

Eaton 189899

Catalog Number: 189899

Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 3p, Ir=0.63-1A, screw connection PKZM0-1,6-EA



General specifications

Product Name	Catalog Number
Eaton Moeller® series PKZM0 Motor-protective circuit-breaker	189899
	Model Code
	PKZM0-1,6-EA
EAN	Product Length/Depth
4015081878956	76 mm
Product Height	Product Width
93 mm	45 mm
Product Weight	Compliances
0.28 kg	RoHS conform
	CE Marked

defaultTaxonomyAttributeLabel

Features

Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)

Operating frequency

40 Operations/h

Pollution degree

3

Climatic proofing

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

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

Actuator type

Turn button

Adjustment range undelayed short-circuit release - max

25 A

Adjustment range undelayed short-circuit release - min

25 A

Ambient operating temperature (enclosed) - min

-25 °C

Ambient storage temperature - max

80 °C

Ambient storage temperature - min

-40 °C

Assigned motor power at 230/240 V, 60 Hz, 1-phase

0.1 HP

Assigned motor power at 460/480 V, 60 Hz, 3-phase

0.75 HP

Assigned motor power at 575/600 V, 60 Hz, 3-phase

0.75 HP

Equipment heat dissipation, current-dependent P_{vid}

5.36 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

1.8 W

Rated impulse withstand voltage (U_{imp})

6000 V AC

Resources

Brochures

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

Catalogs

[Switching and protecting motors - catalog](#)

[Product Range Catalog Switching and protecting motors](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

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](#)

Declarations of conformity

[DA-DC-00004890.pdf](#)

Drawings

[eaton-manual-motor-starters-pkz-dimensions-002.eps](#)

[eaton-manual-motor-starters-pkz-dimensions.eps](#)

[eaton-manual-motor-starters-pkz-dimensions-003.eps](#)

[eaton-manual-motor-starters-circuit-breaker-pkzm0-3d-drawing.eps](#)

[eaton-manual-motor-starters-pkzm0-3d-drawing-008.eps](#)

[eaton-general-ie-ready-dilm-contactor-standards.eps](#)

[eaton-manual-motor-starters-mounting-3d-drawing-002.eps](#)

eCAD model

[ETN.189899.edz](#)

Installation instructions

[IL034046ZU](#)

Installation videos

[WIN-WIN with push-in technology](#)

mCAD model

[DA-CD-pkzm0](#)

[DA-CS-pkzm0](#)

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](#)

Device construction

Built-in device fixed built-in technique

Connection

Screw terminals

Electrical connection type of main circuit

Screw connection

Mounting position

Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.

Lifespan, mechanical

100,000 Operations

Overvoltage category

III

Degree of protection

IP20

Number of poles

Three-pole

Lifespan, electrical

100,000 operations

Shock resistance

25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Functions

Phase failure sensitive

Switching capacity

1.6 A, AC-3 up to 690 V

Overload release current setting - max

1.6 A

Overload release current setting - min

1 A

Rated frequency - max

60 Hz

Rated frequency - min

50 Hz

Rated operational voltage (Ue) - max

690 V

Rated operational voltage (Ue) - min

690 V

Rated operational current for specified heat dissipation (In)

1.6 A

Rated operational power at AC-3, 220/230 V, 50 Hz

0.25 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

0.55 kW

Rated uninterrupted current (Iu)

1.6 A

Static heat dissipation, non-current-dependent Pvs

0 W

Stripping length (main cable)

10 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 operational power at AC-3, 440 V, 50 Hz

0.55 kW

Rated operational power at AC-3, 500 V, 50 Hz

0.75 kW

Rated operational power at AC-3, 690 V, 50 Hz

1.1 kW

Rated short-circuit breaking capacity Icu at 400 V AC

150 kA

Rated short-circuit breaking capacity Ics at 400 V AC

150 kA

Rated short-circuit breaking capacity Icu at 440 V AC

150 kA

Rated short-circuit breaking capacity Ics at 440 V AC

150 kA

Rated short-circuit breaking capacity Icu at 500 V AC

150 kA

Rated short-circuit breaking capacity Ics at 500 V AC

150 kA

Rated short-circuit breaking capacity Icu at 690 V AC

150 kA

Rated short-circuit breaking capacity I_{cs} at 690 V AC

150 kA

Suitable for

Branch circuit: Suitable for group installations, (UL/CSA)

Also motors with efficiency class IE3

Short-circuit release

$\pm 20\%$ tolerance, Trip blocks

24.8 A, I_{rm} , Setting range max.

Basic device fixed 15.5 x I_u , Trip Blocks

Rated operational current (I_e)

1.6 A

Temperature compensation

-5 - 40 °C to IEC/EN 60947, VDE 0660

-25 - 55 °C, Operating range

$\leq 0.25\ %/K$, residual error for $T > 40^\circ$

Short-circuit current rating (group protection)

50 kA, 600 V High Fault, Fuse, SCCR (UL/CSA) with 600 A, 600

V High Fault, Fuse, SCCR (UL/CSA)

50 kA, 600 V High Fault, CB, SCCR (UL/CSA) with 600 A, 600 V

High Fault, CB, SCCR (UL/CSA)

Switch off technique

Thermomagnetic

Terminal capacity (flexible with ferrule)

2 x (1 - 6) mm², ferrule to DIN 46228

1 x (1 - 6) mm², ferrule to DIN 46228

Power loss

5.36 W