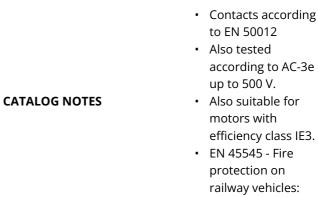
Eaton 274198

Eaton Moeller® series DILM Contactor, 380 V 400 V 265 kW, 2 N/O, 2 NC, 110 - 120 V 50/60 Hz, AC operation, Screw connection

PRODUCT NAME	Eaton Moeller® series DILM Contactor
CATALOG NUMBER	274198
PRODUCT LENGTH/DEPTH	216 mm
PRODUCT HEIGHT	219 mm
PRODUCT WIDTH	160 mm
PRODUCT WEIGHT	8.58 kg
COMPLIANCES	CE Marked
CERTIFICATIONS	IEC/EN 60947-4-1 VDE 0660 CSA Class No.: 3211-04 UL 60947-4-1 UL File No.: E29096 UL Category Control No.: NLDX UL/CSA CSA file No. 012528 North America (UL listed, CSA certified) EN 45545: Fire protection on railway vehicles IEC 61373: Vibration and shock, tested for category 1 class B CE marking
	Contacts according to EN 50012





Fire protection class of all plastics according to UL94: V-0 / plastic weight in total: 2.576 kg

 Conventional thermal current Ith of main contacts (1pole, open) at 60°

ACCESSORIES	Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
AMPERAGE RATING	500A
VOLTAGE RATING	110-120 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.
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

	eaton-contactors-
	component-dilm-
	characteristic-curve-
CHARACTERISTIC CURVE	<u>002.eps</u>
	eaton-contactors-
	component-dilm-
	<u>characteristic-curve.eps</u>
	<u>IL03406005Z</u>
	eaton-contactors-contact-
	dilm-wiring-diagram-
	<u>004.eps</u>
	eaton-contactors-
	mounting-dilm-3d-
	drawing-002.eps

	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:	Suppressor circuit in actuating electronics
FREQUENCY RATING	50-60 Hz
OPERATING FREQUENCY	2000 mechanical Operations/h (AC operated) 200 Operations/h
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,

	reversing, inching
CONNECTION	Screw terminals
AMBIENT OPERATING TEMPERATURE - MAX	60 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MAX	40 °C
AMBIENT OPERATING TEMPERATURE (ENCLOSED) - MIN	-40 °C
AMBIENT STORAGE TEMPERATURE - MAX	80 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 200/208 V, 60 HZ, 3-PHASE	150 HP
ASSIGNED MOTOR POWER AT 230/240 V, 60 HZ, 3-PHASE	200 HP
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	400 HP
ASSIGNED MOTOR POWER AT 575/600 V, 60 HZ, 3-PHASE	500 HP
CONVENTIONAL THERMAL CURRENT ITH (1-POLE, ENCLOSED)	1500 A
CONVENTIONAL THERMAL CURRENT ITH (3-POLE, ENCLOSED)	600 A
CONVENTIONAL THERMAL CURRENT ITH AT 55°C (3-POLE, OPEN)	682 A
CONVENTIONAL THERMAL CURRENT ITH OF MAIN CONTACTS (1- POLE, OPEN)	1625 A
EQUIPMENT HEAT DISSIPATION, CURRENT- DEPENDENT PVID	0 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	19.33 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 MAIN CIRCUIT	Rail connection
SCREWDRIVER SIZE	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
VOLTAGE TYPE	AC
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
OPERATING TEMPERATURE - MAX	60 °C
OPERATING TEMPERATURE - MIN	-40 °C
RATED BREAKING CAPACITY AT 1000 V	950 A
RATED BREAKING CAPACITY AT 220/230 V	5000 A
RATED BREAKING CAPACITY AT 380/400 V	5000 A
RATED BREAKING CAPACITY AT 500 V	5000 A
RATED BREAKING CAPACITY AT 660/690 V	5000 A

DUTY FACTOR	100 %
DUIT FACIUK	
ELECTROMAGNETIC COMPATIBILITY	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
LIFESPAN, MECHANICAL	7,000,000 Operations (AC operated)
PICK-UP VOLTAGE	0.85 - 1.1 V AC x Us
POWER CONSUMPTION, PICK-UP, 50 HZ	715 VA, Pull-in power, Coil in a cold state and 1.0 x Us 645 W, Pull-in power, Coil
SAFE ISOLATION	in a cold state and 1.0 x Us 1000 V AC, Between coil and contacts, According to EN 61140
POWER CONSUMPTION, PICK-UP, 60 HZ	645 W, Pull-in power, Coil in a cold state and 1.0 x Us 715 VA, Pull-in power, Coil in a cold state and 1.0 x Us
SCREW SIZE	M3.5, Terminal screw, Control circuit cables
SCREW SIZE	M10, Terminal screw, Main connections
POWER CONSUMPTION, SEALING, 50 HZ	
POWER CONSUMPTION,	connections 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state
POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION,	connections 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state
POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ	connections 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 500 mΩ (Admissible transitional contact resistance - of the external control circuit device when
POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ RESISTANCE	connections 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 500 mΩ (Admissible transitional contact resistance - of the external control circuit device when actuating A11) 307 A at up to 525 V (Individual compensation, three-phase capacitors, open) 177 A at 690 V (Individual compensation, three-
POWER CONSUMPTION, SEALING, 50 HZ POWER CONSUMPTION, SEALING, 60 HZ RESISTANCE RATED OPERATIONAL CURRENT (IE)	connections 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 4.6 W, Coil in a cold state and 1.0 x Us 7.3 VA, Coil in a cold state and 1.0 x Us 500 mΩ (Admissible transitional contact resistance - of the external control circuit device when actuating A11) 307 A at up to 525 V (Individual compensation, three-phase capacitors, open) 177 A at 690 V (Individual compensation, three-phase capacitors, open)

(AUXILIARY CONTACTS, GENERAL USE)	15 A, 600 V AC, (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 (COPPER BAND)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks
TERMINAL CAPACITY (FLEXIBLE WITH FERRULE)	1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
SHOCK RESISTANCE	10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Halfsinusoidal shock 10 ms
TERMINAL CAPACITY (SOLID)	1 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Control circuit cables
TERMINAL CAPACITY (SOLID/STRANDED AWG)	2/0 - 500 MCM, Main cables 18 - 14, Control circuit cables
TERMINAL CAPACITY (BUSBAR)	30 mm width, Main connection
TERMINAL CAPACITY (FLEXIBLE WITH CABLE LUG)	50 - 240 mm²
SWITCHING CAPACITY (MAIN CONTACTS, GENERAL USE)	550 A, Maximum motor rating (UL/CSA)
TERMINAL CAPACITY (STRANDED WITH CABLE LUG)	70 - 240 mm²
POWER CONSUMPTION	Control transformer with uk ≤ 10%
TIGHTENING TORQUE	1.2 Nm, Screw terminals,

	Control circuit cables 24 Nm, Main cable connection screw/bolt
WIDTH ACROSS FLATS	16 mm
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED INSULATION VOLTAGE (UI)	1000 V
RATED MAKING CAPACITY (COS PHI TO IEC/EN 60947)	5500 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 1000 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 220 V, 230 V, 240 V	500 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	500 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 440 V	500 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	500 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 660 V, 690 V	325 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 1000 V	95 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 220 V, 230 V, 240 V	360 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 400 V	360 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 440 V	360 A
RATED OPERATIONAL CURRENT (IE) AT AC-4, 500 V	360 A
RATED OPERATIONAL CURRENT (IE) AT AC-4,	260 A

660 V, 690 V	
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	500 A
RATED OPERATIONAL POWER AT AC-3, 1000 V, 50 HZ	132 kW
RATED OPERATIONAL POWER AT AC-3, 240 V, 50 HZ	170 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	250 kW
RATED OPERATIONAL POWER AT AC-3, 415 V, 50 HZ	290 kW
RATED OPERATIONAL POWER AT AC-4, 1000 V, 50 HZ	132 kW
RATED OPERATIONAL POWER AT AC-4, 220/230 V, 50 HZ	112 kW
RATED OPERATIONAL POWER AT AC-4, 240 V, 50 HZ	122 kW
RATED OPERATIONAL POWER AT AC-4, 380/400 V, 50 HZ	200 kW
RATED OPERATIONAL POWER AT AC-4, 415 V, 50 HZ	216 kW
RATED OPERATIONAL POWER AT AC-4, 440 V, 50 HZ	229 kW
RATED OPERATIONAL POWER AT AC-4, 500 V, 50 HZ	250 kW
RATED OPERATIONAL POWER AT AC-4, 660/690 V, 50 HZ	240 kW
RATED OPERATIONAL POWER (NEMA)	298 kW
RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX	1000 V
RESISTANCE PER POLE	0.089 mΩ
STATIC HEAT DISSIPATION, NON- CURRENT-DEPENDENT PVS	4.6 W

SWITCHING TIME (AC OPERATED, MAKE CONTACTS, CLOSING DELAY) - MAX	55 ms
SWITCHING TIME (AC OPERATED, MAKE CONTACTS, OPENING DELAY) - MAX	50 ms
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	600 A, max. CB, SCCR (UL/CSA) 30 kA, SCCR (UL/CSA) 800 A, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 100 kA, CB, SCCR (UL/CSA) 800/600 A, Class J, max. Fuse, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 800/600 A, Class J, max. Fuse, SCCR (UL/CSA)
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 1000 V	250 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 400 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 1 COORDINATION) AT 690 V	630 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 1000 V	200 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 400 V	500 A gG/gL
SHORT-CIRCUIT PROTECTION RATING (TYPE 2 COORDINATION) AT 690 V	500 A gG/gL
SPECIAL PURPOSE	3900 A, LRA 480 V 60 Hz 3-

RATING OF DEFINITE PURPOSE RATING	ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 635 A, FLA 480 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 520 A, FLA 600 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 3120 A, LRA 600 V 60 Hz 3- ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
OPERATING TEMPERATURE	-40° to 60°C
CONVENTIONAL THERMAL CURRENT ITH AT 40°C (3-POLE, OPEN)	800 A
CONVENTIONAL THERMAL CURRENT ITH AT 50°C (3-POLE, OPEN)	715 A
CONVENTIONAL THERMAL CURRENT ITH AT 60°C (3-POLE, OPEN)	650 A
RATED OPERATIONAL POWER AT AC-3, 440 V, 50 HZ	315 kW
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	355 kW
RATED OPERATIONAL POWER AT AC-3, 690 V, 50 HZ	300 kW
ACTUATING VOLTAGE	110 - 120 V 50/60 Hz
ALTITUDE	Max. 2000 m
OPERATING VOLTAGE AT AC, 50 HZ - MIN	110 V
OPERATING VOLTAGE AT AC, 50 HZ - MAX	120 V
OPERATING VOLTAGE AT AC, 60 HZ - MIN	110 V
OPERATING VOLTAGE AT AC, 60 HZ - MAX	120 V

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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