Contactor, 3 pole, 380 V 400 V 4 kW, 1 N/O, 230 V 50 Hz, 240 V 60 Hz, AC operation, Screw terminals



Part no. DILM9-10(230V50HZ,240V60HZ)

276690

EL Number (Norway) 4130286

(1401Way)	
Product come	Eaton Moeller® series DILM contactor
Product name	
Part no.	DILM9-10(230V50HZ,240V60HZ)
EAN	4015082766900
Product Length/Depth	75 millimetre
Product height	68 millimetre
Product width	45 millimetre
Product weight	0.24 kilogram
Certifications	UL Category Control No.: NLDX CSA Class No.: 2411-03, 3211-04 CSA IEC/EN 60947-4-1 CSA File No.: 012528 IEC/EN 60947 CSA-C22.2 No. 60947-4-1-14 UL 60947-4-1 UL UL File No.: E29096 VDE 0660 CE
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012
Application	Contactors for Motors
Degree of protection	IP20
Frame size	FS1
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	9000 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	2.5 mΩ
Suitable for	Also motors with efficiency class IE3
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	3.4 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 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 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/C 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

unbient operating temperature (enclosed) - min unbient operating temperature (enclosed) - max	25 °C
Ampient operating temperature (enclosed) - max	40.00
	40 °C
Ambient storage temperature - min	40 °C
umbient storage temperature - max	80 °C
limatic proofing	Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
mitted interference	According to EN 60947-1
nterference immunity	According to EN 60947-1
erminal capacity (flexible with ferrule)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
erminal capacity (solid)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 4) mm ²
erminal capacity (solid/stranded AWG)	Single 18 - 10, double 18 - 14
tripping length (main cable)	10 mm
Ctripping length (control circuit cable)	10 mm
crew size	M3.5, Terminal screw
crewdriver size	0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver 2, Terminal screw, Pozidriv screwdriver
ightening torque	1.2 Nm, Screw terminals
lated breaking capacity at 220/230 V	90 A
lated breaking capacity at 380/400 V	90 A
lated breaking capacity at 500 V	70 A
lated breaking capacity at 660/690 V	50 A
lated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	22 A
lated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	9 A
lated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	9 A
lated operational current (Ie) at AC-3, 440 V	9 A
ated operational current (Ie) at AC-3, 500 V	7 A
ated operational current (Ie) at AC-3, 660 V, 690 V	5 A
lated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	6 A
lated operational current (Ie) at AC-4, 440 V	6 A
lated operational current (Ie) at AC-4, 500 V	5 A
lated operational current (Ie) at AC-4, 660 V, 690 V	4.5 A
lated operational current (Ie) at DC-1, 60 V	20 A
lated operational current (Ie) at DC-1, 110 V	20 A
lated operational current (Ie) at DC-1, 220 V	15 A
lated insulation voltage (Ui)	690 V
lated making capacity up to 690 V (cos phi to IEC/EN 60947)	112 A
lated operational power at AC-3, 240 V, 50 Hz	3 kW
lated operational power at AC-3, 380/400 V, 50 Hz	4 kW
lated operational power at AC-3, 415 V, 50 Hz	5.5 kW
lated operational power at AC-3, 440 V, 50 Hz	5.5 kW
lated operational power at AC-3, 500 V, 50 Hz	4.5 kW
lated operational power at AC-3, 690 V, 50 Hz	4.5 kW
lated operational power at AC-4, 220/230 V, 50 Hz	1.5 kW
lated operational power at AC-4, 240 V, 50 Hz lated operational power at AC-4, 415 V, 50 Hz	1.6 kW 2.8 kW
lated operational power at AC-4, 415 V, 50 Hz	2.8 KW
lated operational power at AC-4, 440 V, 50 Hz	2.8 kW
lated operational power at AC-4, 500 V, 50 Hz	2.8 kW
lated operational power at AC-4, 000/090 V, 50 H2	690 V

Short-circuit current rating (basic rating)	60 A, max. CB, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 25 A, Class RK5/ 20 A Class J, max. Fuse, SCCR (UL/CSA) 16 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 25 A, Class RK5/20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	35 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	16 A gG/gL
Conventional thermal current ith (1-pole, enclosed)	45 A
Conventional thermal current ith (3-pole, enclosed)	18 A
Conventional thermal current ith at 55°C (3-pole, open)	21 A
Conventional thermal current ith at 60°C (3-pole, open)	20 A
Conventional thermal current ith of main contacts (1-pole, open)	50 A
Switching capacity (main contacts, general use)	20 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10 A, 600 V AC, (UL/CSA)
,	1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (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, pick-up, 50 Hz	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.4 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	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	15 ms
Switching time (AC operated, make contacts, closing delay) - max	21 ms
Switching time (AC operated, make contacts, opening delay) - min	9 ms
Switching time (AC operated, make contacts, opening delay) - max	18 ms
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.5 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	1.5 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	5 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	7.5 HP
Connection	Scraw terminals
Connection Connection to SmartWire.DT	Screw terminals
Connection to SmartWire-DT	No
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	0

observed.	Number of auxiliary contacts (normally open contacts)	1
Special purpose rating of ballest electrical discharge loanges Special purpose rating of ballest electrical discharge loanges Special purpose rating of definite purpose rating Special purpose rating of definite purpose rating of retrigeration control (SSA only) Special		
Special purpose rating of definite purposes rating Special purpose rating of definite purposes rating Special purpose rating of delevator control Special purpose rating of refrigeration centrol (CSA enly) Special purpose rating of resistance air heating Special purpose rating of resistance air heating Special purpose rating of tresistance air heating Special purpose rating of resistance air heating Special purpose rating of tresistance air heating Special purpose rating of tr	Safe isolation	
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73 A. 2016 VP IR-3-Ph, IUUCSA) 31P-R-80 VP R-3-Ph, IUUCSA) 31P-R-80 VP R-3-Ph, IUUCSA) 32P-R-80 VP R-3-Ph, IUUCSA) 3	Special purpose rating of definite purpose rating	
Special purpose rating of resistance air heating Special purpose rating of resistance air heating Special purpose rating of resistance air heating Special purpose rating of tungsten incandescent lamps A A80 V 80 Hz 2phase, 277 V 60 Hz 1phase, ULUCSA) 18 A, 800 V 90 Hz 2phase, 277	Special purpose rating of elevator control	7.8 Å, 200 V 60 Hz 3-ph, (UL/CSÅ) 3 HP, 480 V 60 Hz 3-ph, (UL/CSÅ) 6.8 A, 240 V 60 Hz 3-ph, (UL/CSÅ) 6.1 A, 600 V 60 Hz 3-ph, (UL/CSÅ) 2 HP, 200 V 60 Hz 3-ph, (UL/CSÅ) 5 HP, 600 V 60 Hz 3-ph, (UL/CSÅ)
Special purpose rating of tungsten incandescent lamps 18 A, 600 v 60 Hz 3phase, 347 v 60 Hz 1phase, (LUCSA) 14 A, 600 v 60 Hz 3phase, 347 v 60 Hz 1phase, (LUCSA) 14 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, (LUCSA) 15 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, (LUCSA) 16 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, (LUCSA) 17 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, (LUCSA) 18 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, LUCSA 18 A, 600 v 60 Hz 3phase, 277 v 60 Hz 1phase, LUCSA 18 A, 600 v 60 hz 1	Special purpose rating of refrigeration control (CSA only)	60 A, LRA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 480 V 60 Hz 3phase; (CSA)
Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss OW Rated operational current for specified heat dissipation (in) Static heat dissipation, current-dependent Pvid Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Static heat dissipation, one-current-dependent Pvis Rated operational current for specified heat dissipation (in) Rated operational current for specified heat dissipation (in) Rated dissipation (accurrent for specified heat dissipation) Reats the product standard's requirements. Reats	Special purpose rating of resistance air heating	
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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 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 Is the panel builder's responsibility. 10.9.2 Power-frequency electric strength Is 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 10.10 Temperature rise 10.11 Short-circuit rating Lis the panel builder's responsibility. The specifications for the switchgear must be observed. 10.12 Electromagnetic compatibility 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	10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function	

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 / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])				
Rated control supply voltage Us at AC 50HZ	V	230 - 230		
Rated control supply voltage Us at AC 60HZ	V	240 - 240		
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	22
Rated operation current le at AC-3, 400 V	Α	9
Rated operation power at AC-3, 400 V	kW	4
Rated operation current le at AC-4, 400 V	Α	6
Rated operation power at AC-4, 400 V	kW	2.5
Rated operation power NEMA	kW	3.7
Modular version		No
Number of auxiliary contacts as normally open contact		1
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