## Specifications

## Eaton 104463

Eaton Moeller® series DILMF Contactors for Semiconductor Industries acc. to SEMI F47, 380 V 400 V: 50 A, RAC 48: 42 - 48 V 50/60 Hz, Screw terminals

General specification	ns
PRODUCT NAME	Eaton Moeller® series DILMF contactor for semiconductor industries
CATALOG NUMBER	104463
MODEL CODE	DILMF50(RAC48)
EAN	4015081042807
PRODUCT LENGTH/DEPTH	132.1 mm
PRODUCT HEIGHT	115 mm
PRODUCT WIDTH	55 mm
PRODUCT WEIGHT	1.04 kg
CERTIFICATIONS	UL File No.: E29096 UL Category Control No.: NLDX CSA CSA Class No.: 2411-03, 3211-04 CSA File No.: 012528 IEC/EN 60947-4-1 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL CE
CATALOG NOTES	Also tested according to AC-3e.
GLOBAL CATALOG	104463



Product specification	S
NUMBER OF POLES	Three-pole
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	Does not apply, since the entire switchgear needs to

Resources	
CATALOGS	SmartWire-DT Catalog
	eaton-product-overview for-machinery-catalogue ca08103003zen-en-us.p
	Product Range Catalog Switching and protecting motors
CHARACTERISTIC CURVE	eaton-contactors- component-dilm- characteristic-curve- 003.eps
	eaton-contactors-short- time-loading-dilm- characteristic-curve.eps
DECLARATIONS OF	DA-DC-00004782.pdf
CONFORMITY	DA-DC-00004817.pdf
	eaton-contactors-dilm- dimensions-012.eps
	eaton-contactors-dilm-dimensions-002.eps
DRAWINGS	eaton-contactors- mounting-dilm- dimensions.eps
	eaton-contactors-dilm-3 drawing-011.eps
	eaton-general-ie-ready- dilm-contactor- standards.eps
ECAD MODEL	ETN.104463.edz
INSTALLATION INSTRUCTIONS	<u>IL03407033Z</u>
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	DA-CD-dil_m40_72
MCAD MODEL	DA-CS-dil m40 72
SYSTEM OVERVIEW	eaton-contactors-circuit breaker-dilmf-explosion drawing.eps
	eaton-contactors- mounting-dilmf-explosion

ASSEMBLIES be evaluated.  10.4 CLEARANCES AND CREEPAGE DISTANCES standard's requirements.  10.5 PROTECTION 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 RAND CONNECTIONS Is the panel builder's responsibility.  10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS PREQUENCY ELECTRIC STRENGTH Is the panel builder's responsibility.  10.9.3 IMPULSE Is the panel builder's responsibility.  10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL PITTED WITH: Built-in suppressor circuit POLLUTION DEGREE 3  AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION Screw terminals  AMBIENT OPERATING TEMPERATURE AMAX AMBIENT OPERATING TEMPERATURE AMAX AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MMX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MMX  AMBIENT STORAGE TEMPERATURE AMAX AMBIENT STORAGE AMBIENT STORAGE AMBIENT STORAGE AMAX AMBIENT STORAGE AMBIENT STORAGE AMAX AMBIENT ST	ACCELIANTICE	
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motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE 40 °C  (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE 40 °C  (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  -40 °C	POLLUTION DEGREE	3
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TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE 40 °C (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE -25 °C (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  -25 °C  -25 °C  -40 °C		reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces
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TEMPERATURE -25 °C (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  -40 °C	CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING	reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces Screw terminals 60 °C
TEMPERATURE - MAX  AMBIENT STORAGE TEMPERATURE - MIN  80 °C  -40 °C	CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE	reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces Screw terminals 60 °C  -25 °C
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ASSIGNED MOTOR 2 LID	CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE	reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  Screw terminals  60 °C  -25 °C  40 °C
<b>ASSIGNED MOTOR</b> 3 HP	CONNECTION  AMBIENT OPERATING TEMPERATURE - MAX  AMBIENT OPERATING TEMPERATURE - MIN  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX  AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN  AMBIENT STORAGE TEMPERATURE - MAX  AMBIENT STORAGE	reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces  Screw terminals  60 °C  -25 °C  40 °C  -25 °C

## wiring diagram-003.eps

POWER AT 115/120 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 POWER AT 230/240 V, 60 POWER AT 230/240 V, 60 HZ, 3-PHASE
POWER AT 200/208 V, 60 15 HP HZ, 3-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 10 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 20 HP
POWER AT 230/240 V, 60 10 HP HZ, 1-PHASE  ASSIGNED MOTOR POWER AT 230/240 V, 60 20 HP
<b>POWER AT 230/240 V, 60</b> 20 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 40 HP HZ, 3-PHASE
ASSIGNED MOTOR POWER AT 575/600 V, 60 50 HP HZ, 3-PHASE
CONVENTIONAL THERMAL CURRENT ITH 145 A (1-POLE, ENCLOSED)
CONVENTIONAL THERMAL CURRENT ITH 58 A (3-POLE, ENCLOSED)
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)
EQUIPMENT HEAT DISSIPATION, CURRENT- 9.9 W DEPENDENT PVID
HEAT DISSIPATION OW
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID  3.3 W
APPLICATION Contactors for Semiconductor Industries acc. to SEMI F47
PRODUCT CATEGORY Contactors
ELECTRICAL CONNECTION TYPE OF Screw connection MAIN CIRCUIT
VOLTAGE TYPE AC
NUMBER OF AUXILIARY CONTACTS (NORMALLY 0 CLOSED CONTACTS)
NUMBER OF AUXILIARY CONTACTS (NORMALLY 0 OPEN CONTACTS)

NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	42 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	42 V
DROP-OUT VOLTAGE	AC operated: 0.5 - 0.2 x UC, AC operated
OVERVOLTAGE CATEGORY	III
DUTY FACTOR	100 %
EMITTED INTERFERENCE	According to EN 60947-1
INTERFERENCE IMMUNITY	According to EN 60947-1
PICK-UP VOLTAGE	0.8 - 1.15 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	45 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
POWER CONSUMPTION, SEALING, 50 HZ	1.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1.5 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	80 A, Maximum motor rating (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	690 V
RATED OPERATIONAL CURRENT (IE) AT AC-1,	70 A
CORREINT (IL) AT AC-1,	

380 V, 400 V, 415 V	
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	50 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	32 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	21 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	21 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	21 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	21 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 660 V, 690 V	17 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	50 A
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	17 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	22 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	30 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	6 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	6.5 kW
RATED OPERATIONAL	10 kW

POWER AT AC-4, 380/400 V, 50 HZ	
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	11 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	12 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	13 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	14 kW
RATED OPERATIONAL POWER (NEMA)	29.8 kW
RESISTANCE PER POLE	1.86 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	1.3 W
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	50 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	45 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	250 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA)
SUITABLE FOR	Also motors with efficiency class IE3 SEMI F47, Magnet systems

SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	79 A (480V 60Hz 3phase, 277V 60Hz 1phase) 79 A (600V 60Hz 3phase, 347V 60Hz 1phase)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	30 HP, 480 V 60 Hz 3-ph, (UL/CSA) 40 HP, 600 V 60 Hz 3-ph, (UL/CSA) 41 A, 600 V 60 Hz 3-ph, (UL/CSA) 10 HP, 200 V 60 Hz 3-ph, (UL/CSA) 15 HP, 240 V 60 Hz 3-ph, (UL/CSA) 32.2 A, 200 V 60 Hz 3-ph, (UL/CSA) 42 A, 240 V 60 Hz 3-ph, (UL/CSA) 40 A, 480 V 60 Hz 3-ph, (UL/CSA)
SPECIAL PURPOSE RATING OF RESISTANCE AIR HEATING	79 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 79 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
SPECIAL PURPOSE RATING OF TUNGSTEN INCANDESCENT LAMPS	74 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 74 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	80 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	71 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	65 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	36 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	30 kW
ACTUATING VOLTAGE	RAC 48: 42 - 48 V 50/60 Hz
ALTITUDE	Max. 2000 m

OPERATING VOLTAGE AT AC, 50 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	690 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	230 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	690 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



## **Eaton Corporation plc**

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