DATASHEET - DILM50(230V50HZ,240V60HZ)

Contactor, 3 pole, 380 V 400 V 22 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals



Part no.	DILM50(230V50HZ,240V60HZ) 277830
EL Number (Norway)	4130447

Product name Part no.	Eaton Moeller® series DILM contactor DILM50(230V50HZ,240V60HZ)
EAN	4015082778309
Product Length/Depth	132.1 millimetre
	115 millimetre
Product height	
Product width	55 millimetre
Product weight	0.872 kilogram
Compliances	CE Marked
Certifications	CSA Std. C22.2 No. 14-05 IEC 60947-4-1 UL 508 EN 60947-4-1 UL Listed CSA Certified IEC/EN 60947 CSA-C22.2 No. 60947-4-1-14 UL Category Control No.: NLDX UL 60947-4-1 CSA Class No.: 2411-03, 3211-04 IEC/EN 60947-4-1 UL File No.: E29096 CE CSA File No.: 012528 UL CSA VDE 0660
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	FS3
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	5000 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
Resistance per pole	1.9 mΩ
Suitable for	Also motors with efficiency class IE3
Туре	Full voltage non-reversing contactor
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
Voltage type	AC
Shock resistance	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 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, 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 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
Altitude	Max. 2000 m
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	40 °C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminals and the second s	Screw terminals
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)	1 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (0.75 - 35) mm ² , Main cables 2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (0.75 - 2.5) mm ² , Main cables
Terminal capacity (solid)	2 x (0.75 - 16) mm², Main cables 1 x (0.75 - 4) mm², Control circuit cables 1 x (0.75 - 16) mm², Main cables 2 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables Single 14 - 1, double 14 - 2, Main cables
Terminal capacity (stranded)	2 x (16 - 35) mm², Main cables 1 x (16 - 50) mm², Main cables
Stripping length (main cable)	14 mm
Stripping length (control circuit cable)	10 mm
Screw size	M6, Terminal screw, Main cables M3.5, Terminal screw, Control circuit cables
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	3.3 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
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	320 A
Rated operational current (le) at AC-1, 380 V, 400 V, 415 V	80 A
Rated operational current (le) 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, 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 (Ie) at DC-1, 60 V	60 A
Rated operational current (Ie) at DC-1, 110 V	50 A
Rated operational current (Ie) at DC-1, 220 V	45 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	700 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-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
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 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 voltage (Ue) at AC - max	690 V
Short-circuit current rating (basic rating) Short-circuit current rating (high fault at 480 V)	10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 250 A, max. 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)	30/100 kA, Fuse, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, 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
Conventional thermal current ith (1-pole, enclosed)	145 A
Conventional thermal current ith (3-pole, enclosed)	58 A
Conventional thermal current ith at 55°C (3-pole, open)	68 A
Conventional thermal current ith at 60°C (3-pole, open)	65 A
Conventional thermal current ith of main contacts (1-pole, open)	162 A
Switching capacity (main contacts, general use)	80 A, Maximum motor rating (UL/CSA)
Arcing time	10 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	22 kW
Power consumption, pick-up, 50 Hz	149 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	178 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 4.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	19 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.1 W, 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	230 V
Rated control supply voltage (Us) at AC, 50 Hz - max	230 V 240 V
Rated control supply voltage (Us) at AC, 60 Hz - min	240 V 240 V
Rated control supply voltage (Us) at AC, 60 Hz - max Poted control supply voltage (Us) at AC, 60 Hz - max	240 V
Rated control supply voltage (Us) at DC - min	
Rated control supply voltage (Us) at DC - max	12 ms
Switching time (AC operated, make contacts, closing delay) - min	12 ms 18 ms
Switching time (AC operated, make contacts, closing delay) - max	8 ms
Switching time (AC operated, make contacts, opening delay) - min Switching time (AC operated, make contacts, opening delay) - max	a ms 13 ms
owncoming time (אס טוףפומנפט, maxe contacts, טוףפוווווץ טפומץ) - MdX	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP

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Assigned nour power at 602400 V. 68 its 2 phase 48 49 4 Assigned nour power at 602400 V. 68 its 2 phase 19 P Connection 100 Connection 100 Remainer at analising contracts (contrally doen centers) 100 Selection at analising (contracts (contrally doen centers) 100 Selection at analising (contracts (contrally doen centers) 100 Selection at analising (contracts (contrally doen centers) 100 </td <td></td> <td></td>		
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Special purpose rating of elevator control PA (480/ 061 zphase, 277/ 061: 1 phase) Special purpose rating of elevator control Special purpose rating of resistance air heating Special purpose rating of resistance air heating PA 400 V 01 + 2 m, UUCSAN 10 HP 20 V 01 + 2 m, UUCSAN 24, 240 V 01 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 1 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 01 + 2 m, 220 V 241 + 2 m, UUCSAN 24, 440 V 241 + 2 m, 240 + 2		440 V AC, Detween the contacts, According to EN 01140
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1 A, 600 V 90 H2-3pt, (UUCSA) 91 H4 90 V 01 H2-3pt, (UUCSA) 91 H4 90 V 01 H2-3pt, (UUCSA) 92 ecial purpose rating of resistance air heating 79 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 79 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 74 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 74 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 74 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 93 A, 600 V 90 H2-3pt, (UUCSA) 92 ecial purpose rating of transitence air heating 93 A, 600 V 90 H2-3pt, (UUCSA) 93 H2 doi: 100 H2-3pt, 100 H2-3	Special purpose rating of ballast electrical discharge lamps	
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Special purpose rating of resistance air heating A 4, 80 V 6H 2, 3ph; (ULCSA)		10 HP, 200 V 60 Hz 3-ph, (UL/CSA)
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Technical data ETIM 8.0

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

8000000		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])		
V	230 - 230	
V	240 - 240	
V	0 - 0	
	AC	
А	80	
А	50	
kW	22	
А	21	
kW	10	
kW	29.8	
	No	
	0	
	0	
	Screw connection	
	0	
	3	
	h technology / Contar V V V A A KW A	