DATASHEET - DILM12-10(110V50HZ,120V60HZ)

Contactor, 3 pole, 380 V 400 V 5.5 kW, 1 N/O, 110 V 50 Hz, 120 V 60 Hz, AC operation, Screw terminals



Part no.	DILM12-10(110V50HZ,120V60HZ)
	276827
EL Number	4130320
(Norway)	

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Product Sub Type Contactor Product Sub Type None Bidbally Markeable Yes Application Contactors for Motors Application P20 Prane size P20000 Operations (AC operated) Operating frequency Bidbally Markeable Overoutings category III Pollution degree Si Protection Si Protection Si Resistance per pole Si Sublable for Ac2-4 Normal AC induction motors: starting, languing, severaing, inching AC-1-Normal AC induction motors: starting, severaing, inching aC-1-Normal AC induction motors: s	Certifications	CSA File No.: 012528 CE UL File No.: E29096 UL Category Control No.: NLDX VDE 0660 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL CSA Class No.: 2411-03, 3211-04 IEC/EN 60947
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Application Contactors for Motors Degree of protection P20 Frame size F31 Lifespan, mechanical 0000,000 Operations (AC operated) Operating frequency 900 mechanical Operations (AC operated) Overvoltage category III Pollution degree 3 Protection Stote transform of EN 80274 Restance per pole 8000 V AC Resistance per pole 8000 V AC Resistance per pole 25 Suitable for 8000 V AC Vultization category Also motors with efficiency class IE3 Vultization category Also motors with efficiency class IE3 Suitable for Also motors with efficiency class IE3 Vultization category Also motors with efficiency class IE3 Suitable for Also motors with efficiency class IE3 Vultization category Also motors with efficiency class IE3 Suitable for Non-motors estarting, plugping, reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping	Product Sub Type	None
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Operating frequency9000 mechanical Operations/h (AC operated)Overvoltage categoryIIPolution degree3Product categoryContactorsProtectionFringer and back-of-hand proof, Protection against direct contact when actuated fringer and back-of-hand proof, Protection against direct contact when actuatedReted impulse withstand voltage (Uimp)8000 00 V ACResistance per pole2.5Suitable forAsis motors with efficiency class IE3Utilization categoryAc-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Nor-induction motors: starting, switch off during running AC-1: Nor-induction motors: starting, switch off during running AC-1: Nor-induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting to EC/EN 60068-2-27, Half- sing suidal shock 10 msShock resistance7 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g.	Frame size	FS1
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AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnacesVoltage typeACShock resistanceT 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 g, N/C 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 g, N/C 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 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3 4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3 4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, 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 3 4 g, N/C auxiliary 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 3 4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms Max. 2000 m	Suitable for	Also motors with efficiency class IE3
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AltitudeSinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 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 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, 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 3.4 g, N/C auxiliary 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 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 msAltitudeMax. 2000 m	Voltage type	AC
AltitudeSinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 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 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, 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 3.4 g, N/C auxiliary 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 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 msAltitudeMax. 2000 m		
	Shock resistance	sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 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 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
	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, 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 (flexible with ferrule)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2,5) mm ²
Terminal capacity (solid)	2 x (0.75 - 2.5) mm² 1 x (0.75 - 4) mm²
Terminal capacity (solid/stranded AWG)	Single 18 - 10, double 18 - 14
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	10 mm
Screw size	M3.5, Terminal screw
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals
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 (Ie) at AC-1, 380 V, 400 V, 415 V	22 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	12 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	12 A
Rated operational current (Ie) at AC-3, 440 V	12 A
Rated operational current (Ie) at AC-3, 500 V	10 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	7 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	7 A
Rated operational current (Ie) at AC-4, 440 V	7 A
Rated operational current (Ie) at AC-4, 500 V	6 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	5 A
Rated operational current (Ie) at DC-1, 60 V	20 A
Rated operational current (Ie) at DC-1, 110 V	20 A
Rated operational current (Ie) at DC-1, 220 V	15 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	4 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-3, 440 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	7 kW
Rated operational power at AC-3, 690 V, 50 Hz	6.5 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	2 kW
Rated operational power at AC-4, 240 V, 50 Hz	2.2 kW
Rated operational power at AC-4, 415 V, 50 Hz	3.4 kW
Rated operational power at AC-4, 440 V, 50 Hz	3.6 kW
Rated operational power at AC-4, 500 V, 50 Hz	3.5 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	4.4 kW
Rated operational voltage (Ue) at AC - max	690 V

Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	25 A, Class RK5/ 45 A Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	25 A, Class RK5/45 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, 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	25 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	20 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)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
	10 ma
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	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.4 VA, 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	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	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	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	Screw terminals
Connection to SmartWire-DT	No
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	1

Safe isolation	400 V AC, Between coil and contacts, According to EN 61140 400 V AC, Between the contacts, According to EN 61140
Special purpose rating of ballast electrical discharge lamps	20 A (600V 60Hz 3phase, 347V 60Hz 1phase)
	20 A (480V 60Hz 3phase, 277V 60Hz 1phase)
Special purpose rating of definite purpose rating	72 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 12 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Special purpose rating of elevator control	7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 6.8 A, 240 V 60 Hz 3-ph, (UL/CSA) 9 A, 600 V 60 Hz 3-ph, (UL/CSA) 2 HP, 240 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of refrigeration control (CSA only)	60 A, LRA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA)
Special purpose rating of resistance air heating	20 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 20 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.3 W
Rated operational current for specified heat dissipation (In)	12 A
Static heat dissipation, non-current-dependent Pvs	1.4 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.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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.
10.8 Connections for external conductors	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	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

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	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	А	22	

Rated operation current le at AC-3, 400 V	A	12
Rated operation power at AC-3, 400 V	kW	5.5
Rated operation current le at AC-4, 400 V	A	7
Rated operation power at AC-4, 400 V	kW	3
Rated operation power NEMA	kW	7.4
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