

Specificații



Imaginile sunt doar cu titlu informativ



Eaton 239402

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 37 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals DILM80(230V50HZ,240V60HZ)

Specificații generale

PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	239402
EAN	4015082394028
PRODUCT LENGTH/DEPTH	160 mm
PRODUCT HEIGHT	170 mm
PRODUCT WIDTH	90 mm
PRODUCT WEIGHT	2.18 kg
CERTIFICATIONS	CSA Certified UL Listed IEC 60947-4-1 EN 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL File No.: E29096 CSA VDE 0660 CSA File No.: 012528 IEC/EN 60947 IEC/EN 60947-4-1 UL 60947-4-1 CE UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL
CATALOG NOTES	Contacts according to EN 50012
MODEL CODE	DILM80(230V50HZ,240V60HZ)



Powering Business Worldwide

Condiții de mediu, mecanice

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
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
5 g, N/C auxiliary 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, Half-sinusoidal shock 10 ms

Condiții climatice de mediu

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 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

Comunicație

CONNECTION TO SMARTWIRE-DT No

Contacte

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT) 3

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

Curent termic convențional Ith

**CONVENTIONAL
THERMAL CURRENT ITH
(1-POLE, ENCLOSED)** 200 A

**CONVENTIONAL
THERMAL CURRENT ITH
(3-POLE, ENCLOSED)** 80 A

**CONVENTIONAL
THERMAL CURRENT ITH
AT 55°C (3-POLE, OPEN)** 94 A

**CONVENTIONAL
THERMAL CURRENT ITH
AT 60°C (3-POLE, OPEN)** 90 A

**CONVENTIONAL
THERMAL CURRENT ITH
OF MAIN CONTACTS (1-
POLE, OPEN)** 225 A

Verificarea proiectării

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	9 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	3 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	80 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	5.8 W

Valoare nominală electrică

RATED BREAKING CAPACITY AT 220/230 V	800 A
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RATED BREAKING CAPACITY AT 380/400 V	800 A
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RATED BREAKING CAPACITY AT 500 V	800 A
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RATED BREAKING CAPACITY AT 660/690 V	650 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)	1120 A
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RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	110 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	80 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	80 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	80 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	80 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	65 A
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RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	40 A
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RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	40 A
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RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	40 A
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RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	27 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	110 A
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	70 A
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Compatibilitate electromagnetică

EMITTED INTERFERENCE	According to EN 60947-1
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INTERFERENCE IMMUNITY	According to EN 60947-1
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RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	110 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	27.5 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	37 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	48 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	51 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	58 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	63 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	11.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	24 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	25 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	29 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	26 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

Features & functions	
NUMBER OF POLES	Three-pole

Informații generale	
APPLICATION	Contactors for Motors
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP00
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
OPERATING FREQUENCY	3600 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	0.6 mΩ
SUITABLE FOR	Also motors with efficiency class IE3
TYPE	Full voltage reversing medium contactor
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
VOLTAGE TYPE	AC
FRAME SIZE	FS4

Sistem magnetic

ARCING TIME	15 ms
COIL VOLTAGE	230-240 Vac, 50/60 Hz
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x Uc, AC operated
DUTY FACTOR	100 %
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
POWER CONSUMPTION, PICK-UP, 60 HZ	345 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
POWER CONSUMPTION, SEALING, 50 HZ	5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, 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	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	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	9 ms

Capacitatea nominală a motorului

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 25 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 30 HP

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

ASSIGNED MOTOR
POWER AT 575/600 V, 60 HZ, 3-PHASE 75 HP

DELAY) - MIN

POWER CONSUMPTION 37 kW

Siguranța

SAFE ISOLATION

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

Grad de protecție la scurtcircuit

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

160 A gG/gL

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

160 A gG/gL

Capacități nominale specifice

SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING

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

SPECIAL PURPOSE RATING OF ELEVATOR CONTROL

20 HP, 200 V 60 Hz 3-ph,
(UL/CSA)
62.1 A, 200 V 60 Hz 3-ph,
(UL/CSA)
68 A, 240 V 60 Hz 3-ph,
(UL/CSA)
65 A, 480 V 60 Hz 3-ph,
(UL/CSA)
25 HP, 240 V 60 Hz 3-ph,
(UL/CSA)
60 HP, 600 V 60 Hz 3-ph,
(UL/CSA)
50 HP, 480 V 60 Hz 3-ph,
(UL/CSA)
62 A, 600 V 60 Hz 3-ph,
(UL/CSA)

SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)

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

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS

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

Capacitate de comutare

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)

125 A, Maximum motor
rating (UL/CSA)

Secțiuni de racordare

SCREW SIZE	M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main 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)	24 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 (SOLID)	1 x (0.75 - 4) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (STRANDED)	1 x (16 - 70) mm ² , Main cables 2 x (16 - 50) mm ² , Main cables
TERMINALS	Screw terminals
TIGHTENING TORQUE	14 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (10 - 50) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (10 - 70) mm ² , Main cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables Single 8...3/0, double 8...2/0, Main cables

Resurse

CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve.eps eaton-contactors-switch-dilm-characteristic-curve-002.eps
DECLARATIONS OF CONFORMITY	eaton-contactor-declaration-of-conformity-uk251235en.pdf
	eaton-contactors-dilm-dimensions-003.eps eaton-contactors-dilm-dimensions-011.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-dilm-3d-drawing.eps eaton-contactors-dilm-3d-drawing-013.eps eaton-general-ie-ready-dilm-contactor-standards.eps
INSTRUCȚIUNI DE INSTALARE	eaton-dil-contactors-instruction-leaflet-il03407039z.pdf
PEP ECO-PASSPORT	eaton-iec-contactors-pep-eato-00021-v0101-en.pdf
SCHEME ELECTRICE	eaton-contactors-contact-dilm-wiring-diagram-003.eps

DENUMIREA PROIECTULUI:

NUMĂRUL PROIECTULUI:

PREGĂTIT DE:

DATA:



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