Specifications

Photo is representative

Eaton 293984

Eaton Moeller® series DILK Contactor for capacitors, with series resistors, 12.5 kVAr, 42 V 50 Hz, 48 V 60 Hz

General specifications	
PRODUCT NAME	Eaton Moeller® series DILK capacity contactor
CATALOG NUMBER	293984
MODEL CODE	DILK12-11(42V50HZ,48V60HZ)
EAN	4015082939847
PRODUCT LENGTH/DEPTH	138 mm
PRODUCT HEIGHT	135 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.51 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	CSA UL Category Control No.: NLDX CSA File No.: 012528 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL File No.: E29096 CSA Class No.: 3211-04 IEC/EN 60947-4-1 IEC/EN 60947 UL CE
GLOBAL CATALOG	293984

Powering Business Worldwide

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 information in the instruction leaflet (IL) is observed.
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.

Resources

CATALOGS	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf Product Range Catalog Switching and protecting motors SmartWire-DT Catalog
DECLARATIONS OF CONFORMITY	DA-DC-00004785.pdf DA-DC-00004814.pdf
DRAWINGS	eaton-contactors-dilk-dimensions-004.eps eaton-contactors-dilk-dimensions.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-dilk-dimensions-002.eps eaton-contactors-dilk-3d-drawing.eps
ECAD MODEL	ETN.DILK12-11(42V50HZ,48V60HZ).edz
INSTALLATION INSTRUCTIONS	IL03407038Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-dilk12-25-3d-model.stp DA-CS-dil_m17_38 eaton-dilk12-25-drawing.dwg DA-CD-dil_m17_38
WIRING DIAGRAMS	eaton-contactors-circuit-dilk-wiring-diagram-002.eps

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.
FITTED WITH:	Series resistors
OPERATING FREQUENCY	120 Operations/h
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-25 °C
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
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY CLOSED) AS	0

MAIN CONTACT	
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	18 A
RATED OPERATIONAL POWER AT AC-6B, 220/230 V, 50 HZ	7.5 kVA
RATED OPERATIONAL POWER AT AC-6B, 380/400 V, 50 HZ	12.5 kVA
CONNECTION	Screw terminals
RATED OPERATIONAL POWER AT AC-6B, 525 V, 50 HZ	16.7 kVA
RATED OPERATIONAL POWER AT AC-6B, 690 V, 50 HZ	20 kVA
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	2.1 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	22 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	16 ms

SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
APPLICATION	Contactors for power factor correction
PRODUCT CATEGORY	DILK Contactors for capacitors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)	0
RATED SWITCH CURRENT	18 A
OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V
RATED BLIND POWER AT 400 V, 60 HZ	12.5 kVA
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, ELECTRICAL	150,000 Operations
MAKING CAPACITY WITHOUT DAMPING (I-PEAK VALUE)	180 x Ie
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	7.6 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 9.3 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
RATED BLIND POWER	12.5 kvar
RATED OPERATIONAL CURRENT (IE)	18 A at 230 V (three-phase capacitors, open) 16 A at 230 V (three-phase capacitors, enclosed) 18 A at 525 V (three-phase capacitors, open) 18 A at 400 V (three-phase capacitors, open) 18 A at 690 V (three-phase capacitors, open) 16 A at 690 V (three-phase capacitors, enclosed) 16 A at 525 V (three-phase capacitors, enclosed) 16 A at 400 V (three-phase capacitors, enclosed)
SPECIAL PURPOSE RATING OF CAPACITOR SWITCHING	14.4 A, 600 V 60 Hz 3phase, (UL/CSA) 15 kVar, 480 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) 18 A, 480 V 60 Hz 3phase, (UL/CSA) 18 A, 240 V 60 Hz 3phase, (UL/CSA)
TERMINAL CAPACITY (STRANDED)	1 x 16 mm^2, Main cables
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
SWITCHING CAPACITY	P300, DC operated

(AUXILIARY CONTACTS, PILOT DUTY)	(UL/CSA) A600, AC operated (UL/CSA)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 16) mm^2, Main cables
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm^2, Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 6, Main cables

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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