Eaton 277766

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 18.5 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals DILM40(230V50HZ,240V60HZ)

PRODUCT NAMEEaton Moeller® series DILM contactorCATALOG NUMBER277766PRODUCT LENGTH/DEPTH132.1 mmPRODUCT HEIGHT115 mmPRODUCT WIDTH55 mmPRODUCT WEIGHT0.872 kgCOMPLIANCESCE MarkedKarsen State CSA Std. C22.2 No. 14-05 UL 508LEC 60947-4-1 CSA Std. C22.2 No. 14-05 UL 508CERTIFICATIONSEEC 60947-4-1 CSA Certified UL Listed VDE 0660 CSA EC/EN 60947-4-1 UL 60947-4-1CERTIFICATIONSEC/EN 60947 UL 60947-4-1 UL File No.: 629096 CSA File No.: 012528 UL UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04CATALOG NOTESContacts according to EN S0012		
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	CATALOG NOTES	-



AMPERAGE RATING	170A
HP RATING - MAX	3, 7.5/ 10, 15, 30, 40 hp (1/3PH @120, 240/ 208, 240, 480, 600 V)
NUMBER OF POLES	Three-pole
ТҮРЕ	Full voltage non-reversing contactor
VOLTAGE RATING	400 V
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.

CHARACTERISTIC CURVE	<u>eaton-contactors-switch-</u> <u>dilm-characteristic-</u> <u>curve.eps</u>
	<u>eaton-contactors-switch-</u> <u>dilm-characteristic-curve-</u> <u>002.eps</u>
	<u>IL03407033Z</u>
	<u>eaton-contactors-contact-</u> <u>dilm-wiring-diagram-</u> <u>003.eps</u>
	<u>eaton-contactors-dilm-</u> <u>dimensions-002.eps</u>

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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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	5000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction

	motors: starting, plugging, reversing, inching
CONNECTION	Screw terminals
FRAME SIZE	FS3
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
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	3 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	40 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	112 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	45 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	55 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	125 A

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	6.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	2.2 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
TERMINALS	Spring loaded terminals
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard
	screwdriver
VOLTAGE TYPE	screwdriver AC
VOLTAGE TYPE DEGREE OF PROTECTION	
	AC
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY	AC IP00
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CAPACITY AT 500 V	
RATED BREAKING CAPACITY AT 660/690 V	250 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
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
COIL VOLTAGE	230-240 Vac, 50/60 Hz
CONTINUOUS AMPERE RATING	63 A
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
OPERATION	Non-reversing
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
SCREW SIZE	M6, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	16 VA, Dual-frequency coil in a cold state and 1.0 x

Us, at 50 Hz	
4.1 W, Dual-freque in a cold state and Us, at 50 Hz	-
4.1 W, Dual-freque in a cold state and Us, at 60 Hz SEALING, 60 HZ 19 VA, Dual-freque in a cold state and Us, at 60 Hz	1.0 x ency coil
TERMINAL CAPACITY 1 x (16 - 50) mm², 1 cables (STRANDED) 2 x (16 - 35) mm², 1 cables	
TERMINAL CAPACITY 2 x (6 x 9 x 0.8) mm (COPPER BAND) (Number of segmewidth x thickness), cables	ents x
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)2 x (0.75 - 2.5) mm Control circuit cab 2 x (0.75 - 2.5) mm cables 1 x (0.75 - 2.5) mm Control circuit cab 1 x (0.75 - 35) mm cables	les ² , Main ² , les
5 g, N/C auxiliary of Mechanical, accord IEC/EN 60068-2-27 tabletop-mounted sinusoidal shock 1 10 g, N/O main con Mechanical, accord IEC/EN 60068-2-27 tabletop-mounted sinusoidal shock 1 	ding to 7 when 9 Half- 0 ms ntact, ding to 7 when 9 Half- 0 ms contact, ding to 7 when 9 Half- 0 ms contact, ding to 7, Half- 0 ms contact, ding to 7, Half-
IEC/EN 60068-2-27 sinusoidal shock 1 10 g, N/O main co Mechanical, accor IEC/EN 60068-2-27 sinusoidal shock 1	ntact, ding to 7, Half-

(SOLID)	cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 16) mm ² , Main cables 1 x (0.75 - 4) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 14 - 1, double 14 - 2, Main cables 18 - 14, Control circuit cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	63 A, Maximum motor rating (UL/CSA)
POWER CONSUMPTION	18 kW
TIGHTENING TORQUE	1.2 Nm, Screw terminals,Control circuit cables3.3 Nm, Screw terminals,Main cables
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	560 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	60 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	25 A
RATED OPERATIONAL	18 A

CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	14 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	50 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	45 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	50 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	40 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	13.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	18.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	24 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	9 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	9.5 kW
RATED OPERATIONAL	

RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	12 kW
RATED OPERATIONAL POWER (NEMA)	22 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	1.9 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	4.1 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	14 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	12 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	13 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 250 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT	250 A, max. CB, SCCR (UL/CSA)

600 V)	250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	125 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	80 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	63 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	50 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	79 A (480V 60Hz 3phase, 277V 60Hz 1phase) 79 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	10 HP, 240 V 60 Hz 3-ph, (UL/CSA) 25 HP, 480 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA) 28 A, 240 V 60 Hz 3-ph, (UL/CSA) 30 HP, 600 V 60 Hz 3-ph, (UL/CSA) 32 A, 600 V 60 Hz 3-ph, (UL/CSA) 34 A, 480 V 60 Hz 3-ph, (UL/CSA) 25.3 A, 200 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	79 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 79 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	74 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 74 A, 600 V 60 Hz 3phase,

	347 V 60 Hz 1phase, (UL/CSA)
OPERATING TEMPERATURE	-25° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	60 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	57 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	50 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	25 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	28 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	23 kW
ACTUATING VOLTAGE	230 V 50 Hz, 240 V 60 Hz
ALTITUDE	Max. 2000 m
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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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