## Specifications

## Eaton 106363

Eaton Moeller® series DILM Contactor, 380 V 400 V 7.5 kW, 2 N/O, 2 NC, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals DILM15-22(230V50HZ,240V60HZ)

S
Eaton Moeller® series DILM contactor
106363
DILM15- 22(230V50HZ,240V60HZ)
4015081061334
117 mm
68 mm
45 mm
0.296 kg
CE Marked
IEC 60947-4-1 EN 60947-4-1 UL 508 CSA Std. C22.2 No. 14-05 VDE IEC/EN 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 UL 60947-4-1 UL CSA IEC/EN 60947 VDE 0660 CSA File No.: 012528 CE CSA-C22.2 No. 60947-4-1- 14 UL File No.: E29096
Contacts according to EN 50012
106363



ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection	CATALOGS
AMPERAGE RATING	15A	
NUMBER OF POLES	Three-pole	
VOLTAGE RATING	230-240 V	
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.	CHARACTERISTIC
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	DECLARATIONS O
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.	DRAWINGS
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.	Meets the product standard's requirements.	ECAD MODEL
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.	INSTALLATION INSTRUCTIONS
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be evaluated.	INSTALLATION VII

Resources	
	eaton-product-overview- for-machinery-catalogue- ca08103003zen-en-us.pdf
CATALOGS	SmartWire-DT Catalog
	Product Range Catalog Switching and protecting motors
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve-002.eps
	eaton-contactors-switch- dilm-characteristic- curve.eps
	eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
DECLARATIONS OF CONFORMITY	DA-DC-00004792.pdf
	<u>DA-DC-00004810.pdf</u>
	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors- mounting-dilm- dimensions-002.eps
DRAWINGS	eaton-contactors-frame- dilm-dimensions.eps
	eaton-contactors-module- dilm-dimensions-002.eps
	eaton-contactors-module- dilm-dimensions.eps
	eaton-contactors-contact- dilm-3d-drawing.eps
ECAD MODEL	ETN.106363.edz
	<u>IL03407043Z</u>
INSTALLATION INSTRUCTIONS	eaton-contactors-dila- dilm7-15-dilmp20- il03407013z.pdf
INSTALLATION VIDEOS	WIN-WIN with push-in technology

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 AGAINST ELECTRIC SHOCK	Does not apply, since the 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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls 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	ls the panel builder's responsibility.
FITTED WITH:	Mirror contact
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	5000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
UTILIZATION CATEGORY	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging,

MCAD MODEL	DA-CS-dil m7 15 a xhi
WICAD WIODEL	DA-CD-dil_m7_15_a_xhi
	2100SWI-125
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram- 004.eps

	reversing, inching
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	25 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	40 °C
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
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 OF MAIN CONTACTS (1- POLE, OPEN)	50 A
EQUIPMENT HEAT DISSIPATION, CURRENT-	0 W

DEPENDENT PVID	
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.5 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
ARCING TIME	10 ms
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
SCREWDRIVER SIZE	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
VOLTAGE TYPE	AC
DEGREE OF PROTECTION	IP20
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	2
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	2
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-25 °C
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 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
CONTACT CONFIGURATION	2 NO, 2 NC
DROP-OUT VOLTAGE	AC operated: 0.6 - 0.3 x UC, AC operated
OVERVOLTAGE CATEGORY	Ш
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE	According to FN 60047 1
IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz)
	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz)
LIFESPAN, MECHANICAL  PICK-UP VOLTAGE  POWER CONSUMPTION,	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) 0.8 - 1.1 V AC x Uc 24 VA, Dual-frequency coil in a cold state and 1.0 x
PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz) 0.8 - 1.1 V AC x Uc 24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 400 V AC, Between coil and contacts, According to EN 61140 400 V AC, Between the contacts, According to EN
PICK-UP VOLTAGE  POWER CONSUMPTION, PICK-UP, 50 HZ  SAFE ISOLATION  POWER CONSUMPTION,	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz)  0.8 - 1.1 V AC x Uc  24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz  400 V AC, Between coil and contacts, According to EN 61140 400 V AC, Between the contacts, According to EN 61140  30 VA, Dual-frequency coil in a cold state and 1.0 x

	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
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)
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup> 2 x (0.75 - 2,5) mm <sup>2</sup>
SHOCK RESISTANCE	5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Halfsinusoidal 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
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 4) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup>
TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 10, double 18 - 14

SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)  TIGHTENING TORQUE  RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX  RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN  RATED INSULATION VOLTAGE (UI)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL CURRENT (IE) AT AC-1, 22 A
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX  RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN  RATED INSULATION VOLTAGE (UI)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL
VOLTAGE (US) AT DC - MAX  RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN  RATED INSULATION VOLTAGE (UI)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL
VOLTAGE (US) AT DC - MIN  RATED INSULATION VOLTAGE (UI)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL
VOLTAGE (UI)  RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL
CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)  RATED OPERATIONAL
121122 2121112112
380 V, 400 V, 415 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 15.5 A 220 V, 230 V, 240 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 15.5 A 380 V, 400 V, 415 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 15.5 A 440 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 12.5 A 500 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 9 A 660 V, 690 V
RATED OPERATIONAL CURRENT (IE) AT AC-4, 7 A 220 V, 230 V, 240 V
RATED OPERATIONAL CURRENT (IE) AT AC-4, 7 A 400 V
RATED OPERATIONAL CURRENT (IE) AT AC-4, 7 A 440 V
RATED OPERATIONAL CURRENT (IE) AT AC-4, 6 A 500 V
RATED OPERATIONAL
CURRENT (IE) AT AC-4, 5 A 660 V, 690 V

CURRENT (IE) AT DC-1, 110 V  RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V  RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V  RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)  RATED OPERATIONAL POWER AT AC-3, 240 V, 50 4.6 kW
CURRENT (IE) AT DC-1, 15 A 220 V  RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 20 A V  RATED OPERATIONAL CURRENT FOR SPECIFIED 15.5 A HEAT DISSIPATION (IN)  RATED OPERATIONAL
CURRENT (IE) AT DC-1, 60 20 A V  RATED OPERATIONAL CURRENT FOR SPECIFIED 15.5 A HEAT DISSIPATION (IN)  RATED OPERATIONAL
CURRENT FOR SPECIFIED 15.5 A HEAT DISSIPATION (IN) RATED OPERATIONAL
HZ
RATED OPERATIONAL POWER AT AC-3, 380/400 7.5 kW V, 50 HZ
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 8 kW HZ
RATED OPERATIONAL POWER AT AC-4, 220/230 2 kW V, 50 HZ
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 2.2 kW HZ
RATED OPERATIONAL POWER AT AC-4, 380/400 3 kW V, 50 HZ
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 3.4 kW HZ
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 3.6 kW HZ
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 3.5 kW HZ
RATED OPERATIONAL POWER AT AC-4, 660/690 4.4 kW V, 50 HZ
RATED OPERATIONAL 7.4 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - 690 V MAX
<b>RESISTANCE PER POLE</b> 2.5 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT  1.4 W

PVS	
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
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
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	60 A, max. CB, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	25 A, Class RK5/ 60 A Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 25 A, Class RK5/60 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)	20 A gG/gL
AT 400 V	
AT 400 V SHORT-CIRCUIT	

(TYPE 2 COORDINATION)	
AT 690 V  SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	20 A (480V 60Hz 3phase, 277V 60Hz 1phase) 20 A (600V 60Hz 3phase, 347V 60Hz 1phase)
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 A, 600 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 V 60 Hz 3-ph, (UL/CSA) 9.6 A, 240 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 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)
SPECIAL PURPOSE RATING OF REFRIGERATION CONTROL (CSA ONLY)	10 A, FLA 600 V 60 Hz 3phase; (CSA) 10 A, FLA 480 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 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)
OPERATING TEMPERATURE	-25° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	22 A

21 A
20 A
8.4 kW
7.5 kW
7 kW
230 V 50 Hz, 240 V 60 Hz
Max. 2000 m
24 V
690 V
24 V
690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



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