

# Specifications

## Eaton 294074

Eaton Moeller® series DILK Contactor for capacitors, with series resistors, 50 kVAr, 190 V 50 Hz, 220 V 60 Hz



### General specifications

PRODUCT NAME	Eaton Moeller® series DILK capacity contactor
CATALOG NUMBER	294074
MODEL CODE	DILK50-10(190V50HZ,220V60HZ)
EAN	4015082940744
PRODUCT LENGTH/DEPTH	147 mm
PRODUCT HEIGHT	190 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.171 kg
CERTIFICATIONS	CSA C22.2. UL Listed IEC 60947-4-1 EN 60947-4-1 CE IEC/EN 60947 UL UL File No.: E29096 CSA IEC/EN 60947-4-1 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 CSA File No.: 012528 CSA Class No.: 3211-04 UL Category Control No.: NLDX

### Product specifications

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

### Resources

CATALOGS	<a href="#">IEC contactors and starters</a> <a href="#">SmartWire-DT Catalog</a> <a href="#">Product Range Catalog</a> <a href="#">Switching and protecting motors</a> <a href="#">Switching and protecting motors - catalog</a> <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
DECLARATIONS OF CONFORMITY	<a href="#">DA-DC-00004785.pdf</a>

	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.
<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</b>	40 °C

	<a href="#">DA-DC-00004814.pdf</a>
	<a href="#">2100DIM-20 210N017</a>
	<a href="#">2100DIM-16</a>
	<a href="#">eaton-contactors-dilk-dimensions-005.eps</a>
	<a href="#">2110DIM-6</a>
	<a href="#">eaton-contactors-dilk-dimensions-003.eps</a>
<b>DRAWINGS</b>	<a href="#">210N018</a>
	<a href="#">eaton-contactors-dilk-dimensions.eps</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions.eps</a>
	<a href="#">eaton-contactors-mounting-dilm-dimensions-002.eps</a>
	<a href="#">eaton-contactors-dilk-3d-drawing.eps</a>
	<a href="#">2100DRW-298</a>
<b>ECAD MODEL</b>	<a href="#">ETN.DILK50-10(190V50HZ,220V60HZ)</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL03407038Z</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">WIN-WIN with push-in technology</a>
	<a href="#">DA-CS-dil m40 72</a>
	<a href="#">eaton-dilk33-50-3d-model.stp</a>
	<a href="#">eaton-cadenas-drill view-dilk33 50 drill.pra</a>
	<a href="#">eaton-cadenas-path-icpd dilk-assemblies-dilk33 50 asmtpl.prj</a>
<b>MCAD MODEL</b>	<a href="#">DA-CD-dil m40 72</a>
	<a href="#">eaton-dilk33-50-drawing.dwg</a>
	<a href="#">eaton-cadenas-front view-dilk33 50 front.pra</a>
	<a href="#">eaton-cadenas-side view-dilk33 50 side.pra</a>
<b>WIRING DIAGRAMS</b>	<a href="#">eaton-contactors-circuit-dilk-wiring-diagram.eps</a>
	<a href="#">210S073</a>

<b>(ENCLOSED) - MAX</b>	
<b>AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN</b>	25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	21.3 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	7.1 W
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<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>	190 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	190 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	220 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	220 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 CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	72 A
<b>RATED OPERATIONAL POWER AT AC-6B, 220/230 V, 50 HZ</b>	25 kW
<b>RATED OPERATIONAL POWER AT AC-6B, 380/400 V, 50 HZ</b>	50 kW
<b>CONNECTION</b>	Screw terminals
<b>RATED OPERATIONAL POWER AT AC-6B, 525 V, 50 HZ</b>	65 kW
<b>RATED OPERATIONAL POWER AT AC-6B, 690 V, 50 HZ</b>	85 kW

<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	4.1 W
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN</b>	50 ms
<b>SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN</b>	40 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>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>	50 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 Ie
<b>PICK-UP VOLTAGE</b>	0.8 - 1.15 V AC x Uc
<b>POWER CONSUMPTION, PICK-UP, 50 HZ</b>	45 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
<b>POWER CONSUMPTION, PICK-UP, 60 HZ</b>	45 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz

<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1.5 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
<b>POWER CONSUMPTION, SEALING, 60 HZ</b>	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1.5 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
<b>RATED BLIND POWER</b>	50 kvar
<b>RATED OPERATIONAL CURRENT (IE)</b>	72 A at 230 V (three-phase capacitors, open) 72 A at 690 V (three-phase capacitors, open) 65 A at 230 V (three-phase capacitors, enclosed) 65 A at 400 V (three-phase capacitors, enclosed) 65 A at 525 V (three-phase capacitors, enclosed) 72 A at 400 V (three-phase capacitors, open) 72 A at 525 V (three-phase capacitors, open) 65 A at 690 V (three-phase capacitors, enclosed)
<b>SPECIAL PURPOSE RATING OF CAPACITOR SWITCHING</b>	72.1 A, 480 V 60 Hz 3phase, (UL/CSA) 60 kVar, 480 V 60 Hz 3phase, (UL/CSA) 75 kVar, 600 V 60 Hz 3phase, (UL/CSA) 72.1 A, 240 V 60 Hz 3phase, (UL/CSA) 30 kVar, 240 V 60 Hz 3phase, (UL/CSA) 72.1 A, 600 V 60 Hz 3phase, (UL/CSA)
<b>TERMINAL CAPACITY (STRANDED)</b>	1 x (16 - 50) 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 (COPPER BAND)</b>	1 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
<b>TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)</b>	1 x (2.5 - 35) mm <sup>2</sup> , Main cables
<b>TERMINAL CAPACITY (SOLID)</b>	1 x (2.5 - 16) mm <sup>2</sup> , Main cables
<b>TERMINAL CAPACITY (SOLID/STRANDED AWG)</b>	12 - 2, Main Cables

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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