

Eaton 208218

Eaton Moeller® series DILM Contactor, 380 V 400 V 355 kW, 2 N/O, 2 NC, RA 110: 48 - 110 V 40 - 60 Hz/48 - 110 V DC, AC and DC operation, Screw connection

PRODUCT NAME	Eaton Moeller® series DILM Contactor
CATALOG NUMBER	208218
PRODUCT LENGTH/DEPTH	232 mm
PRODUCT HEIGHT	296 mm
PRODUCT WIDTH	250 mm
PRODUCT WEIGHT	16.209 kg
CERTIFICATIONS	CE VDE 0660 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 CSA CSA Class No.: 3211-04 UL 60947-4-1 UL Category Control No.: NLDX IEC/EN 60947-4-1 UL File No.: E29096 UL CSA File No.: 012528
CATALOG NOTES	<ul style="list-style-type: none">• Contacts according to EN 50012• Also tested according to AC-3e up to 690 V.• Also suitable for motors with efficiency class IE3.• Conventional thermal current I_{th} of main contacts (1-pole, open) at 60°



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ACCESSORIES	Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
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.

CHARACTERISTIC CURVE	eaton-contactors-component-dilm-characteristic-curve.eps
	eaton-contactors-component-dilm-characteristic-curve-002.eps
	IL03407023Z2021_09.pdf
	eaton-contactors-contact-dilm-wiring-diagram-004.eps
	eaton-contactors-dilm-dimensions-005.eps
	eaton-contactors-dilm-3d-drawing-006.eps
	eaton-contactors-mounting-dilm-3d-drawing-002.eps

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.
FITTED WITH:	Suppressor circuit in actuating electronics
OPERATING FREQUENCY	200 Operations/h 1000 mechanical Operations/h (AC operated) 1000 mechanical Operations/h (DC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
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
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-40 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	200 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	250 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	500 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	600 HP
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	888 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1-POLE, OPEN)	2125 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	13.67 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated

from front (EN 50274)

ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Rail connection
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
VOLTAGE TYPE	AC/DC
DEGREE OF PROTECTION	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED BREAKING CAPACITY AT 1000 V	4350 A
RATED BREAKING CAPACITY AT 220/230 V	6500 A
RATED BREAKING CAPACITY AT 380/400 V	6500 A
RATED BREAKING CAPACITY AT 500 V	6500 A
RATED BREAKING CAPACITY AT 660/690 V	6500 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	48 V

DROP-OUT VOLTAGE	0.2 x US max - 0.6 x US min, DC operated AC operated: 0.2 x US max - 0.6 x US min, AC operated
OVERVOLTAGE CATEGORY	III
BEHAVIOR IN MARGINAL AND TRANSITIONAL CONDITIONS	<p>Sealing - Voltage drops (0.2 - 0.6 x Uc min ≤ 12 ms: Time is bridged successfully</p> <p>Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor</p> <p>Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty</p> <p>Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on</p> <p>Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor</p> <p>Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on</p> <p>Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully</p> <p>Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on</p>
DUTY FACTOR	100 %
ELECTROMAGNETIC COMPATIBILITY	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
LIFESPAN, MECHANICAL	5,000,000 Operations (AC operated) 5,000,000 Operations (DC operated)
PICK-UP VOLTAGE	0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us
POWER CONSUMPTION,	700 W, Pull-in power, Coil

PICK-UP, 50 HZ	in a cold state and 1.0 x Us 800 VA, Pull-in power, Coil in a cold state and 1.0 x Us
SAFE ISOLATION	1000 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	700 W, Pull-in power, Coil in a cold state and 1.0 x Us 800 VA, Pull-in power, Coil in a cold state and 1.0 x Us
SCREW SIZE	M10, Terminal screw, Main connections M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	10.3 W, Coil in a cold state and 1.0 x Us 26.4 VA, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	10.3 W, Coil in a cold state and 1.0 x Us 26.4 VA, Coil in a cold state and 1.0 x Us
RESISTANCE	500 mΩ (Admissible transitional contact resistance - of the external control circuit device when actuating A11)
RATED OPERATIONAL CURRENT (IE)	463 A at up to 525 V (Individual compensation, three-phase capacitors, open) 265 A at 690 V (Individual compensation, three-phase capacitors, open)
INRUSH CURRENT	Max. 30 x Ie (peak)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
LIFESPAN, ELECTRICAL	100,000 Operations (at Condensor operation)
TERMINAL CAPACITY (COPPER BAND)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ² , Control circuit cables
SHOCK RESISTANCE	10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 8 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, Half- sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2/0 - 500 MCM, Main cables 18 - 14, Control circuit cables
SIGNAL LEVEL	5 V - 15 V, PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2), Magnet systems
TERMINAL CAPACITY (BUSBAR)	50 mm width, Main connection
TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)	50 - 240 mm ²
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	1041 A, Maximum motor rating (UL/CSA)
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	70 - 240 mm ²
POWER CONSUMPTION	Control transformer with uk ≤ 7%
TIGHTENING TORQUE	24 Nm, Main cable connection screw/bolt 1.2 Nm, Screw terminals, Control circuit cables
WIDTH ACROSS FLATS	16 mm
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	100 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	48 V

RATED INSULATION VOLTAGE (UI)	1000 V
RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)	7800 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V	435 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	650 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	650 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	650 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	650 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	650 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V	348 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	512 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	512 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	512 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	512 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	512 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	650 A
RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ	600 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	225 kW

RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	355 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	390 kW
RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ	509 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	161 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	176 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	280 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	307 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	326 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	370 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	494 kW
RATED OPERATIONAL POWER (NEMA)	373 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RESISTANCE PER POLE	0.032 mΩ
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	6.5 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	70 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	110 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	2000 A, max. Fuse, SCCR (UL/CSA)

	30 kA, SCCR (UL/CSA) 1200 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, CB, SCCR (UL/CSA) 85 kA, Fuse, SCCR (UL/CSA)
	1200 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	85 kA, Fuse, SCCR (UL/CSA) 2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, CB, SCCR (UL/CSA) 1200 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	1000 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	1000 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V	500 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	630 A gG/gL
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	4350 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 725 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 725 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 4350 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)

CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	1041 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	931 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	850 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	420 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	470 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	630 kW
ACTUATING VOLTAGE	RA 110: 48 - 110 V 40 - 60 Hz/48 - 110 V DC
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	48 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	110 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	48 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	110 V

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

:



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