Specifications



Photo is representative





Eaton 109882

Eaton Moeller® series DILMP Contactor, 4 pole, 80 A, 220 V 50 Hz, 240 V 60 Hz, AC operation

General specifications

PRODUCT NAME	Eaton Moeller® series DILMP 4-pole contactor	
CATALOG NUMBER	109882	
MODEL CODE	DILMP80(220V50HZ,240V60HZ)	
EAN	4015081094486	
PRODUCT LENGTH/DEPTH	132 mm	
PRODUCT HEIGHT	115 mm	
PRODUCT WIDTH	74 mm	
PRODUCT WEIGHT	1.04 kg	
CERTIFICATIONS	CSA UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211- 04 IEC/EN 60947-4-1 UL CSA File No.: 012528 UL 60947-4-1 CE CSA-C22.2 No. 60947-4-1-14 IEC/EN 60947 UL File No.: E29096 VDE 0660	
CATALOG NOTES	Contacts according to EN 50012	
GLOBAL CATALOG	109882	



Product specifications

PROTECTION OF

r roddet speemeddon		
NUMBER OF POLES	Four-pole	
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.	CATALOGS
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.	DRAWINGS
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.	ECAD MODE
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	Meets the product	MCAD MOD
ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	standard's requirements.	WIRING DIA
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	Does not apply, since the	

entire switchgear needs to

Resources

Product Range Catalog Switching and protecting motors

FALOGS

eaton-product-overviewfor-machinery-catalogueca08103003zen-en-us.pdf

SmartWire-DT Catalog

eaton-contactors-dilmpdimensions-002.eps

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AD MODEL ETN.109882.edz

TALLATION IL03407049Z TRUCTIONS WIN-WIN with push-in TALLATION VIDEOS technology DA-CD-dil mp63 80 AD MODEL DA-CS-dil_mp63_80

eaton-contactors-contact-RING DIAGRAMS dilem-wiring-diagram.eps

ASSEMBLIES	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	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
OPERATING FREQUENCY	5000 mechanical Operations/h (DC operated) 5000 mechanical Operations/h (AC operated)
POLLUTION DEGREE	3
CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
CONNECTION TO SMARTWIRE-DT	No
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
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	3 HP
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	15 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 1-PHASE	10 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	20 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	40 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	50 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	186 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	64 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	73 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	207 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	25.8 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	8.6 W
APPLICATION	Contactors for 4 pole

	electric consumers
PRODUCT CATEGORY	Contactors
PROTECTION	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
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	IP00
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
NUMBER OF CONTACTS (NORMALLY CLOSED) AS MAIN CONTACT	0
NUMBER OF MAIN CONTACTS (NORMALLY OPEN CONTACT)	4
RATED BREAKING CAPACITY AT 220/230 V	500 A
RATED BREAKING CAPACITY AT 380/400 V	500 A
RATED BREAKING CAPACITY AT 500 V	500 A
RATED BREAKING CAPACITY AT 660/690 V	296 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	220 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	220 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

DROP-OUT VOLTAGE	AC operated: 0.6 - 0.4 x UC, AC operated
OVERVOLTAGE CATEGORY	111
DUTY FACTOR	100 %
INTERFERENCE IMMUNITY	According to EN 60947-1
LIFESPAN, MECHANICAL	10,000,000 Operations (AC operated) 10,000,000 Operations (DC operated)
PICK-UP VOLTAGE	0.85 - 1.1 V AC/DC x Us 0.8 - 1.1 V AC x Uc
POWER CONSUMPTION, PICK-UP, 50 HZ	150 VA, Dual-frequency coil in a cold state and 1.0 x Us
SAFE ISOLATION	440 V AC, Between coil and contacts, According to EN 61140 440 V AC, Between the contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	150 VA, Dual-frequency coil in a cold state and 1.0 x Us 95 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
RESIDUAL CURRENT	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
SCREW SIZE	M6, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
POWER CONSUMPTION, SEALING, 50 HZ	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us
POWER CONSUMPTION, SEALING, 60 HZ	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us 16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
TERMINAL CAPACITY (STRANDED)	1 x (16 - 50) mm², Main cables 2 x (16 - 35) mm², Main cables
TERMINAL CAPACITY (COPPER BAND)	2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables

TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)2 × (0.75 - 2.5) mm², Main cables 2 × (2.5 - 25) mm², Main cablesSHOCK RESISTANCE10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Haif- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to incure cables 2 × (0.75 - 2.5) mm², Main cables 2 × (0.75 - 4.5) mm², Mai		
SHOCK RESISTANCEMechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 7g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 msTERMINAL CAPACITY (SOLID)2 x (2.5 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (0.75 - 4) mm², Control circuit cablesTIGHTENING COAQUITY VOLTAGE (US) AT DC - MAX30 A, Maximum motor rating (UL/CSA)RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 vRATED CONTROL SUPPLY VOLTAGE (UI)0 vRATED INSULATION COS PHI TO IEC/EN G0947)0 vRATED MAKING CAPACITY UP TO 6990 V (COS PHI TO IEC/EN G0947)700 A	(FLEXIBLE WITH	Control circuit cables 2 x (2.5 - 25) mm², Main cables 1 x (0.75 - 2.5) mm², Control circuit cables 1 x (2.5 - 35) mm², Main
TERMINAL CAPACITY (SOLID)cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (2.5 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cablesTERMINAL CAPACITY (SOLID/STRANDED AWG)l8 -14, Control circuit cables 1 2 - 2, Main CablesSWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)80 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE3.33 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, 	SHOCK RESISTANCE	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 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-
TERMINAL CAPACITY (SOLID/STRANDED AWG)cables 12 - 2, Main CablesSWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)80 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE3.3 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cablesRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN690 VRATED INSULATION VOLTAGE (UI)690 VRATED INSULATION VOLTAGE (UI)690 V		cables 2 x (0.75 - 2.5) mm², Control circuit cables 1 x (2.5 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control
80 A, Maximum motor rating (UL/CSA)TIGHTENING TORQUE3.3 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cablesRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED INSULATION CONTROL SUPPLY 		cables
TIGHTENING TORQUEMain cables 1.2 Nm, Screw terminals, Control circuit cablesRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN0 VRATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN690 VRATED INSULATION VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)700 ARATED OPERATIONAL CURRENT (IE) AT AC-1,80 A	(MAIN CONTACTS,	
VOLTAGE (US) AT DC - MAX 0 ∨ RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN 0 ∨ RATED INSULATION VOLTAGE (UI) 690 ∨ RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947) 700 A RATED OPERATIONAL CURRENT (IE) AT AC-1, 80 A	TIGHTENING TORQUE	Main cables 1.2 Nm, Screw terminals,
VOLTAGE (US) AT DC - MIN 0 V RATED INSULATION VOLTAGE (UI) 690 V RATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947) 700 A RATED OPERATIONAL CURRENT (IE) AT AC-1, 80 A	VOLTAGE (US) AT DC -	0 V
VOLTAGE (UI)690 VRATED MAKING CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)700 ARATED OPERATIONAL CURRENT (IE) AT AC-1,80 A	VOLTAGE (US) AT DC -	0 V
CAPACITY UP TO 690 V (COS PHI TO IEC/EN 60947)700 ARATED OPERATIONAL CURRENT (IE) AT AC-1,80 A		690 V
CURRENT (IE) AT AC-1, 80 A	CAPACITY UP TO 690 V (COS PHI TO IEC/EN	700 A
	CURRENT (IE) AT AC-1,	80 A

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, 400 V	40 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 110 V	80 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 220 V	80 A
RATED OPERATIONAL CURRENT (IE) AT DC-1, 60 V	80 A
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	80 A
RATED OPERATIONAL POWER AT AC-1, 220/230 V, 50 HZ	29 kW
RATED OPERATIONAL POWER AT AC-1, 240 V, 50 HZ	32 kW
RATED OPERATIONAL POWER AT AC-1, 380/400 V, 50 HZ	50 kW
RATED OPERATIONAL POWER AT AC-1, 415 V, 50 HZ	55 kW
RATED OPERATIONAL POWER AT AC-1, 440 V, 50 HZ	58 kW
RATED OPERATIONAL POWER AT AC-1, 500 V, 50 HZ	66 kW
RATED OPERATIONAL POWER AT AC-1, 690 V, 50	87 kW

HZ	
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, 380/400 V, 50 HZ	20 kW
RATED OPERATIONAL POWER (NEMA)	29.8 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	690 V
RESISTANCE PER POLE	1.9 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	4.1 W
STRIPPING LENGTH (CONTROL CIRCUIT CABLE)	10 mm
STRIPPING LENGTH (MAIN CABLE)	10 mm
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	18 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MIN	12 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	13 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MIN	8 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 250 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT	250/150 A, Class J, max.

RATING (HIGH FAULT AT 480 V)	Fuse, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	160 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	80 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	80 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	63 A gG/gL
SPECIAL PURPOSE RATING OF BALLAST ELECTRICAL DISCHARGE LAMPS	79 A (600V 60Hz 3phase, 347V 60Hz 1phase) 79 A (480V 60Hz 3phase, 277V 60Hz 1phase)
SPECIAL PURPOSE RATING OF ELEVATOR CONTROL	30 HP, 480 V 60 Hz 3-ph, (UL/CSA) 10 HP, 200 V 60 Hz 3-ph, (UL/CSA) 42 A, 240 V 60 Hz 3-ph, (UL/CSA) 15 HP, 240 V 60 Hz 3-ph, (UL/CSA) 40 HP, 600 V 60 Hz 3-ph, (UL/CSA) 32.2 A, 200 V 60 Hz 3-ph, (UL/CSA) 40 A, 480 V 60 Hz 3-ph, (UL/CSA) 41 A, 600 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, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 74 A, 480 V 60 Hz 3phase, 277 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)	76 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	69 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	220 V 50 Hz, 240 V 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:



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