## Specifications







## Eaton 267214

Eaton Moeller® series DILM Contactor, 380 V 400 V 560 kW, 2 N/O, 2 NC, RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC, AC and DC operation, Screw connection

General specifications		
PRODUCT NAME	Eaton Moeller® series DILM Contactor	
CATALOG NUMBER	267214	
MODEL CODE	DILM1000/22(RA250)	
EAN	4015082672140	
PRODUCT LENGTH/DEPTH	232 mm	
PRODUCT HEIGHT	296 mm	
PRODUCT WIDTH	250 mm	
PRODUCT WEIGHT	17.338 kg	
CERTIFICATIONS	VDE 0660 CSA-C22.2 No. 60947-4-1- 14 UL Category Control No.: NLDX UL CE IEC/EN 60947 UL File No.: E29096 UL 60947-4-1 IEC/EN 60947-4-1 CSA CSA File No.: 012528 CSA Class No.: 3211-04	
CATALOG NOTES	<ul> <li>Contacts according to EN 50012</li> <li>Conventional thermal current Ith of main contacts (1-pole, open) at 60°</li> </ul>	

267214

**GLOBAL CATALOG** 



Product specification:	S
ACCESSORIES	Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
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.

Resources	
CATALOGS	Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 002.eps
	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-short- time-loading-dilm- characteristic-curve- 002.eps
	eaton-contactors- component-dilm- characteristic-curve.eps
DECLARATIONS OF CONFORMITY	DA-DC-00005043.pdf
DRAWINGS	eaton-contactors-dilm-dimensions-010.eps eaton-contactors-mounting-dilm-dimensions-002.eps eaton-contactors-mounting-dilm-dimensions.eps eaton-contactors-dilm-dimensions.eps eaton-contactors-dilm-3d-drawing-006.eps eaton-contactors-mounting-dilm-3d-drawing-002.eps
ECAD MODEL	<u>DA-CE-</u> ETN.DILM1000 22(RA250)
INSTALLATION INSTRUCTIONS	<u>IL03407023Z2021 09.pdf</u>
MCAD MODEL	eaton-iec-contactors- mcad-3d-models-dil- m1000.stp eaton-iec-contactors- mcad-drawings-dil- m1000.dwg

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	Is 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	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
FITTED WITH:	Suppressor circuit in actuating electronics
OPERATING FREQUENCY	1000 mechanical Operations/h (AC operated) 200 Operations/h 1000 mechanical Operations/h (DC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	8000 V AC
UTILIZATION CATEGORY	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching

SYSTEM OVERVIEW	eaton-contactors- system55-dilm-explosion- drawing.eps
WIRING DIAGRAMS	eaton-contactors-contact- dilm-wiring-diagram- 004.eps

CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	7777777 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	7777777 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	400 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	800 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	1000 HP
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	1044 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	2500 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	32 W
APPLICATION	Contactors for Motors
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)
ELECTRICAL CONNECTION TYPE OF	Rail connection

MAIN CIRCUIT	
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
VOLTAGE TYPE	AC/DC
DEGREE OF PROTECTION	IP00
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
RATED BREAKING CAPACITY AT 1000 V	5800 A
RATED BREAKING CAPACITY AT 220/230 V	8200 A
RATED BREAKING CAPACITY AT 380/400 V	8200 A
RATED BREAKING CAPACITY AT 500 V	8200 A
RATED BREAKING CAPACITY AT 660/690 V	8200 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	110 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	110 V
DROP-OUT VOLTAGE	0.2 x US max - 0.6 x US min, DC operated AC operated: 0.2 x US max

	- 0.6 x US min, AC operated
OVERVOLTAGE CATEGORY	III
BEHAVIOR IN MARGINAL AND TRANSITIONAL CONDITIONS	Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min ≤12 ms: Time is bridged successfully Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor
DUTY FACTOR	100 %
ELECTROMAGNETIC COMPATIBILITY	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
LIFESPAN, MECHANICAL	5,000,000 Operations (DC operated) 5,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us
POWER CONSUMPTION,	700 W, Pull-in power, Coil in a cold state and 1.0 x Us
PICK-UP, 50 HZ	800 VA, Pull-in power, Coil

in a cold state and 1.0 x Us
SAFE ISOLATION 1000 V AC, Between coil and contacts, According to EN 61140
700 W, Pull-in power, Coil in a cold state and 1.0 x Us
PICK-UP, 60 HZ  800 VA, Pull-in power, Coil in a cold state and 1.0 x Us
SCREW SIZE  M3.5, Terminal screw, Control circuit cables M12, Terminal screw, Main connections
POWER CONSUMPTION, and 1.0 x Us  SEALING, 50 HZ  26.5 VA, Coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ  26.5 VA, Coil in a cold state and 1.0 x Us 11.4 W, Coil in a cold state and 1.0 x Us
$ \begin{array}{c} 500 \text{ m}\Omega \text{ (Admissible} \\ \text{transitional contact} \\ \text{\textbf{RESISTANCE}} & \text{resistance - of the externa} \\ \text{control circuit device where} \\ \text{actuating A11)} \end{array} $
RATED OPERATIONAL CURRENT (IE)  463 A at up to 525 V (Individual compensation, three-phase capacitors, open) 265 A at 690 V (Individual compensation, three-phase capacitors, open)
INRUSH CURRENT Max. 30 x le (peak)
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)  15 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)
LIFESPAN, ELECTRICAL 100,000 Operations (at Condensor operation)
TERMINAL CAPACITY  2 x (0.75 - 2.5) mm²,  Control circuit cables
<b>(FLEXIBLE WITH FERRULE)</b> 1 x (0.75 - 2.5) mm², Control circuit cables

	8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 2.5) mm², Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	18 - 14, Control circuit cables 2/0 - 500 MCM, Main cables
SIGNAL LEVEL	5 V - 15 V, PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2), Magnet systems
TERMINAL CAPACITY (BUSBAR)	60 mm width, Main connection
TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)	50 - 240 mm²
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	1225 A, Maximum motor rating (UL/CSA)
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	70 - 240 mm²
POWER CONSUMPTION	Control transformer with uk ≤ 7%
TIGHTENING TORQUE	1.2 Nm, Screw terminals, Control circuit cables 35 Nm, Main cable connection screw/bolt
WIDTH ACROSS FLATS	18 mm
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	250 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	110 V
RATED INSULATION VOLTAGE (UI)	1000 V
RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)	9840 A
RATED OPERATIONAL CURRENT (IE) AT AC-3,	750 A

1000 V	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	1000 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	1000 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	1000 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	1000 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	1000 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V	700 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	800 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	800 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	800 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	800 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	800 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1000 A
RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ	1100 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	340 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	560 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	610 kW
RATED OPERATIONAL	1000 kW

POWER AT AC-4, 1000 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	260 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	280 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	450 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	490 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	520 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	590 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	780 kW
RATED OPERATIONAL POWER (NEMA)	596 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RESISTANCE PER POLE	$0.032~\text{m}\Omega$
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	6.5 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	70 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	110 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	1200 A, max. CB, SCCR (UL/CSA) 2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	2000 A, max. Fuse, SCCR (UL/CSA) 85 kA, Fuse, SCCR (UL/CSA)

	85 kA, CB, SCCR (UL/CSA) 1200 A, max. CB, SCCR (UL/CSA)
	85 kA, Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	85 kA, CB, SCCR (UL/CSA) 1200 A, max. CB, SCCR (UL/CSA) 2000 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V	800 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	1200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	1200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	630 A gG/gL
SPECIAL PURPOSE RATING OF DEFINITE PURPOSE RATING	6000 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 1200 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 6000 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 1200 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	1225 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	1095 A

CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	1000 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	650 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	730 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	1000 kW
ACTUATING VOLTAGE	RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	110 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	250 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	110 V
OPERATING VOLTAGE AT	250 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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