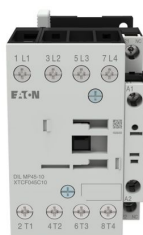


Specifications



Eaton 118914

Eaton Moeller® series DILMP Contactor, 4 pole, 45 A, 1 NC, 230 V 50 Hz, 240 V 60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor
CATALOG NUMBER	118914
MODEL CODE	DILMP45- 01(230V50HZ,240V60HZ)
EAN	4015081170418
PRODUCT LENGTH/DEPTH	97 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	58 mm
PRODUCT WEIGHT	0.49 kg

CERTIFICATIONS	UL File No.: E29096 CSA File No.: 012528 IEC/EN 60947 VDE 0660 UL CSA UL Category Control No.: NLDX CE IEC/EN 60947-4-1 CSA Class No.: 2411-03, 3211-04 CSA-C22.2 No. 60947-4-1- 14 UL 60947-4-1
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CATALOG NOTES	Contacts according to EN 50012
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Ambient conditions, mechanical

SHOCK RESISTANCE

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
7 g, N/O auxiliary 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) 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)** 105 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
(3-POLE, ENCLOSED)** 36 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 55°C (3-POLE, OPEN)** 40 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
AT 60°C (3-POLE, OPEN)** 39 A

**CONVENTIONAL
THERMAL CURRENT I_{TH}
OF MAIN CONTACTS (1-
POLE, OPEN)** 117 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	13.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	4.4 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	45 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	2.1 W

Electrical rating

**RATED BREAKING
CAPACITY AT 220/230 V** 250 A

**RATED BREAKING
CAPACITY AT 380/400 V** 250 A

**RATED BREAKING
CAPACITY AT 500 V** 250 A

**RATED BREAKING
CAPACITY AT 660/690 V** 144 A

**RATED INSULATION
VOLTAGE (UI)** 690 V

**RATED MAKING
CAPACITY UP TO 690 V
(COS PHI TO IEC/EN
60947)** 350 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-1,
380 V, 400 V, 415 V** 45 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
220 V, 230 V, 240 V** 25 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
380 V, 400 V, 415 V** 25 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
440 V** 25 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
500 V** 25 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
660 V, 690 V** 15 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-1,
110 V** 45 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-1,
220 V** 45 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-1, 60
V** 45 A

**RATED OPERATIONAL
POWER AT AC-1, 220/230
V, 50 HZ** 16 kW

**RATED OPERATIONAL
POWER AT AC-1, 240 V, 50
HZ** 18 kW

**RATED OPERATIONAL
POWER AT AC-1, 380/400
V, 50 HZ** 28 kW

Features & functions

FITTED WITH: Mirror contact

NUMBER OF POLES Four-pole

RATED OPERATIONAL POWER AT AC-1, 415 V, 50 HZ		31 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ		33 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ		37 kW
RATED OPERATIONAL POWER AT AC-1, 690 V, 50 HZ		49 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ		8.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ		11 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ		14.5 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ		15.5 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ		17.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ		14 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX		690 V

General information

APPLICATION	Contactors for 4 pole electric consumers
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP00
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 10,000,000 Operations (DC 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	AC

Magnet system

DROP-OUT VOLTAGE	AC operated: 0.6 - 0.4 x UC, AC operated
DUTY FACTOR	100 %
PICK-UP VOLTAGE	0.8 - 1.1 V AC x Uc 0.85 - 1.1 V AC/DC x Us
POWER CONSUMPTION, PICK-UP, 50 HZ	50 VA, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, PICK-UP, 60 HZ	50 VA, Dual-frequency coil in a cold state and 1.0 x Us 40 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	8 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us
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
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	22 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	16 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	14 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 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) 5 kA, SCCR (UL/CSA)
125 A, max. CB, SCCR (UL/CSA)
125 A, max. Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V) 50/32 A, max. CB, SCCR (UL/CSA)
10/100 kA, Fuse, SCCR (UL/CSA)
125/70 A, Class J, max. Fuse, SCCR (UL/CSA)
10/65 kA, CB, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V) 125/100 A, Class J, max. Fuse, SCCR (UL/CSA)
50/32 A, max. CB, SCCR (UL/CSA)
10/22 kA, CB, SCCR (UL/CSA)
10/100 kA, Fuse, SCCR (UL/CSA)

SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V 100 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 15.2 A, 240 V 60 Hz 3-ph, (UL/CSA)
10 HP, 480 V 60 Hz 3-ph, (UL/CSA)
11 A, 200 V 60 Hz 3-ph, (UL/CSA)
14 A, 480 V 60 Hz 3-ph, (UL/CSA)
15 HP, 600 V 60 Hz 3-ph, (UL/CSA)
3 HP, 200 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)

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

SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS 40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS 40 A (600V 60Hz 3phase, 347V 60Hz 1phase)
40 A (480V 60Hz 3phase, 277V 60Hz 1phase)

Switching capacity

**SWITCHING CAPACITY
(AUXILIARY CONTACTS,
GENERAL USE)** 1 A, 250 V DC, (UL/CSA)
10 A, 600 V AC, (UL/CSA)

**SWITCHING CAPACITY
(AUXILIARY CONTACTS,
PILOT DUTY)** P300, DC operated
(UL/CSA)
A600, AC 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
(SOLID)** 1 x (0.75 - 4) mm², Control
circuit cables
2 x (0.75 - 10) mm², Main
cables
2 x (0.75 - 2.5) mm²,
Control circuit cables
1 x (0.75 - 16) mm², Main
cables

**TERMINAL CAPACITY
(STRANDED)** 1 x 16 mm², 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 - 16) mm², Main
cables
2 x (0.75 - 10) mm², Main
cables
1 x (0.75 - 2.5) mm²,
Control circuit cables
2 x (0.75 - 2.5) mm²,
Control circuit cables

**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-eu250772en.pdf eaton-4-pole-contactor-declaration-of-conformity-uk251255en.pdf
DRAWINGS	eaton-contactors-dimensions-2110dim-11.eps eaton-contactors-dimensions-2110dim-10.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-mounting-dilm-dimensions-002.eps
ECAD MODEL	ETN.118914.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:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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