Specifications

Eaton 106371

Eaton Moeller® series DILM Contactor, 380 V 400 V 7.5 kW, 2 N/O, 2 NC, RDC 24: 24 - 27 V DC, DC operation, Screw terminals

General specification	าร
PRODUCT NAME	Eaton Moeller® series DILM contactor
CATALOG NUMBER	106371
MODEL CODE	DILM17-22(RDC24)
EAN	4015081061419
PRODUCT LENGTH/DEPTH	138 mm
PRODUCT HEIGHT	85 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.603 kg
CERTIFICATIONS	CSA UL CSA File No.: 012528 CSA-C22.2 No. 60947-4-1- 14 VDE 0660 CE IEC/EN 60947 CSA Class No.: 2411-03, 3211-04 IEC/EN 60947-4-1 UL File No.: E29096 UL Category Control No.: NLDX UL 60947-4-1
CATALOG NOTES	Also tested according to AC-3e.



Product specification	S	Resources	
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT	Screw connection	CATALOGS	Product Range Catalog Switching and protecting motors eaton-product-overview-
NUMBER OF POLES	Three note	CATALOGS	for-machinery-catalogue-
NUMBER OF POLES	Three-pole The panel builder is		ca08103003zen-en-us.pdf
10.10 TEMPERATURE RISE	responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.		eaton-contactors- component-dilm- characteristic-curve- 003.eps
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	CHARACTERISTIC CURVE	eaton-contactors-switch-dilm-characteristic-curve.eps
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.		dilm-characteristic-curve- 002.eps eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	DECLARATIONS OF CONFORMITY	DA-DC-00004783.pdf DA-DC-00004816.pdf eaton-contactors-
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.		mounting-dilm- dimensions-002.eps
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.		eaton-contactors- mounting-dilm- dimensions.eps
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.	DRAWINGS	eaton-contactors- dimensions-210t014.eps eaton-contactors-contact- dimensions-210x202.eps
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.		eaton-general-ie-ready- dilm-contactor- standards.eps
10.2.4 RESISTANCE TO	Markatha and des		eaton-contactors-contact- dilm-3d-drawing-002.eps
ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.	ECAD MODEL	ETN.106371.edz
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to	INSTALLATION INSTRUCTIONS	IL03407014Z2021_09.pdf IL03407044Z
40.2 6 MESULANIZATI	be evaluated. Does not apply, since the	INSTALLATION VIDEOS	WIN-WIN with push-in technology
10.2.6 MECHANICAL IMPACT	entire switchgear needs to be evaluated.	MCAD MODEL	DA-CS-dil m17 38 a xhi

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	Is the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls 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 Suppressor circuit in actuating electronics
OPERATING FREQUENCY	5000 mechanical Operations/h (DC 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-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
CONNECTION	Screw terminals

	DA-CD-dil m17 38 a xhi
WIRING DIAGRAMS	2100SWI-125

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	2 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	15 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	80 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	32 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	37 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	88 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	2.1 W
HEAT DISSIPATION CAPACITY PDISS	0 W

HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0.7 W
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	47 ms
SWITCHING TIME (DC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	30 ms
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	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm,
	Terminal screw, Standard screwdriver
VOLTAGE TYPE	Terminal screw, Standard
VOLTAGE TYPE DEGREE OF PROTECTION	Terminal screw, Standard screwdriver
	Terminal screw, Standard screwdriver
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY	Terminal screw, Standard screwdriver DC IP00
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY	Terminal screw, Standard screwdriver DC IP00 2
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED	Terminal screw, Standard screwdriver DC IP00 2
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS	Terminal screw, Standard screwdriver DC IP00 2 2
DEGREE OF PROTECTION NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS) NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACTS (NORMALLY OPEN	Terminal screw, Standard screwdriver DC IP00 2 2 0

POWER CONSUMPTION (SEALING) AT DC	0.9 W
RATED BREAKING CAPACITY AT 220/230 V	170 A
RATED BREAKING CAPACITY AT 380/400 V	170 A
RATED BREAKING CAPACITY AT 500 V	170 A
RATED BREAKING CAPACITY AT 660/690 V	120 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
DROP-OUT VOLTAGE	At least smoothed two- phase bridge rectifier or three-phase rectifier 0.6 - 0.15 x UC, DC operated
OVERVOLTAGE CATEGORY	Ш
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (DC operated) 7,000,000 Operations (Coil 50/60 Hz)
PICK-UP VOLTAGE	0.7 - 1.2 V DC x Uc 24 - 27 V DC (RDC 24)
SAFE ISOLATION	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
SCREW SIZE	M5, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables

TERMINAL CAPACITY (STRANDED)	1 x 16 mm², Main cables
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)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
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
SHOCK RESISTANCE	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 3.5 g, N/C 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 5.3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletopmounted, Half-sinusoidal shock 10 ms 6.9 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 16) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 10) mm², Main cables

TERMINAL CAPACITY (SOLID/STRANDED AWG)	Single 18 - 6, double 18 - 8, Main cables 18 - 14, Control circuit cables
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	40 A, Maximum motor rating (UL/CSA)
TIGHTENING TORQUE	3.2 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	27 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)	238 A
RATED OPERATIONAL CURRENT (IE) AT AC-1, 380 V, 400 V, 415 V	40 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	18 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	12 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	10 A

RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	10 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	8 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	35 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	35 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	35 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	18 A
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-4, 220/230 V, 50 HZ	2.5 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	3 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	4.5 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	5 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	5.5 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	6 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	6.5 kW
RATED OPERATIONAL POWER (NEMA)	7.4 kW

RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	$2.7~\text{m}\Omega$
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	0.9 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
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)	50/32 A, max. CB, SCCR (UL/CSA) 10/65 kA, CB, SCCR (UL/CSA) 10/100 kA, Fuse, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	50/32 A, max. CB, SCCR (UL/CSA) 125/70 A, Class J, max. Fuse, 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	63 A gG/gL
SUITABLE FOR	Also motors with efficiency class IE3
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

SECIAL PURPOSE TING OF BALLAST ## SECTRICAL DISCHARGE ## MPS ## 100,000 cycles acc. to UL 1995, (UL/CSA) 18 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 18 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 600 V 60 Hz 3-ph, (UL/CSA) 11 A, 200 V 60 Hz 3-ph, (UL/CSA) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 30 A, FLA 600 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA) 40 A, FLA 480 V 60 Hz 3-ph, (UL/CSA)
ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 18 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 10 HP, 600 V 60 Hz 3-ph, (UL/CSA) 3 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 600 V 60 Hz 3-ph, (UL/CSA) 11 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) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA)
(UL/CSA) 3 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 600 V 60 Hz 3-ph, (UL/CSA) 11 A, 200 V 60 Hz 3-ph, (UL/CSA) 11 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) 3 HP, 240 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 240 A, FLA 600 V 60 Hz 3phase; (CSA) 40 A, FLA 480 V 60 Hz 3phase; (CSA) 40 A, LRA 480 V 60 Hz 3phase; (CSA) 180 A, LRA 600 V 60 Hz
3phase; (CSA) 40 A, FLA 480 V 60 Hz TING OF 3phase; (CSA) FRIGERATION 240 A, LRA 480 V 60 Hz NTROL (CSA ONLY) 3phase; (CSA) 180 A, LRA 600 V 60 Hz
3phase; (CSA)
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)
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)
NVENTIONAL ERMAL CURRENT ITH 40 A 40°C (3-POLE, OPEN)
ERMAL CURRENT ITH 40 A

THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN) RATED OPERATIONAL

POWER AT AC-3, 440 V, 50 10.5 kW

ΗZ

RATED OPERATIONAL

POWER AT AC-3, 500 V, 50 12 kW

ΗZ

RATED OPERATIONAL

POWER AT AC-3, 690 V, 50 11 kW

HΖ

ACTUATING VOLTAGE RDC 24: 24 - 27 V DC

ALTITUDE Max. 2000 m

OPERATING VOLTAGE AT

AC, 50 HZ - MIN

24 V

OPERATING VOLTAGE AT

AC, 50 HZ - MAX

690 V

OPERATING VOLTAGE AT

AC, 60 HZ - MIN

24 V

OPERATING VOLTAGE AT

AC, 60 HZ - MAX

690 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	



Eaton Corporation plc

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

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.









