

# Eaton 294058

Catalog Number: 294058

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



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Moeller® series DILK capacity contactor	294058
	<b>Model Code</b>
	DILK33-10(24V50/60HZ)
<b>EAN</b>	<b>Product Length/Depth</b>
4015082940584	147 mm
<b>Product Height</b>	<b>Product Width</b>
190 mm	55 mm
<b>Product Weight</b>	<b>Certifications</b>
1.02 kg	VDE 0660 IEC/EN 60947

### 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.

### Catalogs

[SmartWire-DT Catalog](#)

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

[Switching and protecting motors - catalog](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.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 P<sub>vid</sub>

6.6 W

#### Heat dissipation capacity P<sub>diss</sub>

0 W

#### Heat dissipation per pole, current-dependent P<sub>vid</sub>

2.2 W

#### Number of auxiliary contacts (normally closed contacts)

0

#### Number of auxiliary contacts (normally open contacts)

0

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 I<sub>e</sub>

#### Pick-up voltage

0.8 - 1.15 V AC x U<sub>c</sub>

#### Power consumption, pick-up, 50 Hz

45 VA, Dual-frequency coil in a cold state and 1.0 x U<sub>s</sub>

#### Power consumption, pick-up, 60 Hz

45 VA, Dual-frequency coil in a cold state and 1.0 x U<sub>s</sub>

#### Power consumption, sealing, 50 Hz

4.1 W, Dual-frequency coil in a cold state and 1.0 x U<sub>s</sub>

#### Power consumption, sealing, 60 Hz

4.1 W, Dual-frequency coil in a cold state and 1.0 x U<sub>s</sub>

1.5 VA, Dual-frequency coil in a cold state and 1.0 x U<sub>s</sub>, at 60 Hz

#### Rated blind power

33.3 kvar

#### Rated operational current (I<sub>e</sub>)

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) mm<sup>2</sup>, 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) mm<sup>2</sup>, Main cables

#### Terminal capacity (solid)

1 x (2.5 - 16) mm<sup>2</sup>, Main cables

#### Terminal capacity (solid/stranded AWG)

12 - 2, Main Cables



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