# Specifications

#### Photo is representative

## Eaton 239478

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 45 kW, 190 V 50 Hz, 220 V 60 Hz, AC operation, Screw terminals

General specifications	
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	239478
MODEL CODE	DILM95(190V50HZ,220V60HZ)
EAN	4015082394783
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	2.18 kg
CERTIFICATIONS	CSA File No.: 012528 IEC/EN 60947-4-1 UL File No.: E29096 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211- 04 UL CE UL 60947-4-1 CSA VDE 0660
CATALOG NOTES	Contacts according to EN 50012
GLOBAL CATALOG	239478



### Product specifications

AMPERAGE RATING	170A		
HP RATING - MAX	7.5, 15/ 30, 40, 75, 100 hp (1/3PH @120, 240/208, 240, 480, 600 V)		CATALOGS
NUMBER OF POLES	Three-pole	_	
ТҮРЕ	Full voltage non-reversing medium 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.		CHARACTER
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	-	DECLARATIO
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.		CONFORMIT
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.		DRAWINGS
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.	-	ECAD MODE
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.		INSTALLATIO INSTRUCTIO

### Resources

Juices	
	SmartWire-DT Catalog
	eaton-product-overview-
	for-machinery-catalogue-
LOGS	ca08103003zen-en-us.pdf
	Product Range Catalog
	Switching and protecting
	motors
	eaton-contactors-switch-
	dilm-characteristic-curve-
	<u>002.eps</u>
	eaton-contactors-
	<u>component-dilm-</u>
	characteristic-curve-
ACTERISTIC CURVE	<u>003.eps</u>
	eaton-contactors-switch-
	dilm-characteristic-
	<u>curve.eps</u>
	eaton-contactors-short-
	time-loading-dilm-
	<u>characteristic-curve-</u>
	<u>002.eps</u>
ARATIONS OF	DA-DC-00004818.pdf
ODMITY	
ORMITY	DA-DC-00004781.pdf
	DA-DC-00004781.pdf eaton-contactors-dilm-
	eaton-contactors-dilm-
	eaton-contactors-dilm- dimensions-003.eps
URMITY	eaton-contactors-dilm- dimensions-003.eps eaton-contactors-
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	eaton-contactors-dilm- dimensions-003.eps eaton-contactors- mounting-dilm- dimensions.eps eaton-contactors- mounting-dilm- dimensions-002.eps eaton-contactors-dilm- dimensions-011.eps eaton-contactors-dilm-3d- drawing-013.eps
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	eaton-contactors-dilm- dimensions-003.epseaton-contactors- mounting-dilm- dimensions.epseaton-contactors- mounting-dilm- dimensions-002.epseaton-contactors-dilm- dimensions-011.epseaton-contactors-dilm- dimensions-013.epseaton-general-ie-ready- dilm-contactor-
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/INGS MODEL	eaton-contactors-dilm- dimensions-003.epseaton-contactors- mounting-dilm- dimensions.epseaton-contactors- mounting-dilm- dimensions-002.epseaton-contactors-dilm- dimensions-011.epseaton-contactors-dilm- dimensions-011.epseaton-contactors-dilm- dimensions-013.epseaton-general-ie-ready- dilm-contactor- standards.epseaton-contactors-dilm-3d- drawing.epsETN.239478.edz

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	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	Is 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	3600 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
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-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or

INSTALLATION VIDEOS	<u>WIN-WIN with push-in</u> <u>technology</u>
MCAD MODEL	<u>DA-CS-dil m80 170</u> <u>DA-CD-dil_m80_170</u>
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 239478
SYSTEM OVERVIEW	<u>eaton-contactors-dilm-</u> <u>contactor-system-</u> <u>overview.eps</u>
WIRING DIAGRAMS	<u>eaton-contactors-contact-</u> <u>dilm-wiring-diagram-</u> <u>003.eps</u>

	slightly inductive loads, resistance furnaces
CONNECTION	Screw terminals
FRAME SIZE	FS4
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	7.5 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	30 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	40 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	75 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	100 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	250 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	100 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	115 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	275 A

EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	12.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	4.2 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	Screw terminals
ARCING TIME	15 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
OPERATING TEMPERATURE - MAX	60 °C
OPERATING	-25 °C
TEMPERATURE - MIN	
	950 A

RATED BREAKING CAPACITY AT 500 V	950 A
RATED BREAKING CAPACITY AT 660/690 V	800 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	190 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	190 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	220 V
COIL VOLTAGE	190-220 Vac, 50/60 Hz
CONTINUOUS AMPERE RATING	95 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	310 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SAFE ISOLATION	690 V AC, Between coil and contacts, According to EN 61140 690 V AC, Between the contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	345 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
RESIDUAL CURRENT	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
SCREW SIZE	5 mm AF, Hexagon socket- head spanner, Terminal

	screw, Main cables M10, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (STRANDED)	2 x (16 - 50) mm², Main cables 1 x (16 - 70) mm², Main cables
TERMINAL CAPACITY (COPPER BAND)	2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (10 - 70) mm <sup>2</sup> , Main cables 2 x (10 - 50) mm <sup>2</sup> , Main cables 1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms

	sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half- sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 4) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 83/0, double 82/0, Main cables 18 - 14, Control circuit cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	125 A, Maximum motor rating (UL/CSA)
POWER CONSUMPTION	45 kW
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 14 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)	1330 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	130 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	95 A
RATED OPERATIONAL	80 A

CURRENT (IE) AT AC-3, 660 V, 690 V	
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	37 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	110 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	70 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	110 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	95 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	45 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	57 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	16 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	17 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	26 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	30 kW

RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	36 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	35 kW
RATED OPERATIONAL POWER (NEMA)	55 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
<b>RESISTANCE PER POLE</b>	0.6 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	5.8 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	24 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	20 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	600 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 600 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	65 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 300/300 A, Class J, max.

	Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	350 A, max. CB, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	250 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	160 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	160 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	100 A (600V 60Hz 3phase, 347V 60Hz 1phase) 100 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	95 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 570 A, LRA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR	75 HP, 600 V 60 Hz 3-ph, (UL/CSA) 62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 80 A, 240 V 60 Hz 3-ph, (UL/CSA) 77 A, 480 V 60 Hz 3-ph,
CONTROL	(UL/CSA) 20 HP, 200 V 60 Hz 3-ph, (UL/CSA) 30 HP, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 480 V 60 Hz 3-ph, (UL/CSA) 77 A, 600 V 60 Hz 3-ph, (UL/CSA)

RATING OF REFRIGERATION CONTROL (CSA ONLY)	3phase; (CSA) 90 A, FLA 480 V 60 Hz 3phase; (CSA) 420 A, LRA 600 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
OPERATING TEMPERATURE	-25° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	130 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	125 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	110 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	60 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	70 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	75 kW
ACTUATING VOLTAGE	190 V 50 Hz, 220 V 60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT	690 V
AC, 50 HZ - MAX	
AC, 50 HZ - MAX OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V

#### **PROJECT NAME:**

**PROJECT NUMBER:** 

PREPARED BY:

DATE:



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