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278493

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Eaton Moeller® series PKZM0 Motor-protective circuit-breaker, 3p, Ir=20-25A

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General specifications

Product Name

Eaton Moeller® series PKZM0 Transformer-protective circuit-breaker

Catalog Number

278493

Model Code

PKZM0-25-T

EAN

4015082784935

Product Length/Depth

76 mm

Product Height

93 mm

Product Width

45 mm

Product Weight

0.291 kg

Certifications

IEC/EN 60947

VDE 0660

Product specifications

Rated operational current for specified heat dissipation (In)

25 A

Terminal capacity (flexible with ferrule)

1 x(1 - 6) mm², ferrule to DIN 46228

2 x(1 - 6) mm², ferrule to DIN 46228

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Ambient operating temperature (enclosed) - min

25 °C

Rated short-circuit breaking capacity Ics at 440 VAC

3 kA

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Mounting Method

DIN rail (top hat rail) mounting optional

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Adjustment range short-term delayed short-circuit release - max

0 A

Switching capacity
25 A, AC-3 up to 690 V
25 A (3 contacts in series), DC-5 up to 250V
Stripping length (main cable)
10 mm
Ambient operating temperature (enclosed) - max
40 °C
Rated short-circuit breaking capacity Icu at 400 VAC
50 kA
10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
Ambient storage temperature - min
40 °C
Fitted with:
Switched-off indicator
Adjustment range undelayed short-circuit release - max
420 A
10.8 Connections for external conductors
Is the panel builder's responsibility.
Adjustment range short-term delayed short-circuit release - min
0 A
Protection
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Actuator type
Turn button
Ambient operating temperature - max
55 °C
Position of connection for main current circuit
Other
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Device construction
Built-in device fixed built-in technique
Features
Complete device with protection unit
Phase-failure sensitivity (according to IEC/EN 60947-4-1, VDE 0660 Part 102)
Lifespan, electrical
100,000 operations (at 400V, AC-3)
Static heat dissipation, non-current-dependent Pvs
0 W
Electrical connection type of main circuit
Screw connection
10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
Number of poles
Three-pole
Rated short-circuit breaking capacity Icu at 690 VAC
3 kA
Ambient operating temperature - min
-25 °C
10.6 Incorporation of switching devices and components
Does not apply, since the entire switchgear needs to be evaluated.
10.5 Protection against electric shock
Does not apply, since the entire switchgear needs to be evaluated.
Mounting position
Can be snapped on to IEC/EN 60715 top-hat rail with 7.5 or 15 mm height.
Rated uninterrupted current (Iu)
25 A
Short-circuit release
± 20% tolerance, Trip blocks
Basic device, fixed 20 x Iu, Trip Blocks
437 A, Irm, Setting range max
10.13 Mechanical function
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

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

2.28 W

Operating frequency

40 Operations/h

Product category

Transformer protective circuit breaker

Overload release current setting - min

20 A

Rated short-circuit breaking capacity I_{cs} at 400 VAC

38 kA

Rated short-circuit breaking capacity I_{cu} at 440 VAC

10 kA

Equipment heat dissipation, current-dependent P_{vid}

6.83 W

Heat dissipation capacity P_{diss}

0 W

Rated operational current (I_e)

25 A

Suitable for

Also motors with efficiency class IE3

DIN rail (top hat rail) mounting

Temperature compensation

-25 - 55 °C, Operating range

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

-5 - 40 °C to IEC/EN 60947, VDE 0660

Terminal capacity (solid)

2 x (1 - 6) mm²

1 x (1 - 6) mm²

Number of auxiliary contacts (normally closed contacts)

0

Rated frequency - min

50 Hz

Short-circuit current

40 kA DC, up to 250 VDC, Main conducting paths

Power loss

6.83 W

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.

Lifespan, mechanical

100,000 Operations (Main conducting paths)

Terminal capacity (solid/stranded AWG)

18 - 10

Overload release current setting - max

25 A

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Rated short-circuit breaking capacity I_{cs} at 500 VAC

3 kA

Overvoltage category

III

Degree of protection

IP20

Terminals: IP00

Rated frequency - max

60 Hz

Number of auxiliary contacts (change-over contacts)

0

Ambient storage temperature - max
80 °C
Adjustment range undelayed short-circuit release - min
420 A
Pollution degree
3
10.7 Internal electrical circuits and connections
Is the panel builder's responsibility.
Rated impulse withstand voltage (Uimp)
6000 VAC
Connection
Screw terminals
10.10 Temperature rise
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
Functions
For the protection of transformers with a high inrush current
Transformer protection
Tightening torque
1 Nm, Screw terminals, Control circuit cables
1.7 Nm, Screw terminals, Main cable
Rated short-circuit breaking capacity Icu at 500 VAC
3 kA
Rated operational voltage (Ue) - min
690 V
10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2.7 Inscriptions
Meets the product standard's requirements.
Number of auxiliary contacts (normally open contacts)
0
Rated short-circuit breaking capacity Ics at 690 VAC
1 kA
Shock resistance
25 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Rated operational voltage (Ue) - max
690 V
Altitude
Max. 2000 m
Serial Number Verified : 
Authenticated: 
The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

Brochures

- [Motor Starters in System xStart - brochure](#)
- [Save time and space thanks to the new link module PKZM0-XDM32ME](#)

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Catalogs

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

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Declarations of conformity

- [DA-DC-00004886.pdf](#)
- [DA-DC-00004915.pdf](#)

Drawings

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