

Eaton 189893

Eaton Moeller® series PKZM01 Motor-protective circuit-breaker (-EA), 440 V: 12.5 kW, I_r = 20 - 25 A, IP20

General specifications

PRODUCT NAME	Eaton Moeller® series PKZM01 Motor-protective circuit-breaker
CATALOG NUMBER	189893
EAN	4015081878895
PRODUCT LENGTH/DEPTH	93 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.299 kg
COMPLIANCES	RoHS conform CE Marked
MODEL CODE	PKZM01-25-EA

Caracteristici & funcții

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

Generalități

CONNECTION	Screw terminals
LIFESPAN, ELECTRICAL	50,000 operations (at 400V, AC-3)
LIFESPAN, MECHANICAL	50,000 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
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	Branch circuit: Suitable for group installations, (UL/CSA) Also motors with efficiency class IE3
TEMPERATURE COMPENSATION	-5 - 40 °C to IEC/EN 60947, VDE 0660 -25 - 55 °C, Operating range ≤ 0.25 %/K, residual error for T > 40°

Condiții climatice de mediu

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °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

Tensiune nominală

RATED FREQUENCY - MIN	50 Hz
RATED FREQUENCY - MAX	60 Hz
RATED OPERATIONAL CURRENT (IE)	25 A
RATED OPERATIONAL POWER AT AC-3E, 220/230 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3E, 380/400 V, 50 HZ	12.5 kW
RATED OPERATIONAL VOLTAGE (UE) - MIN	440 V
RATED OPERATIONAL VOLTAGE (UE) - MAX	440 V
RATED UNINTERRUPTED CURRENT (IU)	25 A

Secțiuni de racordare

TERMINAL CAPACITY (SOLID)	1 x (1 - 6) mm ² 2 x (1 - 6) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 10
STRIPPING LENGTH (MAIN CABLE)	10 mm
TIGHTENING TORQUE	1.7 Nm, Screw terminals, Main cable

Grad de protecție la scurtcircuit

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) 18 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, 600 V High Fault, CB with CL, SCCR (UL/CSA) with 600 A, 600 V High Fault, CB 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 RELEASE	Basic device fixed 15.5 x I _u ± 20% tolerance 388 A, I _{rm}
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS AT 400 V AC	10 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 400 V AC	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICU AT 440 V AC	10 kA

Capacitatea nominală a motorului

ASSIGNED MOTOR
POWER AT 230/240 V, 60 HZ, 3-PHASE 7.5 HP

ASSIGNED MOTOR
POWER AT 460/480 V, 60 HZ, 3-PHASE 15 HP

ASSIGNED MOTOR
POWER AT 575/600 V, 60 HZ, 3-PHASE 20 HP

Verificarea proiectării

EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT PVID 7.04 W

HEAT DISSIPATION
CAPACITY PDISS 0 W

HEAT DISSIPATION PER
POLE, CURRENT-
DEPENDENT PVID 2.3 W

RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN) 25 A

STATIC HEAT
DISSIPATION, NON-
CURRENT-DEPENDENT
PVS 0 W

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATA:

RATED SHORT-CIRCUIT
BREAKING CAPACITY ICS 3 kA
AT 440 V AC

Bloc de declanșare

OVERLOAD RELEASE
CURRENT SETTING - MIN 20 A

OVERLOAD RELEASE
CURRENT SETTING - MAX 25 A

Resurse

CHARACTERISTIC CURVE [eaton-manual-motor-starters-pkz-characteristic-curve.eps](#)

CHARACTERISTIC CURVE [eaton-manual-motor-starters-characteristic-characteristic-curve-008.eps](#)

DECLARATIONS OF
CONFORMITY [eaton-motor-protective-circuit-breaker-declaration-of-conformity-uk251169en.pdf](#)

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