockable

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
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CATALOG NUMBER	265350
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EAN	4015082653507
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PRODUCT LENGTH/DEPTH	77 mm
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PRODUCT HEIGHT	93 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.32 kg
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CERTIFICATIONS	CSA CE CSA File No.: 165628 IEC/EN 60947 UL Category Control No.: NLRV IEC/EN 60947-4-1 UL 60947-4-1 UL VDE 0660 CSA Class No.: 3211-05 CSA-C22.2 No. 60947-4-1-14 UL File No.: E36332
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CATALOG NOTES	This item can only be ordered until December 31, 2023 with a maximum delivery date of May 31, 2024.
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MODEL CODE	PKZM0-1,6-SC/AK
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Features & Functions

ACTUATOR TYPE	Turn button
FEATURES	Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
FUNCTIONS	Motor protection Phase failure sensitive
NUMBER OF POLES	Three-pole

General information

CONNECTION	Screw terminals on feed side Spring-cage terminals on output side
EXPLOSION SAFETY CATEGORY FOR DUST	ATEX dust-ex-protection, PTB 10, ATEX 3013, Ex II(2) GD
LIFESPAN, ELECTRICAL	100,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	100,000 Operations (Main conducting paths)
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
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	-25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660

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 Damp heat, constant, to IEC 60068-2-78

Electrical rating

RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	0.25 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	0.55 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	1.6 A

Switching capacity

SWITCHING CAPACITY	1.6 A (3 contacts in series), DC-5 up to 250V 1.6 A, AC-3 up to 690 V
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Terminal capacities

TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm², Spring-loaded terminals 2 x (0.75 - 2.5) mm², Spring-loaded terminals
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14
STRIPPING LENGTH (MAIN CABLE)	10 mm
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable

Short-circuit rating

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	150 kA
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths Basic device fixed 15.5 x Iu
SHORT-CIRCUIT RELEASE	± 20% tolerance 24.8 A, I _{rm}

Trip blocks

OVERLOAD RELEASE CURRENT SETTING - MIN	1 A
OVERLOAD RELEASE CURRENT SETTING - MAX	1.6 A

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	5.36 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	1.79 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1.6 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.

Resources

BROCHURES	eaton-push-in-technology-product-overview-brochure-br034012-en-us.pdf
	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
	Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-manual-motor-starters-characteristic-characteristic-curve-009.eps
	eaton-manual-motor-starters-characteristic-characteristic-curve-006.eps
	eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps
	eaton-manual-motor-starters-pkz-dimensions-002.eps
DRAWINGS	eaton-manual-motor-starters-pkzm0-dimensions.eps
	eaton-manual-motor-starters-pkz-dimensions.eps
	eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps
	eaton-general-ie-ready-dilm-contactor-standards.eps
	eaton-manual-motor-starters-pkzm0-3d-drawing-005.eps
	eaton-manual-motor-starters-mounting-3d-drawing-002.eps
	ETN.265350.edz
INSTALLATION	IL03407010Z.pdf

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.

INSTRUCTIONS	IL03402034Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MANUALS AND USER GUIDES	IL122023ZU
MCAD MODEL	pkzm0_04_sc_ak_gvp2.dwg pkzm0_04_sc_ak_gvp2.stp
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf
WIRING DIAGRAMS	eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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