Specifications

Eaton 082161

Catalog Number: 082161

Eaton Moeller® series U-PKZ0 Undervoltage release PKZ0(4), PKE, AC, 440 V 60 Hz, Screw terminals



General specifications

Product Name
Eaton Moeller® series U-PKZ0 Accessory Undervoltage Release

Catalog Number
082161

EAN
4015080821618

Product Length/Depth
68 mm

Product Height
90 mm

Product Width
24 mm

Product Weight
0.126 kg

Certifications
IEC/EN 60947-4-1
CE
UL File No.: E36332
CSA-C22.2 No. 14
CSA Class No.: 3211-05
CSA File No.: 165628
UL Category Control No.: NLRV
UL
CSA
UL 508

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Features & Functions

Electric connection type

Screw connection

General

Mounting position

Can be fitted to left side of the motor protection switch

Product category

Accessories

Suitable as

EMERGENCY STOP or EMERGENCY switching-off device in accordance with IEC/EN 60204 when combined with circuit breaker

Suitable for

Motor safety switch

Used with

Motor protective circuit-breaker

Voltage type

AC

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Terminal capacities

Terminal capacity (solid/flexible with ferrule)

2 x (0.75 - 2.5) mm²

1 x (0.75 - 2.5) mm²

Terminal capacity (solid/stranded AWG)

1 x (18 - 14)

2 x (18 - 14)

Electrical rating

Rated operational voltage (Ue) at AC - min

42 V

Rated operational voltage (Ue) at AC - max

480 V

Rated operational voltage (Ue) at DC - min

24 V

Rated operational voltage (Ue) at DC - max

250 V

Magnet system

Drop-out voltage

0,7- 0,35 x Uc

Pick-up voltage

0.85 - 1.1 V x Uc

Rated control supply voltage (Us) at AC, 50 Hz - min

0 V

Rated control supply voltage (Us) at AC, 50 Hz - max

0 V

Rated control supply voltage (Us) at AC, 60 Hz - min

440 V

Rated control supply voltage (Us) at AC, 60 Hz - max

440 V

Rated control supply voltage (Us) at DC - min

0 V

Rated control supply voltage (Us) at DC - max

0 V

Contacts

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

0

Number of contacts (normally open contacts)

0

Power consumption

Power consumption, pick-up, 50 Hz

5 VA, Pull-in power, Coil in a cold state and 1.0 x Us

Power consumption, pick-up, 60 Hz

5 VA, Pull-in power, Coil in a cold state and 1.0 x Us

Power consumption, sealing, 50 Hz

3 VA, Coil in a cold state and 1.0 x Us

Power consumption, sealing, 60 Hz

3 VA, Coil in a cold state and 1.0 x Us

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0 W

Rated operational current for specified heat dissipation (In)

0 A

Static heat dissipation, non-current-dependent Pvs

0.5 W

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 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.

Resources

Brochures

eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf

Catalogs

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

Declarations of conformity

DA-DC-00005040.pdf

DA-DC-00004992.pdf

DA-DC-00004881.pdf

DA-DC-00004230.pdf

DA-DC-00004937.pdf

DA-DC-00004988.pdf

DA-DC-00004945.pdf

DA-DC-00004976.pdf

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DA-DC-00004983.pdf

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DA-DC-00005031.pdf

DA-DC-00004883.pdf

DA-DC-00004067.pdf

DA-DC-00004952.pdf

DA-DC-00004886.pdf

DA-DC-00004787.pdf

Drawings

eaton-manual-motor-starters-release-u-pkz0-accessory-dimensions.eps

eaton-manual-motor-starters-shunt-releases-u-pkz0-accessory-3d-drawing.eps

eaton-manual-motor-starters-release-u-pkz0-accessory-3d-drawing.eps

eCAD model

ETN.082161.edz

Installation instructions

IL03402034Z

Installation videos

WIN-WIN with push-in technology

mCAD model

DA-CD-a_pkz

DA-CS-a_pkz

Sales notes

eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf

Wiring diagrams

eaton-manual-motor-starters-undervoltage-u-pkz0-accessory-wiring-diagram.eps

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