

# Specifications



Photo is representative



## Eaton 294032

Eaton Moeller® series DILK Contactor for capacitors, with series resistors, 25 kVAR, 230 V 50 Hz, 240 V 60 Hz

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series DILK capacity contactor
<b>CATALOG NUMBER</b>	294032
<b>MODEL CODE</b>	DILK25- 11(230V50HZ,240V60HZ)
<b>EAN</b>	4015082940324
<b>PRODUCT LENGTH/DEPTH</b>	138 mm
<b>PRODUCT HEIGHT</b>	135 mm
<b>PRODUCT WIDTH</b>	45 mm
<b>PRODUCT WEIGHT</b>	0.51 kg
<b>CERTIFICATIONS</b>	CE CSA UL IEC/EN 60947 UL Category Control No.: NLDX CSA Class No.: 3211-04 CSA File No.: 012528 CSA-C22.2 No. 60947-4-1- 14 IEC/EN 60947-4-1 UL 60947-4-1 UL File No.: E29096
<b>PRODUCT TYPE</b>	Capacity contactor



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## Features Functions

**FITTED WITH:** Series resistors

## Climatic environmental conditions

**AMBIENT OPERATING TEMPERATURE - MIN** -25 °F

**AMBIENT OPERATING TEMPERATURE - MAX** 60 °F

**AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN** 25 °F

**AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX** 40 °F

## Terminal capacities

**TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)** 1 x (0.75 - 16) mm<sup>2</sup>, Main cables

**TERMINAL CAPACITY (SOLID)** 1 x (0.75 - 16) mm<sup>2</sup>, Main cables

**TERMINAL CAPACITY (SOLID/STRANDED AWG)** 18 - 6, Main cables

**TERMINAL CAPACITY (STRANDED)** 1 x 16 mm<sup>2</sup>, Main cables

## General

**APPLICATION** Contactors for power factor correction

**DEGREE OF PROTECTION** IP00

**LIFESPAN, ELECTRICAL** 150,000 Operations

**CONNECTION** Screw terminals

**OPERATING FREQUENCY** 120 Operations/h

**PRODUCT CATEGORY** DILK Contactors for capacitors

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

**VOLTAGE TYPE** AC

## Electro magnetic compatibility

**EMITTED INTERFERENCE** According to EN 60947-1

**INTERFERENCE IMMUNITY** According to EN 60947-1

## Electrical rating

**RATED OPERATIONAL CURRENT (IE)**  
38 A at 230 V (three-phase capacitors, open)  
38 A at 690 V (three-phase capacitors, open)  
34 A at 690 V (three-phase capacitors, enclosed)  
38 A at 400 V (three-phase capacitors, open)  
34 A at 230 V (three-phase capacitors, enclosed)  
38 A at 525 V (three-phase capacitors, open)  
34 A at 400 V (three-phase capacitors, enclosed)  
34 A at 525 V (three-phase capacitors, enclosed)

## Switching capacity

<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
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<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
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## Magnet system

<b>ARCING TIME</b>	10 ms
<b>DROP-OUT VOLTAGE</b>	AC operated: 0.6 - 0.3 x UC, AC operated
<b>DUTY FACTOR</b>	100 %
<b>PICK-UP VOLTAGE</b>	0.8 - 1.1 V AC x U <sub>c</sub>
<b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>	58 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz
<b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>	71 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz
<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	2.1 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz 7.6 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 50 Hz
<b>POWER CONSUMPTION, SEALING, 60 HZ</b>	9.3 VA, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x U <sub>s</sub> , at 60 Hz
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	240 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	240 V
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b>	16 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b>	22 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b>	14 ms

## Contacts

**MAKING CAPACITY  
WITHOUT DAMPING (I-  
PEAK VALUE)** 180 x I<sub>e</sub>

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
CLOSED CONTACTS)** 1

**NUMBER OF AUXILIARY  
CONTACTS (NORMALLY  
OPEN CONTACTS)** 1

## Special purpose ratings

36 A, 240 V 60 Hz 3phase,  
(UL/CSA)  
15 kVar, 240 V 60 Hz  
3phase, (UL/CSA)  
40 kVar, 600 V 60 Hz  
3phase, (UL/CSA)  
**SPECIAL PURPOSE  
RATING OF CAPACITOR  
SWITCHING** 38.4 A, 600 V 60 Hz  
3phase, (UL/CSA)  
30 kVar, 480 V 60 Hz  
3phase, (UL/CSA)  
36 A, 480 V 60 Hz 3phase,  
(UL/CSA)

## Design verification

<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	9.3 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	3.1 W
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	38 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	2.1 W
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.

## Resources

CATALOGS	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
	<a href="#">SmartWire-DT Catalog</a>
DECLARATIONS OF CONFORMITY	<a href="#">Product Range Catalog Switching and protecting motors</a>
	<a href="#">eaton-capacity-contactor-declaration-of-conformity-uk251239en.pdf</a>
DRAWINGS	<a href="#">eaton-capacity-contactor-declaration-of-conformity-eu250756en.pdf</a>
	<a href="#">eaton-contactors-dilk-dimensions-002.eps</a>
	<a href="#">eaton-contactors-dilk-dimensions-004.eps</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a>
ECAD MODEL	<a href="#">eaton-contactors-dilk-dimensions.eps</a>
	<a href="#">eaton-contactors-dilk-3d-drawing.eps</a>
INSTALLATION INSTRUCTIONS	<a href="#">ETN.DILK25-11(230V50HZ,240V60HZ).edz</a>
INSTALLATION VIDEOS	<a href="#">IL03407038Z</a>
MCAD MODEL	<a href="#">WIN-WIN with push-in technology</a>
	<a href="#">eaton-dilk12-25-drawing.dwg</a>
WIRING DIAGRAMS	<a href="#">eaton-dilk12-25-3d-model.stp</a>
	<a href="#">DA-CD-dil_m17_38</a>
	<a href="#">eaton-contactors-circuit-dilk-wiring-diagram-002.eps</a>

<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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