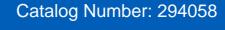
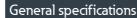
Eaton 294058



Eaton Moeller® series DILK Contactor for capacitors, with series resistors, 33.3 kVAr, 24 V 50/60 Hz



Product Name

Eaton Moeller® series DILK capacity

contactor

EAN

4015082940584

Product Height

190 mm

Product Weight

1.02 kg

Catalog Number

294058

Model Code

DILK33-10(24V50/60HZ)

Product Length/Depth

147 mm

Product Width

55 mm

Certifications

VDE 0660

IEC/EN 60947





defaultTaxonomyAttributeLabel

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.

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.

Resources

Catalogs

SmartWire-DT Catalog

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

eaton-product-overview-for-machinery-catalogue-ca08103003zen-enus.pdf

Declarations of conformity

DA-DC-00004785.pdf

DA-DC-00004814.pdf

Drawings

eaton-contactors-dilk-dimensions-003.eps

eaton-contactors-dilk-dimensions-005.eps

eaton-contactors-mounting-dilm-dimensions-002.eps

eaton-contactors-dilk-dimensions.eps

eaton-contactors-mounting-dilm-dimensions.eps

eaton-contactors-dilk-3d-drawing.eps

eCAD model

DA-CE-ETN.DILK33-10(24V50_60HZ)

Installation instructions

IL03407038Z

Installation videos

WIN-WIN with push-in technology

mCAD model

eaton-dilk33-50-3d-model.stp

DA-CD-dil_m40_72

eaton-dilk33-50-drawing.dwg

DA-CS-dil_m40_72

Wiring diagrams

eaton-contactors-circuit-dilk-wiring-diagram.eps

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.

Fitted with:

Series resistors

Operating frequency

120 Operations/h

Ambient operating temperature - max

60 °C

Ambient operating temperature - min

-25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient operating temperature (enclosed) - min

25 °C

Equipment heat dissipation, current-dependent Pvid

6.6 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

2.2 W

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

Number of contacts (normally closed) as main contact

0

Number of main contacts (normally open contact)

3

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

24 V

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

24 V

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

24 V

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

24 V

Rated control supply voltage (Us) at DC - max

0 V

Rated control supply voltage (Us) at DC - min

0 V

Rated operational current for specified heat dissipation (In)

40 A

Rated operational power at AC-6B, 220/230 V, 50 Hz

20 kW

Rated operational power at AC-6B, 380/400 V, 50 Hz

33.3 kW

Connection

Screw terminals

Rated operational power at AC-6B, 525 V, 50 Hz

40 kW

Rated operational power at AC-6B, 690 V, 50 Hz

55 kW

Static heat dissipation, non-current-dependent Pvs

4.1 W

Switching time (AC operated, make contacts, closing delay) - min

50 ms

Switching time (AC operated, make contacts, opening delay) -

min

40 ms

Application

Contactors for power factor correction

Product category

DILK Contactors for capacitors

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Number of auxiliary contacts (change-over contacts)

0

Operating voltage at AC, 50 Hz - min

230 V

Operating voltage at AC, 50 Hz - max

690 V

Operating voltage at AC, 60 Hz - min

230 V

Operating voltage at AC, 60 Hz - max

690 V

Rated blind power at 400 V, 60 Hz

33.3 kVA

Arcing time

10 ms

Electrical connection type of main circuit

Screw connection

Voltage type

AC

Degree of protection

IP00

Drop-out voltage

AC operated: 0.6 - 0.3 x UC, AC operated

Duty factor

100 %

Emitted interference

According to EN 60947-1

Interference immunity

According to EN 60947-1

Lifespan, electrical

150,000 Operations

Making capacity without damping (I-peak value)

180 x le

Pick-up voltage

0.8 - 1.15 V AC x Uc

Power consumption, pick-up, 50 Hz

45 VA, Dual-frequency coil in a cold state and 1.0 x Us

Power consumption, pick-up, 60 Hz

45 VA, Dual-frequency coil in a cold state and 1.0 x Us

Power consumption, sealing, 50 Hz

4.1 W, Dual-frequency coil in a cold state and 1.0 x Us

Power consumption, sealing, 60 Hz

4.1 W, Dual-frequency coil in a cold state and 1.0 x Us

1.5 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz

Rated blind power

33.3 kvar

Rated operational current (le)

50 A at 230 V (three-phase capacitors, open)

50 A at 690 V (three-phase capacitors, open)

45 A at 400 V (three-phase capacitors, enclosed)

45 A at 525 V (three-phase capacitors, enclosed)

45 A at 690 V (three-phase capacitors, enclosed)

45 A at 230 V (three-phase capacitors, enclosed)

50 A at 525 V (three-phase capacitors, open)

50 A at 400 V (three-phase capacitors, open)

Special purpose rating of capacitor switching

48 A, 480 V 60 Hz 3phase, (UL/CSA)

20 kVar, 240 V 60 Hz 3phase, (UL/CSA)

50 kVar, 600 V 60 Hz 3phase, (UL/CSA)

48 A, 600 V 60 Hz 3phase, (UL/CSA)

48 A, 240 V 60 Hz 3phase, (UL/CSA)

40 kVar, 480 V 60 Hz 3phase, (UL/CSA)

Terminal capacity (stranded)

1 x (16 - 50) mm², Main cables

Terminal capacity (copper band)

1 x (6 x 9 x 0.8) mm (Number of segments x width x thickness),

Main cables

Terminal capacity (flexible with ferrule)

1 x (2.5 - 35) mm², Main cables

Terminal capacity (solid)

1 x (2.5 - 16) mm², Main cables

Terminal capacity (solid/stranded AWG)

12 - 2, Main Cables



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