DATASHEET - DILM80(230V50HZ,240V60HZ)



Contactor, 3 pole, 380 V 400 V 37 kW, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals



Part no.

DILM80(230V50HZ,240V60HZ)

EL Number

239402	
4134048	

(Norway) **General specifications** Product name Eaton Moeller® series DILM contactor DILM80(230V50HZ.240V60HZ) Part no. 4015082394028 FAN Product Length/Depth 160 millimetre Product height 170 millimetre Product width 90 millimetre 2.18 kilogram Product weight IEC 60947-4-1 Certifications UL Listed **CSA** Certified EN 60947-4-1 CSA File No.: 012528 UL Category Control No.: NLDX UL 60947-4-1 IEC/EN 60947-4-1 IEC/EN 60947 CSA CE UL UL File No.: E29096 VDE 0660 CSA Class No.: 2411-03, 3211-04 CSA-C22.2 No. 60947-4-1-14 Product Tradename DILM Product Type Contactor Product Sub Type None **Catalog Notes** Contacts according to EN 50012 **General information** Application Contactors for Motors Screw terminals Connection Degree of protection **IP00** Frame size

FS4 10,000,000 Operations (AC operated) 3600 mechanical Operations/h (AC operated) III 3 Contactors Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) 8000 V AC Rated impulse withstand voltage (Uimp) 1 mA (with actuation of A1 - A2 by the electronics with "0" signal) 0.6 mΩ Also motors with efficiency class IE3 Full voltage reversing medium contactor 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 AC 5 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

10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms

Suitable for

Type

Lifespan, mechanical

Operating frequency

Overvoltage category Pollution degree

Product category

Residual current

Resistance per pole

Utilization category

Protection

Voltage type

Ambient conditions, mechanical

Shock resistance

05/30/2024

7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, 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, Halfsinusoidal shock 10 ms

	sinusoidal shock 10 ms
Climatic environmental conditions	
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
Electro magnetic compatibility	
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacities	
Terminals	Screw terminals
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)	2 x (0.75 - 2.5) mm ² , Control circuit cables 2 x (10 - 50) mm ² , Main cables 1 x (0.75 - 2.5) mm ² , Control circuit cables 1 x (10 - 70) mm ² , Main 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)	18 - 14, Control circuit cables Single 83/0, double 82/0, Main 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 M10, Terminal screw, Main cables 5 mm AF, Hexagon socket-head spanner, 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	14 Nm, Screw terminals, Main cables 1.2 Nm, Screw terminals, Control circuit cables
Electrical rating	
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 (Ie) at AC-1, 380 V, 400 V, 415 V	110 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	80 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	80 A
Rated operational current (Ie) at AC-3, 440 V	80 A
Rated operational current (Ie) 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 (Ie) 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 rating	
Short-circuit current rating (basic rating)	10 kA, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 600 A, max. Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 250 A, max. CB, 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) 300/300 A, Class J, max. Fuse, SCCR (UL/CSA) 30 kA, CB, 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	
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	
Switching capacity (main contacts, general use)	125 A, Maximum motor rating (UL/CSA)
Magnet system	
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	37 kW
Power consumption, pick-up, 50 Hz	310 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	345 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	5.8 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 26 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	30 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, 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
Rated control supply voltage (Us) at AC, 60 Hz - min	240 V
Rated control supply voltage (Us) at AC, 60 Hz - max	240 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

Motor rating	
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
Communication	
Connection to SmartWire-DT	No
Contacts	
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Safety	
Safe isolation	690 V AC, Between coil and contacts, According to EN 61140
	690 V AC, Between the contacts, According to EN 61140
Special purpose ratings	
Special purpose rating of ballast electrical discharge lamps	100 A (600V 60Hz 3phase, 347V 60Hz 1phase) 100 A (480V 60Hz 3phase, 277V 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) 480 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Special purpose rating of elevator control	20 HP, 200 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) 65 A, 480 V 60 Hz 3-ph, (UL/CSA) 25 HP, 240 V 60 Hz 3-ph, (UL/CSA) 60 HP, 600 V 60 Hz 3-ph, (UL/CSA) 50 HP, 480 V 60 Hz 3-ph, (UL/CSA) 62 A, 600 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of refrigeration control (CSA only)	420 A, LRA 600 V 60 Hz 3phase; (CSA) 540 A, LRA 480 V 60 Hz 3phase; (CSA) 70 A, FLA 600 V 60 Hz 3phase; (CSA) 90 A, FLA 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) 100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
Design verification	
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.
	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements. Meets the product standard's requirements. Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting	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.
10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact	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.
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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.

Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Power contactor, AC switching (E	Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])			
Rated control supply voltage AC 50 Hz	V	230 - 230	
Rated control supply voltage AC 60 Hz	V	240 - 240	
Rated control supply voltage DC	V	0 - 0	
Voltage type for actuating		AC	
Number of normally closed contacts as main contact		0	
Number of normally open contacts as main contact		3	
Type of electrical connection of main circuit		Screw connection	
Operating voltage AC 50 Hz	V	230 - 690	
Operating voltage AC 60 Hz	V	230 - 690	
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	
Number of auxiliary contacts as normally open contact		0	
Number of auxiliary contacts as normally closed contact		0	
Modular version		No	
Width	mm	90	
Height	mm	170	
Depth	mm	160	