

Specifications



Photo is representative



Eaton 293988

Eaton Moeller® series DILK Contactor for capacitors, with series resistors, 12.5 kVAr, 230 V 50 Hz, 240 V 60 Hz

General specifications

PRODUCT NAME	Eaton Moeller® series DILK capacity contactor
CATALOG NUMBER	293988
MODEL CODE	DILK12- 11(230V50HZ,240V60HZ)
EAN	4015082939885
PRODUCT LENGTH/DEPTH	138 mm
PRODUCT HEIGHT	135 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.51 kg
WARRANTY	1 year
CERTIFICATIONS	CSA File No.: 012528 CE CSA-C22.2 No. 60947-4-1- 14 UL Category Control No.: NLDX UL File No.: E29096 IEC/EN 60947 UL UL 60947-4-1 IEC/EN 60947-4-1 CSA CSA Class No.: 3211-04
PRODUCT TYPE	Capacity contactor

Features Functions

FITTED WITH:	Series resistors
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General

APPLICATION	Contactors for power factor correction
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

Climatic environmental conditions

AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
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AMBIENT OPERATING TEMPERATURE - MAX	60 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
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Electro magnetic compatibility

EMITTED INTERFERENCE	According to EN 60947-1
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INTERFERENCE IMMUNITY	According to EN 60947-1
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Terminal capacities

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 16) mm ² , Main cables
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TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm ² , Main cables
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TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 6, Main cables
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TERMINAL CAPACITY (STRANDED)	1 x 16 mm ² , Main cables
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Switching capacity

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

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

Contacts

MAKING CAPACITY WITHOUT DAMPING (I-PEAK VALUE) 180 x I_e

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) 1

NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) 1

Special purpose ratings

SPECIAL PURPOSE RATING OF CAPACITOR SWITCHING

18 A, 240 V 60 Hz 3phase,
(UL/CSA)
15 kVar, 600 V 60 Hz
3phase, (UL/CSA)
7.5 kVar, 240 V 60 Hz
3phase, (UL/CSA)
15 kVar, 480 V 60 Hz
3phase, (UL/CSA)
18 A, 480 V 60 Hz 3phase,
(UL/CSA)
14.4 A, 600 V 60 Hz
3phase, (UL/CSA)

Design verification

**EQUIPMENT HEAT
DISSIPATION, CURRENT-
DEPENDENT PVID** 2.1 W

**HEAT DISSIPATION
CAPACITY PDISS** 0 W

**HEAT DISSIPATION PER
POLE, CURRENT-
DEPENDENT PVID** 0.7 W

**RATED OPERATIONAL
CURRENT FOR SPECIFIED
HEAT DISSIPATION (IN)** 18 A

**STATIC HEAT
DISSIPATION, NON-
CURRENT-DEPENDENT
PVS** 2.1 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

CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-capacity-contactor-declaration-of-conformity-uk251239en.pdf eaton-capacity-contactor-declaration-of-conformity-eu250756en.pdf
DRAWINGS	eaton-contactors-dilk-dimensions-004.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-dilk-dimensions.eps eaton-contactors-dilk-dimensions-002.eps eaton-contactors-dilk-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.DILK12-11(230V50HZ,240V60HZ)
INSTALLATION INSTRUCTIONS	IL03407038Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-dilk12-25-3d-model.stp eaton-iec-contactors-mcad-drawings-dil-m17-38.dwg eaton-capacitor-contactors-mcad-drawings-dilk12-25.dwg
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 293988
WIRING DIAGRAMS	eaton-contactors-circuit-dilk-wiring-diagram-002.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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