DATASHEET - DILEM-10(240V50HZ)



Contactor, 240 V 50 Hz, 3 pole, 380 V 400 V, 4 kW, Contacts N/O = Normally open= 1 N/O, Screw terminals, AC operation



Part no.

DILEM-10(240V50HZ) 010032

Product name	Eaton Moeller® series DILEM Mini contactor
Part no.	DILEM-10(240V50HZ)
EAN	4015080100324
Product Length/Depth	52 millimetre
Product height	52 millimetre
Product width	45 millimetre
Product weight	0.17 kilogram
Certifications	CSA CSA-C22.2 No. 14-05 CSA Class No.: 3211-04 UL Category Control No.: NLDX IEC/EN 60947 UL CE UL 508 VDE 0660 CSA File No.: 012528 IEC/EN 60947-4-1 UL File No.: E29096
Product Tradename	DILEM
Product Type	Mini contactor
Product Sub Type	None
Public Consumption	Yes
Product Family Description	ES-PMCC-ICP-Eaton DILE Mini contactors
Globally Marketable	Yes
Features	Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contacts to EN 60947-5-1 appendix L
Fitted with:	Auxiliary contact
Application	Mini Contactors for Motors and Resistive Loads
Degree of protection	IP20
Lifespan, mechanical	7,000,000 Operations (Coil 50/60 Hz) 200,000 Operations (at 240 V, AC-15) 150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A) 10,000,000 Operations
Mounting position	As required (except vertical with terminals A1/A2 at the bottom)
Operating frequency	9000 mechanical Operations/h
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)	5000 V AC
Shock resistance	20 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanica according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanica according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 8 g, N/O auxiliary contact, Basic unit without auxiliary contact module, Mechani according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 20 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanica according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
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
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	50 °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
Terminal capacity (flexible with ferrule)	2 x (0.75 - 1.5) mm² 1 x (0.75 - 1.5) mm²
Terminal capacity (solid)	1 x (0.75 - 2.5) mm² 2 x (0.75 - 2.5) mm²
Terminal capacity (solid/stranded AWG)	18 - 14
Stripping length (main cable)	8 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	90 A
Rated breaking capacity at 380/400 V	90 A
Rated breaking capacity at 500 V	64 A
Rated operational power at AC-3, 240 V, 50 Hz	2.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	4 kW
Rated operational power at AC-3, 415 V, 50 Hz	4.3 kW
Rated breaking capacity at 660/690 V	42 A
Rated making capacity up to 440 V (cos phi to IEC/EN 60947)	110 A
Rated operational power at AC-4, 220/230 V, 50 Hz	1.5 kW
Rated operational power at AC-4, 240 V, 50 Hz	1.8 kW
Rated operational power at AC-4, 415 V, 50 Hz	3.1 kW
Rated operational power at AC-4, 440 V, 50 Hz	3.3 kW
Rated operational power at AC-4, 500 V, 50 Hz	3 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	3 kW
Rated operational voltage (Ue) at AC - max	690 V
Rated insulation voltage (Ui)	690 V
Rated operational current (le)	2.5 A at 24 V, DC L/R \le 15 ms (with 1 contact in series) 2.5 A at 60 V, DC L/R \le 15 ms (with 2 contacts in series) 1.5 A at 100 V, DC L/R \le 15 ms (with 3 contacts in series) 0.5 A at 220 V, DC L/R \le 15 ms (with 3 contacts in series)
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	22 A
Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V	6 A
Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V	3A
Rated operational current (Ie) at AC-15, 500 V	1.5 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	9 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	9 A
Rated operational current (Ie) at AC-3, 440 V	9 A
Rated operational current (Ie) at AC-3, 500 V	64 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	48 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	6.6 A
Rated operational current (Ie) at AC-4, 440 V	6.6 A
Rated operational current (Ie) at AC-4, 500 V	5 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	34 A
Rated operational current (Ie) at DC-1, 110 V	20 A
Rated operational current (Ie) at DC-1, 12 V	20 A
Rated operational current (Ie) at DC-1, 220 V	20 A

Rated operational current (Ie) at DC-1, 24 V	20 A			
Rated operational current (Ie) at DC-1, 60 V	20 A			
Safe isolation	300 V AC, Between coil and contacts, According to EN 61140			
	300 V AC, Between coil and contacts, According to EN 61140 300 V AC, Between the contacts, According to EN 61140 300 V AC, Between auxiliary contacts, According to EN 61140			
Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA)			
Short-circuit protection	10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding 6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without weldin			
Short-circuit protection rating (type 1 coordination) at 500 V	20 A gG/gL			
Short-circuit protection rating (type 2 coordination) at 500 V	10 A gG/gL			
Conventional thermal current ith (1-pole, enclosed)	40 A			
	16 A			
Conventional thermal current ith at F502 (2 action acces)				
Conventional thermal current ith at 55°C (3-pole, open)	19 A			
Conventional thermal current ith of auxiliary contacts (1-pole, open)	10 A			
Conventional thermal current ith of main contacts (1-pole, open)	50 A			
Switching capacity (main contacts, general use)	15 A, Maximum motor rating (UL/CSA)			
Switching capacity (auxiliary contacts, general use)	10 A, 600 V AC, (UL/CSA) 0.5 A, 250 V DC, (UL/CSA)			
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)			
Arcing time	12 ms at 690 V AC			
Changeover time	16 - 21 ms			
Duty factor	100 %			
Pick-up voltage	0.8 - 1.1 V AC x Uc (voltage tolerance - single-voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz) 1.1 V AC x Uc (voltage tolerance - dual frequency coil 50/60 Hz)			
Power consumption, pick-up, 50 Hz	22 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 25 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz			
Power consumption, pick-up, 60 Hz	25 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 22 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz			
Power consumption, sealing, 50 Hz	1.8 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz 4.6 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz			
Power consumption, sealing, 60 Hz	1.8 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz			
Rated control supply voltage (Us) at AC, 50 Hz - min	240 V			
Rated control supply voltage (Us) at AC, 50 Hz - max	240 V			
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V			
Rated control supply voltage (Us) at AC, 60 Hz - max	0 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	21 ms			
Switching time (AC operated, make contacts, opening delay) - min	8 ms			
Switching time (AC operated, make contacts, opening delay) - max	18 ms			
Switching time (AC operated, N/O, with auxiliary contact module, closing delay)	45 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	2 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

5 HP

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10.3 Degree of protection of assemblies Image: Constant of the entire switch of the entir	10.2.6 Mechanical impact	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. 10.10 Temperature rise Is the panel builder's responsibility. 10.11 Short-circuit rating 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	10.2.7 Inscriptions	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 Is the panel builder's responsibility. 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	10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
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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 The device meets the requirements, provided the information in the instruction	10.10 Temperature rise	
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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 engineeri	g / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss10.0.1-27-37-10-03 [AAB718015])

Electric engineering, automation, process conditionengineering / Low-voltage switc	in technology / Con		
Rated control supply voltage Us at AC 50HZ	V		240 - 240
Rated control supply voltage Us at AC 60HZ	V		0 - 0
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	А		9
Rated operation power at AC-3, 400 V	kV	N	4
Rated operation current le at AC-4, 400 V	А		6.6
Rated operation power at AC-4, 400 V	kV	N	3
Rated operation power NEMA	kV	N	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