



Eaton 290080

Eaton Moeller® series DILM Contactor, 3 pole, 380 V 400 V 7.5 kW, 1 NC, 24 V 50 Hz, AC operation, Screw terminals DILM15-01(24V50HZ)

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PRODUCT NAME Eaton Moeller® series DILM contactor

CATALOG NUMBER 290080

EAN 4015082900809

PRODUCT LENGTH/DEPTH 75 mm

PRODUCT HEIGHT 68 mm

PRODUCT WIDTH 45 mm

PRODUCT WEIGHT 0.24 kg

COMPLIANCES CE Marked

CERTIFICATIONS

CSA Std. C22.2 No. 14-05
 UL 508
 EN 60947-4-1
 IEC 60947-4-1
 VDE
 CSA
 CE
 UL File No.: E29096
 VDE 0660
 UL 60947-4-1
 IEC/EN 60947
 IEC/EN 60947-4-1
 UL
 CSA File No.: 012528
 CSA-C22.2 No. 60947-4-1-14
 UL Category Control No.: NLDX
 CSA Class No.: 2411-03, 3211-04

CATALOG NOTES Contacts according to EN 50012

MODEL CODE DILM15-01(24V50HZ)

Keskkonnatingimused, mehaanilised

SHOCK RESISTANCE

5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, 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
5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms

Kommunikatsioon

CONNECTION TO SMARTWIRE-DT

No

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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

Kontaktid

NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
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

Termiline nimivool lth

**CONVENTIONAL
THERMAL CURRENT ITH
(1-POLE, ENCLOSED)** 45 A

**CONVENTIONAL
THERMAL CURRENT ITH
(3-POLE, ENCLOSED)** 18 A

**CONVENTIONAL
THERMAL CURRENT ITH
AT 55°C (3-POLE, OPEN)** 21 A

**CONVENTIONAL
THERMAL CURRENT ITH
AT 60°C (3-POLE, OPEN)** 20 A

**CONVENTIONAL
THERMAL CURRENT ITH
OF MAIN CONTACTS (1-
POLE, OPEN)** 50 A

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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	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.5 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	15.5 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W

Elektriline reiting

**RATED BREAKING
CAPACITY AT 220/230 V** 124 A

**RATED BREAKING
CAPACITY AT 380/400 V** 124 A

**RATED BREAKING
CAPACITY AT 500 V** 100 A

**RATED BREAKING
CAPACITY AT 660/690 V** 70 A

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

**RATED MAKING
CAPACITY UP TO 690 V
(COS PHI TO IEC/EN
60947)** 155 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-1,
380 V, 400 V, 415 V** 22 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
220 V, 230 V, 240 V** 15.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
380 V, 400 V, 415 V** 15.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
440 V** 15.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
500 V** 12.5 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-3,
660 V, 690 V** 9 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-4,
220 V, 230 V, 240 V** 7 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-4,
440 V** 7 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-4,
500 V** 6 A

**RATED OPERATIONAL
CURRENT (IE) AT AC-4,
660 V, 690 V** 5 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-1,
110 V** 20 A

**RATED OPERATIONAL
CURRENT (IE) AT DC-1,
220 V** 15 A

Elektromagnetiline ühilduvus

EMITTED INTERFERENCE According to EN 60947-1

**INTERFERENCE
IMMUNITY** According to EN 60947-1

RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	20 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	4.6 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	8 kW
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	8.4 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	7.5 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	7 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	2 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	2.2 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	3.4 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	3.6 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	3.5 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	4.4 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V

Features & functions

FITTED WITH:	Mirror contact
NUMBER OF POLES	Three-pole

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APPLICATION	Contactors for Motors
CONNECTION	Screw terminals
DEGREE OF PROTECTION	IP20
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated)
OPERATING FREQUENCY	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
RESISTANCE PER POLE	2.5 mΩ
UTILIZATION CATEGORY	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
VOLTAGE TYPE	AC
FRAME SIZE	FS1

Magnetsüsteem

ARCING TIME	10 ms
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	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, PICK-UP, 60 HZ	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 60 HZ	4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1.4 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	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	24 V
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	21 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	15 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	9 ms

Mootori võimsus

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

ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE 5 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE 3 HP

ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE 5 HP

ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE 10 HP

ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE 10 HP

Ohutus

SAFE ISOLATION

400 V AC, Between the contacts, According to EN 61140

400 V AC, Between coil and contacts, According to EN 61140

Lühistaluvus

SHORT-CIRCUIT CURRENT RATING (BASIC RATING) 5 kA, 45 A max. fuse, SCCR (UL/CSA)
5 kA, 45 A max. CB, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V) 100 kA, 60 A CLASS J max. fuse, SCCR (UL/CSA)
30 kA, 25 A CLASS RK5 max. fuse, SCCR (UL/CSA)

SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V) 100 kA, 60 A CLASS J max. fuse, SCCR (UL/CSA)
30 kA, 25 A CLASS RK5 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 20 A gG/gL

SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V 20 A gG/gL

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SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	90 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 15 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	9.6 A, 240 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 V 60 Hz 3-ph, (UL/CSA) 9 A, 600 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	10 A, FLA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA) 10 A, FLA 480 V 60 Hz 3phase; (CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	20 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 20 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	20 A (600V 60Hz 3phase, 347V 60Hz 1phase) 20 A (480V 60Hz 3phase, 277V 60Hz 1phase)

Lülitusvõime

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)	20 A, Maximum motor rating (UL/CSA)

Klemmide ristlõige

SCREW SIZE	M3.5, Terminal screw
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)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 4) mm ²
TIGHTENING TORQUE	1.2 Nm, Screw terminals
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 10, double 18 - 14

Abiinfo

CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve-002.eps eaton-contactors-switch-dilm-characteristic-curve.eps
ECAD MODEL	ETN.290080.edz
ELEKTRISKEEMID	eaton-contactors-wiring-diagram-2100swi-117.eps
JONISED	eaton-contactors-frame-dilm-dimensions.eps eaton-contactors-module-dilm-dimensions.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-module-dilm-dimensions-002.eps eaton-contactors-dilm-3d-drawing-007.eps
MCAD MODEL	DA-CS-dil_m7_15 eaton-iec-contactors-mcad-drawings-dil-m7-15.dwg
PAIGALDUSJUHISED	eaton-contactors-dila-dilm7-15-dilmp20-il03407013z.pdf
VASTAVUSAVALDUSED	eaton-contactor-declaration-of-conformity-uk251209en.pdf eaton-contactor-declaration-of-conformity-eu250726en.pdf

PROJEKTI NIMI:

PROJEKTI NUMBER:

KOOSTAJA:

KUUPÄEV:



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

Jälgige meid sotsiaalmeedias, et saada uusimat toote- ja tooteavet.



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