

Contactor for capacitors, with series resistors, 12.5 kVAr, 230 V 50 Hz, 240 V 60 Hz



Part no. **DILK12-11(230V50HZ,240V60HZ)**  
**293988**

<b>General specifications</b>	
Product name	Eaton Moeller® series DILK capacity contactor
Part no.	DILK12-11(230V50HZ,240V60HZ)
EAN	4015082939885
Product Length/Depth	138 millimetre
Product height	135 millimetre
Product width	45 millimetre
Product weight	0.51 kilogram
Certifications	CE IEC/EN 60947 CSA Class No.: 3211-04 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA File No.: 012528 CSA UL File No.: E29096 UL
Product Tradename	DILK
Product Type	Capacity contactor
Product Sub Type	None
Catalog Notes	Due to their special contacts, the contactors for capacitors are weld-resistant for capacitors with inrush current peaks up to 180 × I# In the case of group compensation multi-stage capacitor banks are connected to the mains, as required. Transient currents of up to 180 × Ie could flow between the capacitors.
<b>Features &amp; Functions</b>	
Fitted with:	Series resistors
<b>General information</b>	
Application	Contactors for power factor correction
Degree of protection	IP00
Lifespan, electrical	150,000 Operations
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
<b>Climatic environmental conditions</b>	
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
<b>Electro magnetic compatibility</b>	
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
<b>Terminal capacities</b>	
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
<b>Electrical rating</b>	
Rated operational current (Ie)	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>Switching capacity</b>		
Switching capacity (auxiliary contacts, general use)		10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)		A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
<b>Magnet system</b>		
Arcing time		10 ms
Drop-out voltage		AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor		100 %
Pick-up voltage		0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz		58 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz		71 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz		2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 7.6 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz		9.3 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, 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
Rated control supply voltage (Us) at DC - min		0 V
Rated control supply voltage (Us) at DC - max		0 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
<b>Contacts</b>		
Making capacity without damping (I-peak value)		180 x Ie
Number of auxiliary contacts (normally closed contacts)		1
Number of auxiliary contacts (normally open contacts)		1
<b>Special purpose ratings</b>		
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)
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		2.1 W
Heat dissipation capacity Pdis		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.

## Technical data ETIM 8.0

Low-voltage industrial components (EG000017) / Capacitor contactor (EC001079)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Capacitor contactor (ecl@ss10.0.1-27-37-10-06 [AGZ569015])		
Rated control supply voltage $U_s$ at AC 50HZ	V	230 - 230
Rated control supply voltage $U_s$ at AC 60HZ	V	240 - 240
Rated control supply voltage $U_s$ at DC	V	0 - 0
Voltage type for actuating		AC
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		1
Type of electrical connection of main circuit		Screw connection
Number of normally open contacts as main contact		3
Number of normally closed contacts as main contact		0
Rated blind power at 400 V, 50 Hz	kvar	12.5