Contactor, 3 pole, 380 V 400 V 6.8 kW, 1 N/O, 1 NC, 110 V 50 Hz, 120 V 60 Hz, AC operation, Push in terminals



Part no. DILM14-11(110V50HZ,120V60HZ)-PI 199275

Product name	Eaton Moeller® series DILM contactor
Part no.	DILM14-11(110V50HZ,120V60HZ)-PI
EAN	4015081973590
Product Length/Depth	115 millimetre
Product height	85 millimetre
Product width	45 millimetre
Product weight	0.441 kilogram
Certifications	IEC/EN 60947 VDE 0660 CSA certified UL File No.: E29096 UL Listed CE marking CSA File No.: 012528 UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Also tested according to AC-3e.
Fitted with:	Mirror contact
Application	Contactors for Motors
Degree of protection	IP20
Frame size	FS2
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 actuat from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	AC
Shock resistance	5 g, N/C auxiliary contact, 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 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 6.5 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 8 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 2 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °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
Terminal capacity (flexible with ferrule)	$1 \times (1 - 6) \text{ mm}^2$ $2 \times (0.5 - 1.5) \text{ mm}^2$, Main cables $2 \times (1 - 4) \text{ mm}^2$ $1 \times (0.5 - 1.5) \text{ mm}^2$, Control circuit cables
Terminal capacity (flexible)	2 x (1-6) mm ² 1 x (1 - 10) mm ² 1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
Terminal capacity (solid)	$1 \times (0.5 - 0.25) \text{ mm}^2$ $2 \times (0.5 - 2.5) \text{ mm}^2$, Control circuit cables $2 \times (1 - 6) \text{ mm}^2$ $1 \times (1 - 6) \text{ mm}^2$
Terminal capacity (solid/stranded AWG)	20 - 14 18 - 8, Main cables
Screwdriver size	3×0.5 mm, Terminal screw 3.0×0.5 mm, Terminal screw
Rated breaking capacity at 220/230 V	120 A
Rated breaking capacity at 380/400 V	120 A
Rated breaking capacity at 500 V	100 A
Rated breaking capacity at 660/690 V	70 A
Rated operational current (le)	14 A at AC-3, 220/230 V
Rated operational current (le) at AC-1, 380 V, 400 V, 415 V	45 A
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	14 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	14 A
Rated operational current (Ie) at AC-3, 440 V	14 A
Rated operational current (Ie) at AC-3, 500 V	14 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	12 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	10 A
Rated operational current (le) at AC-4, 440 V	10 A
Rated operational current (Ie) at AC-4, 500 V	10 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	8 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	144 A
Rated operational power at AC-3, 240 V, 50 Hz	3.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	7 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	2.5 kW
Rated operational power at AC-4, 240 V, 50 Hz	2.6 kW
Rated operational power at AC-4, 415 V, 50 Hz	4.8 kW
Rated operational power at AC-4, 440 V, 50 Hz	5.3 kW
Rated operational power at AC-4, 500 V, 50 Hz	6 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	6.7 kW
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit current rating (high fault at 480 V)	65 kA, CB, SCCR (UL/CSA) 32 A, max. CB, SCCR (UL/CSA)
Conventional thermal current ith (1-pole, enclosed)	80 A
Conventional thermal current ith (3-pole, enclosed)	32 A
Conventional thermal current ith at 55°C (3-pole, open)	37 A
Conventional thermal current ith of main contacts (1-pole, open)	88 A

rcing time	10 ms
Outy factor	100 %
Pick-up voltage	0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	52 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	67 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	7.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	8.7 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 2.1 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	110 V
Rated control supply voltage (Us) at AC, 50 Hz - max	110 V
Rated control supply voltage (Us) at AC, 60 Hz - min	120 V
Rated control supply voltage (Us) at AC, 60 Hz - max	120 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	16 ms
Switching time (AC operated, make contacts, closing delay) - max	22 ms
Switching time (AC operated, make contacts, opening delay) - min	8 ms
Switching time (AC operated, make contacts, opening delay) - max	14 ms
Assigned motor power at 115/120 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	2 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	10 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	10 HP
Connection	Push in terminals
Connection to SmartWire-DT	No
Number of contacts (normally closed contacts)	1
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	1
lumber of auxiliary contacts (normally open contacts)	1
Safe isolation Safe isolation	400 V AC, Between the contacts, According to EN 61140 400 V AC, Between coil and contacts, According to EN 61140
leat dissipation capacity Pdiss	0 W
0.2.2 Corrosion resistance	Meets the product standard's requirements.
0.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
0.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
0.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
0.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
0.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
0.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
0.2.7 Inscriptions	Meets the product standard's requirements.
0.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
0.4 Clearances and creepage distances	Meets the product standard's requirements.
0.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
0.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
0.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
0.8 Connections for external conductors	Is the panel builder's responsibility.
0.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
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10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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.

Technical data ETIM 8.0

Technical data ethivi 6.0			
Low-voltage industrial components (EG000017) / Power contactor, AC switching	ng (EC000066)		
Electric engineering, automation, process control engineering / Low-voltage s	witch technology /	Contactor	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	120 - 120
Rated control supply voltage Us at DC		V	0 - 0
Voltage type for actuating			AC
Rated operation current le at AC-1, 400 V		Α	45
Rated operation current le at AC-3, 400 V		Α	14
Rated operation power at AC-3, 400 V		kW	5.5
Rated operation current le at AC-4, 400 V		Α	7
Rated operation power at AC-4, 400 V		kW	3
Rated operation power NEMA		kW	0
Modular version			No
Number of auxiliary contacts as normally open contact			1
Number of auxiliary contacts as normally closed contact			1
Type of electrical connection of main circuit			Spring clamp connection
Number of normally closed contacts as main contact			0
Number of normally open contacts as main contact			3