

Specifications



Eaton 118913

Eaton Moeller® series DILMP Contactor, 4 pole, 32 A, 1 NC, 24 V DC, DC operation

General specifications

PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor
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CATALOG NUMBER	118913
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MODEL CODE	DILMP32-01(RDC24)
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EAN	4015081170401
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PRODUCT LENGTH/DEPTH	97 mm
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PRODUCT HEIGHT	85 mm
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PRODUCT WIDTH	58 mm
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PRODUCT WEIGHT	0.596 kg
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CERTIFICATIONS	CSA Class No.: 2411-03, 3211-04 UL File No.: E29096 VDE 0660 UL CSA CSA File No.: 012528 CE CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947-4-1 UL Category Control No.: NLDX IEC/EN 60947 UL 60947-4-1
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CATALOG NOTES	Also tested according to AC-3e.
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Ambient conditions, mechanical

SHOCK RESISTANCE

7 g, N/O auxiliary 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, Half-sinusoidal shock 10 ms

Communication

CONNECTION TO SMARTWIRE-DT

Yes
In conjunction with DIL-SWD SmartWire DT contactor module

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

Contacts

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT) 4

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) 1

NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) 0

NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) 1

NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT 0

Conventional thermal current I_{th}

**CONVENTIONAL
THERMAL CURRENT I_{TH}
(1-POLE, ENCLOSED)** 76 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
(3-POLE, ENCLOSED)** 27 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 55°C (3-POLE, OPEN)** 29 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 60°C (3-POLE, OPEN)** 28 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
OF MAIN CONTACTS (1-
POLE, OPEN)** 84 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	6.6 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.2 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.9 W

Electrical rating

RATED BREAKING CAPACITY AT 220/230 V	180 A
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RATED BREAKING CAPACITY AT 380/400 V	180 A
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RATED BREAKING CAPACITY AT 500 V	180 A
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RATED BREAKING CAPACITY AT 660/690 V	120 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)	238 A
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RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	32 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	18 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	18 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	18 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	18 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	12 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	32 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	32 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	32 A
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RATED OPERATIONAL POWER AT AC-1, 220/230 V, 50 HZ	12 kW
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RATED OPERATIONAL POWER AT AC-1, 240 V, 50 HZ	13 kW
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RATED OPERATIONAL POWER AT AC-1, 380/400 V, 50 HZ	20 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	22 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ	23 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ	26 kW
RATED OPERATIONAL POWER AT AC-1, 690 V, 50 HZ	35 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	10 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	10.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	12 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	11 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

Features & functions	
FITTED WITH:	Mirror contact 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	5000 mechanical Operations/h (DC operated) 5000 mechanical Operations/h (AC 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	2.7 mΩ
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces
VOLTAGE TYPE	DC

Magnet system

ARCING TIME	10 ms
DROP-OUT VOLTAGE	0.2 - 0.6 x UC, DC operated
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.85 - 1.1 V AC/DC x Us 0.7 - 1.2 V DC x Uc
POWER CONSUMPTION (PICK-UP) AT DC	12 W
POWER CONSUMPTION (SEALING) AT DC	0.9 W
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	27 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	47 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	30 ms

Motor rating

ASSIGNED MOTOR POWER AT 115/120 V, 60 HZ, 1-PHASE	2 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	7.5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	5 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	10 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	20 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)

125 A, max. Fuse, SCCR (UL/CSA)
5 kA, SCCR (UL/CSA)
125 A, max. CB, SCCR (UL/CSA)

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

10/100 kA, Fuse, SCCR (UL/CSA)
125/70 A, Class J, max. Fuse, SCCR (UL/CSA)
50/32 A, max. CB, SCCR (UL/CSA)
10/65 kA, CB, SCCR (UL/CSA)

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

50/32 A, max. CB, SCCR (UL/CSA)
10/100 kA, Fuse, SCCR (UL/CSA)
10/22 kA, CB, SCCR (UL/CSA)
125/100 A, Class J, max. Fuse, SCCR (UL/CSA)

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

63 A gG/gL

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

50 A gG/gL

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

35 A gG/gL

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

35 A gG/gL

Special purpose ratings

SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING

25 A, FLA 480 V 60 Hz 3-ph,
100,000 cycles acc. to UL
1995, (UL/CSA)
150 A, LRA 480 V 60 Hz 3-
ph, 100,000 cycles acc. to
UL 1995, (UL/CSA)

SPECIAL PURPOSE RATING OF ELEVATOR CONTROL

10 HP, 480 V 60 Hz 3-ph,
(UL/CSA)
11 A, 200 V 60 Hz 3-ph,
(UL/CSA)
15.2 A, 240 V 60 Hz 3-ph,
(UL/CSA)
3 HP, 200 V 60 Hz 3-ph,
(UL/CSA)
14 A, 480 V 60 Hz 3-ph,
(UL/CSA)
17 A, 600 V 60 Hz 3-ph,
(UL/CSA)
5 HP, 240 V 60 Hz 3-ph,
(UL/CSA)
15 HP, 600 V 60 Hz 3-ph,
(UL/CSA)

SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)

40 A, FLA 480 V 60 Hz
3phase; (CSA)
180 A, LRA 600 V 60 Hz
3phase; (CSA)
240 A, LRA 480 V 60 Hz
3phase; (CSA)
30 A, FLA 600 V 60 Hz
3phase; (CSA)

SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING

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

SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS

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

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS

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

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)

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)

40 A, Maximum motor
rating (UL/CSA)

Terminal capacities

SCREW SIZE	M3.5, Terminal screw, Control circuit cables M5, Terminal screw, Main cables
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
TERMINAL CAPACITY (FLEXIBLE)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 10) mm ² , Main cables 1 x (0.75 - 16) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (STRANDED)	1 x 16 mm ² , Main cables
TIGHTENING TORQUE	3 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)	18 - 14, Control circuit cables 18 - 6, Main 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-uk251254en.pdf eaton-4-pole-contactor-declaration-of-conformity-eu250771en.pdf
DRAWINGS	eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-dimensions-2110dim-11.eps eaton-contactors-dimensions-2110dim-10.eps
ECAD MODEL	ETN.118913.edz
INSTALLATION INSTRUCTIONS	IL03407049Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CS-dil_mp32_45 eaton-iec-contactors-mcad-drawings-dil-mp32-45.dwg
WIRING DIAGRAMS	eaton-contactors-wiring-diagram-2100swi-121.eps

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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