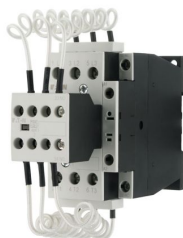


# Specifications



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



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## Product specifications

<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.
<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 CREEPAGE 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.
<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.

## Resources

	<a href="#">SmartWire-DT Catalog</a>
<b>CATALOGS</b>	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
	<a href="#">Product Range Catalog Switching and protecting motors</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">DA-DC-00004814.pdf</a> <a href="#">DA-DC-00004785.pdf</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a>
<b>DRAWINGS</b>	<a href="#">eaton-contactors-dilk-dimensions-002.eps</a> <a href="#">eaton-contactors-dilk-dimensions.eps</a> <a href="#">eaton-contactors-dilk-dimensions-004.eps</a> <a href="#">eaton-contactors-dilk-3d-drawing.eps</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.DILK12-11(230V50HZ,240V60HZ)</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL03407038Z</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">WIN-WIN with push-in technology</a> <a href="#">eaton-dilk12-25-drawing.dwg</a>
<b>MCAD MODEL</b>	<a href="#">DA-CD-dil m17 38</a> <a href="#">eaton-dilk12-25-3d-model.stp</a> <a href="#">DA-CS-dil m17 38</a>
<b>SPECIFICATIONS AND DATASHEETS</b>	<a href="#">Eaton Specification Sheet - 293988</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-contactors-circuit-dilk-wiring-diagram-002.eps</a>

<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>FITTED WITH:</b>	Series resistors
<b>OPERATING FREQUENCY</b>	120 Operations/h
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	60 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	-25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	2.1 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.7 W
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	1
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT</b>	0
<b>NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)</b>	3
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	230 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	240 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	240 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
<b>RATED OPERATIONAL</b>	18 A

<b>CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	
<b>CONNECTION</b>	Screw terminals
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	2.1 W
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX</b>	22 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b>	16 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX</b>	14 ms
<b>APPLICATION</b>	Contactors for power factor correction
<b>PRODUCT CATEGORY</b>	DILK Contactors for capacitors
<b>PROTECTION</b>	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>RATED SWITCH CURRENT</b>	18 A
<b>OPERATING VOLTAGE AT AC, 50 HZ - MIN</b>	230 V
<b>OPERATING VOLTAGE AT AC, 50 HZ - MAX</b>	690 V
<b>OPERATING VOLTAGE AT AC, 60 HZ - MIN</b>	230 V
<b>OPERATING VOLTAGE AT AC, 60 HZ - MAX</b>	690 V
<b>RATED BLIND POWER AT 400 V, 60 HZ</b>	12.5 kVA
<b>ARCING TIME</b>	10 ms
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>VOLTAGE TYPE</b>	AC
<b>DEGREE OF PROTECTION</b>	IP00
<b>DROP-OUT VOLTAGE</b>	AC operated: 0.6 - 0.3 x UC, AC operated
<b>DUTY FACTOR</b>	100 %
<b>EMITTED INTERFERENCE</b>	According to EN 60947-1
<b>INTERFERENCE IMMUNITY</b>	According to EN 60947-1
<b>LIFESPAN, ELECTRICAL</b>	150,000 Operations

<b>MAKING CAPACITY WITHOUT DAMPING (I-PEAK VALUE)</b>	180 x I <sub>e</sub>
<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 BLIND POWER</b>	12.5 kvar
<b>RATED OPERATIONAL CURRENT (I<sub>E</sub>)</b>	18 A at 400 V (three-phase capacitors, open) 18 A at 525 V (three-phase capacitors, open) 18 A at 230 V (three-phase capacitors, open) 18 A at 690 V (three-phase capacitors, open) 16 A at 525 V (three-phase capacitors, enclosed) 16 A at 690 V (three-phase capacitors, enclosed) 16 A at 400 V (three-phase capacitors, enclosed) 16 A at 230 V (three-phase capacitors, enclosed)
<b>SPECIAL PURPOSE RATING OF CAPACITOR SWITCHING</b>	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)
<b>TERMINAL CAPACITY (STRANDED)</b>	1 x 16 mm <sup>2</sup> , Main cables
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)</b>	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (0.75 - 16) mm <sup>2</sup> , Main cables
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (0.75 - 16) mm <sup>2</sup> , Main cables

<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	18 - 6, Main cables
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<b>PROJECT NAME:</b>
<b>PROJECT NUMBER:</b>
<b>PREPARED BY:</b>
<b>DATE:</b>



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