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

Climatic environmental conditions

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

Contacts

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
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
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0

Design verification

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.
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.

Electrical rating

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)

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.
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

Electro magnetic compatibility

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

Features & functions

FITTED WITH:	Series resistors

General information

APPLICATION	Contactors for power factor correction
CONNECTION	Screw terminals
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

Magnet system

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)	230 V

AT AC, 50 HZ - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	240 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	240 V
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

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)

Switching capacity

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)

Terminal capacities

TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm², Main cables
TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 16) mm², Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 6, Main cables

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.eps eaton-contactors-dilk-dimensions.eps eaton-contactors-dilk-dimensions-002.eps eaton-contactors-mounting-dilm-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-capacitor-contactors-mcad-drawings-dilk12-25.dwg eaton-dilk12-25-3d-model.stp
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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