## DATASHEET - DILM80(110V50/60HZ)

Contactor, 3 pole, 380 V 400 V 37 kW, 110 V 50/60 Hz, AC operation, Screw terminals



Part no.

DILM80(110V50/60HZ) 239408

Product name	Eaton Moeller® series DILM contactor
Part no.	DILM80(110V50/60HZ)
EAN	4015082394080
Product Length/Depth	160 millimetre
Product height	170 millimetre
Product width	90 millimetre
Product weight	2.18 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 EN 60947-4-1 IEC 60947-4-1 UL 508 VDE UL UL Category Control No.: NLDX IEC/EN 60947-4-1 UL File No.: E29096 VDE 0660 CSA File No.: 012528 CSA IEC/EN 60947 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 CE CSA Class No.: 2411-03, 3211-04
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012
Application	Contactors for Motors
Degree of protection	IP00
Frame size	FS4
Lifespan, mechanical	10,000,000 Operations (AC operated) 7,000,000 Operations (Coil 50/60 Hz)
Operating frequency	3600 mechanical Operations/h (AC operated)
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Residual current	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
Resistance per pole	0.6 mΩ
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	AC
Shock resistance	7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main 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 when tabletop-mounted, 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- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
	Mar: 2000 m
Altitude	Max. 2000 m -25 °C
Ambient operating temperature - min	
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C 40 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 C 80 °C
Ambient storage temperature - max Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30
	Damp heat, constant, to IEC 60068-2-78
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacity (copper band)	2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables
Terminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables 1 x (10 - 70) mm <sup>2</sup> , Main cables 2 x (10 - 50) mm <sup>2</sup> , Main cables 2 x (0.75 - 2.5) mm <sup>2</sup> , Control circuit cables
Terminal capacity (solid)	1 x (0.75 - 4) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)	Single 83/0, double 82/0, Main cables 18 - 14, Control circuit cables
Terminal capacity (stranded)	1 x (16 - 70) mm², Main cables 2 x (16 - 50) mm², Main cables
Stripping length (main cable)	24 mm
Stripping length (control circuit cable)	10 mm
Screw size	M3.5, Terminal screw, Control circuit cables 5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables M10, Terminal screw, Main cables
Screwdriver size	2, Terminal screw, Control circuit cables, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 14 Nm, Screw terminals, Main cables
Rated breaking capacity at 220/230 V	800 A
Rated breaking capacity at 380/400 V	800 A
Rated breaking capacity at 500 V	800 A
Rated breaking capacity at 660/690 V	650 A
Rated operational current (le) at AC-1, 380 V, 400 V, 415 V	110 A
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	80 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	80 A
Rated operational current (le) at AC-3, 440 V	80 A
Rated operational current (le) at AC-3, 500 V	80 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	65 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	40 A
Rated operational current (Ie) at AC-4, 440 V	40 A
Rated operational current (Ie) at AC-4, 500 V	40 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	27 A
Rated operational current (Ie) at DC-1, 60 V	110 A
Rated operational current (le) at DC-1, 110 V	110 A
Rated operational current (Ie) at DC-1, 220 V	70 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	1120 A
Rated operational power at AC-3, 240 V, 50 Hz	27.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	37 kW
Rated operational power at AC-3, 415 V, 50 Hz	48 kW

Rated operational power at AC-3, 440 V, 50 Hz	51 kW
Rated operational power at AC-3, 500 V, 50 Hz	58 kW
Rated operational power at AC-3, 690 V, 50 Hz	63 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	11.5 kW
Rated operational power at AC-4, 240 V, 50 Hz	13 kW
Rated operational power at AC-4, 415 V, 50 Hz	24 kW
Rated operational power at AC-4, 440 V, 50 Hz	25 kW
Rated operational power at AC-4, 500 V, 50 Hz	29 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	26 kW
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit current rating (basic rating)	600 A, max. CB, SCCR (UL/CSA) 600 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 300/300 A, Class J, max. 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) 30 kA, CB, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	250 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	200 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	160 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	160 A gG/gL
Conventional thermal current ith (1-pole, enclosed)	200 A
Conventional thermal current ith (3-pole, enclosed)	80 A
Conventional thermal current ith at 55°C (3-pole, open)	94 A
Conventional thermal current ith at 60°C (3-pole, open)	90 A
Conventional thermal current ith of main contacts (1-pole, open)	225 A
Switching capacity (main contacts, general use)	125 A, Maximum motor rating (UL/CSA)
Arcing time	15 ms
Drop-out voltage	AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	328 VA, Dual-frequency coil in a cold state and 1.0 x Us 372 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	5.8 W, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	37.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 5.8 W, Dual-frequency coil in a cold state and 1.0 x Us 22.6 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Rated control supply voltage (Us) at AC, 50 Hz - min	110 V
Rated control supply voltage (Us) at AC, 50 Hz - max	110 V
Rated control supply voltage (Us) at AC, 60 Hz - min	110 V
Rated control supply voltage (Us) at AC, 60 Hz - max	110 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Switching time (AC operated, make contacts, closing delay) - min	14 ms
Switching time (AC operated, make contacts, closing delay) - max	20 ms
Switching time (AC operated, make contacts, opening delay) - min	9 ms
Switching time (AC operated, make contacts, opening delay) - max	14 ms
Assigned motor power at 115/120 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	25 HP

Assigned motor power at 230/240 V, 60 Hz, 1-phase	15 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	30 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	60 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	75 HP
Connection	Screw terminals
Connection to SmartWire-DT	No
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Safe isolation	690 V AC, Between the contacts, According to EN 61140
	690 V AC, Between coil and contacts, According to EN 61140
Special purpose rating of ballast electrical discharge lamps	100 A (480V 60Hz 3phase, 277V 60Hz 1phase) 100 A (600V 60Hz 3phase, 347V 60Hz 1phase)
Special purpose rating of definite purpose rating	80 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
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Special purpose rating of elevator control	25 HP, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 600 V 60 Hz 3-ph, (UL/CSA)
	20 HP, 200 V 60 Hz 3-ph, (UL/CSA)
	65 A, 480 V 60 Hz 3-ph, (UL/CSA) 62 A, 600 V 60 Hz 3-ph, (UL/CSA)
	50 HP, 480 V 60 Hz 3-ph, (UL/CSA)
	62.1 A, 200 V 60 Hz 3-ph, (UL/CSA) 68 A, 240 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of refrigeration control (CSA only)	420 A, LRA 600 V 60 Hz 3phase; (CSA)
	70 A, FLA 600 V 60 Hz 3phase; (CSA) 90 A, FLA 480 V 60 Hz 3phase; (CSA)
	540 A, LRA 480 V 60 Hz 3phase; (CSA)
Special purpose rating of resistance air heating	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
Special purpose ratios of tuggets - incoming and tuggets	100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Equipment heat dissipation, current-dependent Pvid	9 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	3 W
Rated operational current for specified heat dissipation (In)	80 A
Static heat dissipation, non-current-dependent Pvs	5.8 W
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. Meets the product standard's requirements.
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10.2.3.2 Verification of resistance of insulating materials to normal heat10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects10.2.4 Resistance to ultra-violet (UV) radiation10.2.5 Lifting10.2.6 Mechanical impact10.2.7 Inscriptions10.3 Degree of protection of assemblies10.4 Clearances and creepage distances10.5 Protection against electric shock10.6 Incorporation of switching devices and components10.7 Internal electrical circuits and connections10.8 Connections for external conductors10.9.2 Power-frequency electric strength10.9.3 Impulse withstand voltage10.9.4 Testing of enclosures made of insulating material10.10 Temperature rise	Meets the product standard's requirements.Meets the product standard's requirements.Meets the product standard's requirements.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the product standard's requirements.Does not apply, since the entire switchgear needs to be evaluated.Meets the panel builder's responsibility.Is the panel builder is responsibility.Is the panel builder's responsibility. <tr< td=""></tr<>

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 8.0**

Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)

Electric engineering, automation, process control engineering / Low-voltage switch	technology / Contacto	r (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])
Rated control supply voltage Us at AC 50HZ	V	110 - 110
Rated control supply voltage Us at AC 60HZ	V	110 - 110
Rated control supply voltage Us at DC	V	0 - 0
Voltage type for actuating		AC
Rated operation current le at AC-1, 400 V	А	110
Rated operation current le at AC-3, 400 V	А	80
Rated operation power at AC-3, 400 V	kW	37
Rated operation current le at AC-4, 400 V	А	40
Rated operation power at AC-4, 400 V	kW	20
Rated operation power NEMA	kW	44.7
Modular version		No
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of normally closed contacts as main contact		0
Number of normally open contacts as main contact		3