

Specifications

Photo is representative

Eaton 132593

Eaton Moeller® series PKZM4 Circuit-breaker, Ir= 24 - 32 A, Screw terminals, Terminations: IP2X PKZM4-32-CB

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM4 Motor-protective circuit-breaker
CATALOG NUMBER	132593
EAN	4015081295289
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	165 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.18 kg
CERTIFICATIONS	CSA-C22.2 No. 5-09 CSA Class No.: 1432-01 UL CE CSA File No.: 165628 UL File No.: E31593 UL 489 UL Category Control No.: DIVQ VDE 0660 CSA IEC/EN 60947-2
CATALOG NOTES	Not usable as a main switch
MODEL CODE	PKZM4-32-CB

Features & Functions

ACTUATOR TYPE	Turn button
FEATURES	Complete device with protection unit
FUNCTIONS	For protection of cables and conductors Line and cable protection
NUMBER OF POLES	Three-pole

General information

CONNECTION	Screw terminals
LIFESPAN, ELECTRICAL	30,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	30,000 Operations (Main conducting paths)
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
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OPERATING FREQUENCY	40 Operations/h
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
PRODUCT CATEGORY	Motor protective circuit breaker
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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	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
SUITABLE FOR	Feeder and branch circuit as BCPD, (UL/CSA) DIN rail (top hat rail) mounting
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 ≤ 0.25 %/K, residual error for T > 40° -25 - 55 °C, Operating range

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, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30

Electrical rating

RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL VOLTAGE (UE) - MIN	600 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	32 A

Switching capacity

SWITCHING CAPACITY	32 A (3 contacts in series), DC-5 up to 250V 32 A, AC-3 up to 690 V
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Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE AWG)	14 - 8
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm ² 2 x (0.75 - 16) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	14 - 6
STRIPPING LENGTH (MAIN CABLE)	14 mm
TIGHTENING TORQUE	3.3 Nm, Screw terminals, Main cable

Short-circuit rating

RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	65 kA
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths
SHORT-CIRCUIT CURRENT RATING (UL 489 CSA 22.2-5.09)	65 kA, 480 Y/277 V, SCCR (UL/CSA) 22 kA, 600 Y/347 V, SCCR (UL/CSA)
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x Iu ± 20% tolerance 496 A, I _{rm}

Contacts

NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0

Trip blocks

OVERLOAD RELEASE CURRENT SETTING - MIN	0 A
OVERLOAD RELEASE CURRENT SETTING - MAX	32 A

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	18 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	6 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 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 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.

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-pkzm4-characteristic-curve-002.eps](#)

[eaton-motorstarters-tripping-characteristic-pkzm4-mccb-characteristic-curve.eps](#)

[eaton-manual-motor-starters-characteristic-pkzm4-characteristic-curve.eps](#)

[eaton-manual-motor-starters-pkzm4-characteristic-curve.eps](#)

DECLARATIONS OF CONFORMITY

[eaton-motor-protective-circuit-breaker-declaration-of-conformity-eu250690en.pdf](#)

[eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251173en.pdf](#)

DRAWINGS

[eaton-manual-motor-starters-mounting-l-pkz0-indicator-light-dimensions.eps](#)

[eaton-manual-motor-starters-circuit-breaker-pkzm4-dimensions.eps](#)

[eaton-manual-motor-starters-circuit-breaker-pkzm4-3d-drawing.eps](#)

[eaton-manual-motor-starters-pkzm4-mccb-3d-drawing.eps](#)

ECAD MODEL	ETN.132593.edz
INSTALLATION INSTRUCTIONS	eaton-motors-starters-pkzm4-motor-protective-circuit-breaker-instruction-leaflet-il03407012z.pdf IL03402025Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MANUALS AND USER GUIDES	eaton-motor-protective-circuit-breaker-pkzm4-overload-monitoring-exe-manual-mn03402002z-de-de-en-us.pdf
MCAD MODEL	DA-CS-pkzm4_cb DA-CD-pkzm4_cb
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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