DATASHEET - DILM225A/22(RAC24)



Contactor, 380 V 400 V 110 kW, 2 N/O, 2 NC, RAC 24: 24 V 50/60 Hz, AC operation, Screw connection



Part no. DILM225A/22(RAC24)

139544

EL Number

4134284

(Norway)	
General specifications	
Product name	Eaton Moeller® series DILM Contactor
Part no.	DILM225A/22(RAC24)
EAN	4015081363223
Product Length/Depth	158 millimetre
Product height	190 millimetre
Product width	140 millimetre
Product weight	3.54 kilogram
Compliances	Contact Manufacturer
Certifications	UL File No.: E29096 CSA File No.: 2389068 CE UL 60947-4-1 UL Category Control No.: NLDX CSA UL VDE 0660 IEC/EN 60947 CSA-C22.2 No. 60947-4-1-14 CSA Class No.: 3211-04 IEC/EN 60947-4-1
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012 Also tested according to AC-3e up to 500 V. Also suitable for motors with efficiency class IE3.
General information	
Accessories	Fitting options auxiliary contacts: on the side: 2 x DILM1000-XHI(V)11-SI; 2 x DILM1000-XHI111-SA
Application	Contactors for Motors
Connection	Screw terminals
Degree of protection	IP00
Electromagnetic compatibility	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional noise suppression.
Fitted with:	Suppressor circuit in actuating electronics
Lifespan, electrical	100,000 Operations (at Condensor operation)
Lifespan, mechanical	10,000,000 Operations (AC operated)
Operating frequency	200 Operations/h 3000 mechanical Operations/h (AC operated)
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Shock resistance	8 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, Half-sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
Voltage type	AC

Climatic environmental conditions	
Altitude	Max. 2000 m
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	0°C
Ambient operating temperature (enclosed) - min	-40 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	2° 08
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (busbar)	32 mm width, Main connection
Terminal capacity (copper band)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks
Terminal capacity (flexible with cable lug)	50 - 185 mm²
Terminal capacity (flexible with ferrule)	$2 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables $1 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables
Terminal capacity (solid)	1 x (0.75 - 2.5) mm², Control circuit cables 2 x (0.75 - 2.5) mm², Control circuit cables
Terminal capacity (solid/stranded AWG)	2/0 - 250 MCM, Main cables 18 - 14, Control circuit cables
Terminal capacity (stranded with cable lug)	70 - 185 mm²
Width across flats	16 mm
Screw size	M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main connections
Screwdriver size	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Tightening torque	1.2 Nm, Screw terminals, Control circuit cables 24 Nm, Main cable connection screw/bolt
Electrical rating	
Inrush current	Max. 30 x le (peak)
Rated breaking capacity at 220/230 V	2250 A
Rated breaking capacity at 380/400 V	2250 A
Rated breaking capacity at 500 V	2250 A
Rated breaking capacity at 660/690 V	2250 A
Rated breaking capacity at 1000 V	760 A
Rated insulation voltage (Ui)	1000 V
Rated making capacity (cos phi to IEC/EN 60947)	2700 A
Rated operational current (le)	220 A at up to 525 V (Individual compensation, three-phase capacitors, open) 133 A at 690 V (Individual compensation, three-phase capacitors, open)
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	356 A
Rated operational current (le) at AC-3, 220 V, 230 V, 240 V	225 A
Rated operational current (le) at AC-3, 380 V, 400 V, 415 V	225 A
Rated operational current (Ie) at AC-3, 440 V	225 A
Rated operational current (Ie) at AC-3, 500 V	225 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	160 A
Rated operational current (Ie) at AC-3, 1000 V	76 A
Rated operational current (le) at AC-4, 220 V, 230 V, 240 V	164 A
Rated operational current (le) at AC-4, 440 V	164 A
Rated operational current (Ie) at AC-4, 500 V	164 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	120 A
Rated operational current (le) at AC-4, 1000 V	55 A
Rated operational power at AC-3, 240 V, 50 Hz	75 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	110 kW
Rated operational power at AC-3, 415 V, 50 Hz	132 kW
Rated operational power at AC-3, 440 V, 50 Hz	138 kW
Rated operational power at AC-3, 500 V, 50 Hz	160 kW
Rated operational power at AC-3, 690 V, 50 Hz	150 kW
Rated operational power at AC-3, 1000 V, 50 Hz	108 kW

Rated operational power at AC-4, 220/230 V, 50 Hz	51 kW
Rated operational power at AC-4, 240 V, 50 Hz	54 kW
Rated operational power at AC-4, 415 V, 50 Hz	96 kW
Rated operational power at AC-4, 440 V, 50 Hz	102 kW
Rated operational power at AC-4, 500 V, 50 Hz	116 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	110 kW
Rated operational voltage (Ue) at AC - max	1000 V
Rated operational power at AC-4, 1000 V, 50 Hz	77 kW
Safe isolation	1000 V AC, Between coil and contacts, According to EN 61140
Special purpose rating of definite purpose rating	280 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 1680 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 336 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 2016 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Short-circuit rating	
Short-circuit current rating (basic rating)	600 A, max. CB, SCCR (UL/CSA) 700 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	600 A, Class J, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	50 kA, CB, SCCR (UL/CSA) 350 A, max. CB, SCCR (UL/CSA) 600 A, Class J, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 1000 V	200 A gG/gL
Short-circuit protection rating (type 1 coordination) at 400 V	400 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	315 A gG/gL
Short-circuit protection rating (type 2 coordination) at 1000 V	160 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	315 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	250 A gG/gL
Conventional thermal current Ith	
Conventional thermal current ith (1-pole, enclosed)	688 A
Conventional thermal current ith (3-pole, enclosed)	275 A
Conventional thermal current ith at 55°C (3-pole, open)	329 A
Conventional thermal current ith of main contacts (1-pole, open)	788 A
Switching capacity	
Switching capacity (main contacts, general use)	250 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	15 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)
Magnet system	
Drop-out voltage	AC operated: 0.25 x US max - 0.6 x US min, AC operated AC operated: 0.2 x US max - 0.4 x US min, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.15 V AC x Us
Power consumption	110 kW
Power consumption, pick-up, 50 Hz Power consumption, pick-up, 60 Hz	210 VA, Pull-in power, Coil in a cold state and 1.0 x Us 180 W, Pull-in power, Coil in a cold state and 1.0 x Us 210 VA, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	180 W, Pull-in power, Coil in a cold state and 1.0 x Us 2.1 W, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	2.6 VA, Coil in a cold state and 1.0 x Us 2.1 W, Coil in a cold state and 1.0 x Us
	2.6 VA, Coil in a cold state and 1.0 x Us
Rated control supply voltage (Us) at AC, 50 Hz - min	24 V
Rated control supply voltage (Us) at AC, 50 Hz - max	24 V
Rated control supply voltage (Us) at AC, 60 Hz - min	24 V
Rated control supply voltage (Us) at AC, 60 Hz - max	24 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 contracts, opening delay) - max Motor rating Assigned motor power at 200/280 V, 60 Hz, 3-phase Assigned motor power at 200/280 V, 60 Hz, 3-phase Assigned motor power at 200/280 V, 60 Hz, 3-phase Assigned motor power at 375/600 V, 60 Hz, 3-phase Contacts Number of auxiliary contacts (normally closed contacts) Number of auxiliary contacts (normally closed contacts) Number of contacts (normally closed contacts) 2 Number of contacts (normally closed contacts) 2 Number of contacts (normally closed contacts) 2 Design verification Equipment hear dissipation current-dependent Pvid Hear dissipation capachy Pdiss Based operational current for specified heat dissipation (In) Static heat dissipation, non-urrent-dependent Pvis Rated operational current for specified heat dissipation (In) 225 A Static heat dissipation on resistance 102.21 Verification of termal stability of exclosures 102.22 Verification of resistance of insulating materials to normal heat: 102.23 Verification of resistance of insulating materials to normal heat: 102.24 Serification of resistance of insulating materials to normal heat: 102.25 Lifting Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. 102.26 Lifting Does not apply, since the entire switchgear needs to be evaluated. 102.76 Inscriptions 103 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 104 Clearances and creepage distances 105 Protection against electric shock 106 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 107 Internal electrical circuits and connections 108 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 109 Power-frequency electric stending 109 Degree of protection of assemblies 109 Degree of protection of assemblies 109 Degree of protection of assemblies 109 Degree of protec		
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Assigned motor power at 230/240 V, 60 Hz, 3-phase Assigned motor power at 450/240 V, 60 Hz, 3-phase Assigned motor power at 450/240 V, 60 Hz, 3-phase Contacts Number of auxiliary contacts (normally closed contacts) Number of oracits formally open contacts) 2 Number of contacts (normally open contacts) 2 Number of contacts formally open contacts 3 Number of contacts formally open contacts) 2 Number of contacts formally open contacts 3 Number of contacts formally open contacts 4 Number of contacts formally open contacts 3 Number of contacts formally open contacts 4 Number of contacts formally open contacts 4 Number of contacts formally open contacts 5 Number of contacts formally open contacts 4 Number of contacts formally open contacts 5 Number of contacts formally open contacts 6 Number of contacts formally open contacts 7 Number of contac	Motor rating	
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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 9.0

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@ss13-27-37-10-03 [AAB718020]) 24 - 24 Rated control supply voltage AC 50 Hz Rated control supply voltage AC 60 Hz ٧ 24 - 24 Rated control supply voltage DC 0 - 0 AC Voltage type for actuating 0 Number of normally closed contacts as main contact Number of normally open contacts as main contact 3 Type of electrical connection of main circuit Rail connection Operating voltage AC 50 Hz ٧ 24 24 Operating voltage AC 60 Hz

Rated operation current le at AC-1, 400 V	А	356
Rated operation current le at AC-3, 400 V	А	225
Rated operation power at AC-3, 400 V	kW	110
Rated operation current le at AC-4, 400 V	А	164
Rated operation power at AC-4, 400 V	kW	90
Rated operation power NEMA	kW	111
Number of auxiliary contacts as normally open contact		2
Number of auxiliary contacts as normally closed contact		2
Modular version		No
Width	mm	140
Height	mm	190
Depth	mm	158