

Specifications



Eaton 109923

Eaton Moeller® series DILMP Contactor, 4 pole, 200 A, RAC 120: 100 - 120 V 50/60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor
CATALOG NUMBER	109923
MODEL CODE	DILMP200(RAC120)
EAN	4015081094899
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	122 mm
PRODUCT WEIGHT	2.73 kg
CERTIFICATIONS	CSA UL CE CSA Class No.: 2411-03, 3211-04 UL Category Control No.: NLDX UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947 UL 60947-4-1 VDE 0660 CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1
CATALOG NOTES	Contacts according to EN 50012

Ambient conditions, mechanical

SHOCK RESISTANCE

5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
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

Communication

CONNECTION TO SMARTWIRE-DT

No

Climatic environmental conditions

ALTITUDE Max. 2000 m

AMBIENT OPERATING TEMPERATURE - MAX 60 °C

AMBIENT STORAGE TEMPERATURE - MAX 80 °C

AMBIENT OPERATING TEMPERATURE - MIN -25 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX 40 °C

AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN -25 °C

AMBIENT STORAGE TEMPERATURE - MIN -40 °C

CLIMATIC PROOFING Damp heat, constant, to IEC 60068-2-3
Damp heat, cyclic, to IEC 60068-2-30

Contacts

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT) 4

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

Conventional thermal current I_{th}

**CONVENTIONAL
THERMAL CURRENT I_{TH}
(1-POLE, ENCLOSED)** 464 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
(3-POLE, ENCLOSED)** 160 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 55°C (3-POLE, OPEN)** 180 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 60°C (3-POLE, OPEN)** 172 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
OF MAIN CONTACTS (1-
POLE, OPEN)** 516 A

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

Does not apply, since the

AGAINST ELECTRIC SHOCK	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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	57 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	19 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	200 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	2.3 W

Electrical rating

RATED BREAKING CAPACITY AT 220/230 V	1150 A
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RATED BREAKING CAPACITY AT 380/400 V	1150 A
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RATED BREAKING CAPACITY AT 500 V	1150 A
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RATED BREAKING CAPACITY AT 660/690 V	800 A
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RATED INSULATION VOLTAGE (UI)	690 V
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RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	1800 A
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RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	200 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	115 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	115 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	115 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	115 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	93 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	200 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	200 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	200 A
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RATED OPERATIONAL POWER AT AC-1, 220/230 V, 50 HZ	72 kW
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RATED OPERATIONAL POWER AT AC-1, 240 V, 50 HZ	79 kW
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RATED OPERATIONAL POWER AT AC-1, 380/400 V, 50 HZ	125 kW
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Electro magnetic compatibility

INTERFERENCE IMMUNITY	According to EN 60947-1
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RATED OPERATIONAL POWER AT AC-1, 415 V, 50 HZ	137 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ	145 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ	165 kW
RATED OPERATIONAL POWER AT AC-1, 690 V, 50 HZ	217 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	40 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	70 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	75 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	85 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	90 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

Features & functions

FITTED WITH:	Suppressor circuit in actuating electronics
NUMBER OF POLES	Four-pole

General information

APPLICATION	Contactors for 4 pole electric consumers
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP00
LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated) 10,000,000 Operations (AC operated)
OPERATING FREQUENCY	3600 mechanical Operations/h (AC operated) 3600 mechanical Operations/h (DC operated)
OVERVOLTAGE CATEGORY	III

POLLUTION DEGREE	3
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
RESIDUAL CURRENT	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
RESISTANCE PER POLE	0.6 mΩ
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
VOLTAGE TYPE	AC

Magnet system

DROP-OUT VOLTAGE	AC operated: 0.6 - 0.25 x UC, AC operated
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.8 - 1.15 V AC/DC x Us 0.8 - 1.15 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	180 VA, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, PICK-UP, 60 HZ	150 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 180 VA, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 50 HZ	2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	2.3 W, Dual-frequency coil in a cold state and 1.0 x Us 3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	120 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	100 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	120 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	100 V
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	33 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	28 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	41 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	35 ms

Motor rating

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE 10 HP

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE 40 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE 30 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE 60 HP

ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE 125 HP

ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE 125 HP

Safety

SAFE ISOLATION

440 V AC, Between the contacts, According to EN 61140
440 V AC, Between coil and contacts, According to EN 61140

Short-circuit rating

SHORT-CIRCUIT CURRENT RATING (BASIC RATING)

10 kA, 600 A max. fuse, SCCR (UL/CSA)
10 kA, 600 A max. CB, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)

100 kA, 300 A CLASS J max. fuse, SCCR (UL/CSA)
30 kA, 600 A max. fuse, SCCR (UL/CSA)
65 kA, 250 A max. CB, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)

100 kA, 300 A CLASS J max. fuse, SCCR (UL/CSA)
30 kA, 600 A max. fuse, SCCR (UL/CSA)

SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V

250 A gG/gL

SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V

200 A gG/gL

SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V

250 A gG/gL

SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V

200 A gG/gL

Special purpose ratings

SPECIAL PURPOSE RATING OF ELEVATOR CONTROL

30 HP, 200 V 60 Hz 3-ph,
(UL/CSA)
92 A, 200 V 60 Hz 3-ph,
(UL/CSA)
99 A, 600 V 60 Hz 3-ph,
(UL/CSA)
104 A, 240 V 60 Hz 3-ph,
(UL/CSA)
96 A, 480 V 60 Hz 3-ph,
(UL/CSA)
40 HP, 240 V 60 Hz 3-ph,
(UL/CSA)
75 HP, 480 V 60 Hz 3-ph,
(UL/CSA)
100 HP, 600 V 60 Hz 3-ph,
(UL/CSA)

SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)

90 A, FLA 480 V 60 Hz
3phase; (CSA)
540 A, LRA 480 V 60 Hz
3phase; (CSA)
540 A, LRA 600 V 60 Hz
3phase; (CSA)
90 A, FLA 600 V 60 Hz
3phase; (CSA)

SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING

160 A, 480 V 60 Hz 3phase,
277 V 60 Hz 1phase,
(UL/CSA)
160 A, 600 V 60 Hz 3phase,
347 V 60 Hz 1phase,
(UL/CSA)

SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS

160 A, 600 V 60 Hz 3phase,
347 V 60 Hz 1phase,
(UL/CSA)
160 A, 480 V 60 Hz 3phase,
277 V 60 Hz 1phase,
(UL/CSA)

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS

160 A (600V 60Hz 3phase,
347V 60Hz 1phase)
160 A (480V 60Hz 3phase,
277V 60Hz 1phase)

Switching capacity

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)

180 A, Maximum motor
rating (UL/CSA)

Terminal capacities

SCREW SIZE	M10, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables
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
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	15 mm
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)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 4) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (STRANDED)	1 x (16 - 120) mm ² , Main cables 2 x (16 - 95) mm ² , Main cables
TIGHTENING TORQUE	14 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	8 - 3/0, Main cables 18 - 14, Control circuit cables

Resources

CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CHARACTERISTIC CURVE	eaton-contactors-characteristic-curve-2110dia-3.eps
DECLARATIONS OF CONFORMITY	eaton-4-pole-contactor-declaration-of-conformity-uk251253en.pdf eaton-4-pole-contactor-declaration-of-conformity-eu250770en.pdf
DRAWINGS	eaton-contactors-dilmp-dimensions-004.eps eaton-contactors-dilmp-dimensions-003.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions.eps
ECAD MODEL	ETN.109923.edz
INSTALLATION INSTRUCTIONS	IL03407049Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-iec-contactors-mcad-drawings-dil-mp125-200.dwg DA-CS-dil_mp125_200
WIRING DIAGRAMS	eaton-contactors-contact-dilem-wiring-diagram.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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