Eaton 150622

Eaton Moeller® series PKZM4 Circuit-breaker, Ir= 10 - 16 A, Screw terminals, Terminations: IP2X PKZM4-16-CB/AK

PRODUCT NAME	Eaton Moeller® series PKZM4 Motor-protective circuit-breaker
CATALOG NUMBER	150622
PRODUCT LENGTH/DEPTH	171 mm
PRODUCT HEIGHT	165 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.187 kg
CERTIFICATIONS	CSA-C22.2 No. 5-09 UL 489 CSA File No.: 165628 VDE 0660 CE CSA Class No.: 1432-01 UL UL Category Control No.: DIVQ UL File No.: E31593 CSA IEC/EN 60947-2
CATALOG NOTES	Not usable as a main switch

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FEATURES	Complete device with protection unit
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.
10.3 DEGREE OF	Does not apply, since the

CHARACTERISTIC CURVE	eaton-manual-motor-starters-characteristic-pkzm4-characteristic-curve-002.eps eaton-manual-motor-starters-characteristic-pkzm4-characteristic-curve.eps eaton-motorstarters-tripping-characteristic-pkzm4-characteristic-curve.eps
DECLARATIONS OF CONFORMITY	eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251173en.pdf
MCAD MODEL	pkzm4_16_cb_ak.dwg pkzm4_16_cb_ak.stp
	eaton-motors-starters-pkzm4-motor-protective-circuit-breaker-instruction-leaflet-il03407012z.pdf IL03402025Z
	eaton-manual-motor-starters-transformer-pkzm0-wiring-diagram.eps
	eaton-manual-motor-starters-mounting-l-pkz0-indicator-light-dimensions.eps eaton-manual-motor-starters-pkz-pkzm4-mccb-dimensions.eps eaton-manual-motor-starters-pkzm4-mccb-3d-drawing.eps

PROTECTION OF ASSEMBLIES	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.
OPERATING FREQUENCY	40 Operations/h
POLLUTION DEGREE	3
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
ACTUATOR TYPE	Turn button
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MAX	0 A
ADJUSTMENT RANGE SHORT-TERM DELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MAX	224 A
ADJUSTMENT RANGE UNDELAYED SHORT-CIRCUIT RELEASE - MIN	0 A
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING	-25 °C

TEMPERATURE - MIN	
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	14.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	4.7 W
INTERNAL RESISTANCE	29 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
LIFESPAN, MECHANICAL	30,000 Operations (Main conducting paths)
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	Terminals: IP2X IP20
NUMBER OF POLES	Three-pole
LIFESPAN, ELECTRICAL	30,000 operations (at 400V, AC-3)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE AWG)	14 - 8
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
FUNCTIONS	For protection of cables and conductors

	Line and cable protection
TERMINAL CAPACITY (SOLID/STRANDED AWG)	14 - 6
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Other
SWITCHING CAPACITY	16 A (3 contacts in series), DC-5 up to 250V 16 A, AC-3 up to 690 V
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
OVERLOAD RELEASE CURRENT SETTING - MAX	16 A
OVERLOAD RELEASE CURRENT SETTING - MIN	0 A
RATED FREQUENCY - MAX	60 Hz
RATED FREQUENCY - MIN	50 Hz
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED OPERATIONAL VOLTAGE (UE) - MIN	600 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	16 A
RATED UNINTERRUPTED CURRENT (IU)	16 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
STRIPPING LENGTH (MAIN CABLE)	14 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 SHORT-CIRCUIT BREAKING CAPACITY ICU	65 kA

AT 400 V AC	
SUITABLE FOR	DIN rail (top hat rail) mounting Feeder and branch circuit as BCPD, (UL/CSA)
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x Iu ± 20% tolerance 248 A, Irm
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm^2 2 x (0.75 - 16) mm^2
RATED OPERATIONAL CURRENT (IE)	16 A
TEMPERATURE COMPENSATION	-25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40° -5 - 40 °C to IEC/EN 60947, VDE 0660
SHORT-CIRCUIT CURRENT	60 kA DC, up to 250 V DC, Main conducting paths
TIGHTENING TORQUE	3.3 Nm, Screw terminals, Main cable
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)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 16) mm^2, ferrule to DIN 46228 2 x (0.75 - 16) mm^2
POWER LOSS	14.1 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	

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