Especificaciones

La foto es representativa

Eaton 199200

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 7.5 kW, 10 - 16 A, Feed-side screw terminals/output-side push-in terminals, MSC

Especificaciones generales

PRODUCT NAME	Eaton Moeller® series PKZM0 Motor-protective circuit-breaker
CATALOG NUMBER	199200
EAN	4015081972845
PRODUCT LENGTH/DEPTH	75 mm
PRODUCT HEIGHT	102 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.319 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947 UL File No.: E36332 IEC/EN 60947-4-1 CSA File No.: 165628 UL Category Control No.: NLRV UL CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-05 CSA UL 60947-4-1 CE
MODEL CODE	PKZM0-16-SPI32

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Características y Funciones

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

General

CONNECTION	Screw terminals on feed side Push-in terminals on output side
LIFESPAN, ELECTRICAL	100,000 operations
LIFESPAN, MECHANICAL	100,000 Operations
MOUNTING METHOD	DIN rail (top hat rail) mounting optional
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
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 Branch circuit: Manual type E in combination with contactor DILM and terminal BK25/3-PKZ0-E, or suitable for group installations, (UL/CSA)
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40°
USED WITH	Motor starter combinations type MSC...

Condiciones climáticas ambientales

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

Secciones de conexión

TERMINAL CAPACITY (FLEXIBLE WITH UNISOLATED FERRULE)	1 x (1 - 6) mm^2, Screw terminals 2 x (1 - 6) mm^2, Screw terminals 1 x (1 - 6) mm^2, Push-in terminals 2 x (1 - 6) mm^2, Push-in terminals
TERMINAL CAPACITY (FLEXIBLE WITH ULTRASONIC WELDED CABLE END)	1 x (1 - 10) mm^2 2 x (1 - 6) mm^2 1 x (1 - 6) mm^2, Screw terminals 2 x (1 - 6) mm^2, Screw terminals 1 x (1 - 10) mm^2, Push-in terminals 2 x (1 - 6) mm^2, Push-in terminals
TERMINAL CAPACITY (FLEXIBLE)	1 x (1 - 6) mm^2, Push-in terminals 2 x (1 - 6) mm^2, Push-in terminals 1 x (1 - 6) mm^2, Screw terminals 2 x (1 - 6) mm^2, Screw terminals
TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm^2, Screw terminals 2 x (1 - 6) mm^2, Screw terminals 1 x (1 - 6) mm^2, Push-in terminals 2 x (1 - 6) mm^2, Push-in terminals
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10, screw terminals 18 - 8, Push-in terminals
STRIPPING LENGTH (MAIN CABLE)	12 mm
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable

Especificaciones eléctricas

RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL CURRENT (IE)	16 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	4 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN	690 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	690 V
RATED UNINTERRUPTED CURRENT (IU)	16 A

Clasificación de cortocircuito

SHORT-CIRCUIT CURRENT RATING (GROUP PROTECTION)	10 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 150 A, 600 V High Fault, Fuse, SCCR (UL/CSA) 10 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 125 A, 600 V High Fault, CB, SCCR (UL/CSA) 50 kA, 600 V High Fault, CB with CL, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB with CL, SCCR (UL/CSA) 50 kA, 600 V High Fault, Fuse with CL, SCCR (UL/CSA) with 600 A, 600 V High Fault, Fuse with CL, SCCR (UL/CSA) 18 kA, 480 V High Fault, CB, SCCR (UL/CSA) with 600 A, 480 V High Fault, CB, SCCR (UL/CSA) 18 kA, 480 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 480 V High Fault, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (TYPE E)	65 kA, 240 V, SCCR (UL/CSA) with contactor DILM17 65 kA, 480 Y/277 V, SCCR (UL/CSA) with contactor DILM17
SHORT-CIRCUIT RELEASE	Basic device fixed 15.5 x Iu ± 20% tolerance 248 A, Irm
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	38 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	15 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 440 V AC	12 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 500 V AC	15 kA

RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 500 V AC	4 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 690 V AC	3 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 690 V AC	2 kA

Potencia asignada de motor

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	1 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	3 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	5 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	10 HP

Contactos

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

Bloque de disparo

OVERLOAD RELEASE CURRENT SETTING - MIN	10 A
OVERLOAD RELEASE CURRENT SETTING - MAX	16 A
TRIPPING CHARACTERISTIC	Overload trigger: tripping class 10 A

Verificación del diseño

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	6.43 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.1 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	16 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0 W
10.2.2 CORROSION	Meets the product

RESISTANCE	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.

Recursos

DECLARATIONS OF CONFORMITY	DA-DC-00004887.pdf DA-DC-00004917.pdf
DIBUJOS	eaton-manual-motor-starters-pkz-dimensions.eps eaton-manual-motor-starters-pkz-dimensions-002.eps eaton-manual-motor-starters-pkzm-pkzm0-dimensions-003.eps
ECAD MODEL	ETN.199200.edz
INSTRUCCIONES DE MONTAJE	IL122024ZU
MCAD MODEL	pkzm0_s32_pi.dwg pkzm0_s32_pi.stp

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
FECHA:	

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublín 4, Irlanda
Eaton.com

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