Contactor, 4 pole, 63 A, 230 V 50/60 Hz, AC operation



Part no. DILMP63(230V50/60HZ) 109854

Product name	Foton Moollon® series DII MD Contacts
Product name	Eaton Moeller® series DILMP Contactor
Part no.	DILMP63(230V50/60HZ)
EAN Park of 1/2 of 1	4015081094226
Product Length/Depth	132 millimetre
Product height	115 millimetre
Product width	74 millimetre
Product weight	1.04 kilogram
Certifications	UL 60947-4-1 UL Category Control No.: NLDX CSA File No.: 012528 UL CSA-C22.2 No. 60947-4-1-14 VDE 0660 CSA Class No.: 2411-03, 3211-04 IEC/EN 60947-4-1 IEC/EN 60947 UL File No.: E29096 CSA CE
Product Tradename	DILMP
Product Type	Contactor
Product Sub Type	None
Globally Marketable	Yes Contacts according to EN 50012
Application	Contactors for 4 pole electric consumers
Degree of protection	IP00
ifespan, mechanical	10,000,000 Operations (AC operated) 10,000,000 Operations (DC operated)
Operating frequency	5000 mechanical Operations/h (DC operated) 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
Residual current	1 mA (with actuation of A1 - A2 by the electronics with "0" signal)
Resistance per pole	1.9
Jtilization category	AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces
/oltage 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
Altitude	Max. 2000 m
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature - max Ambient operating temperature (enclosed) - min	25°C
	40 °C
Ambient operating temperature (enclosed) - max	40 C

Ambient storage temperature - max Climatic proofing	Damp heat, constant, to IEC 60068-2-3
	Damp heat, cyclic, to IEC 60068-2-30
Ferminal capacity (copper band)	2 x (6 x 9 x 0.8) mm (Number of segments x width x thickness), Main cables
Terminal capacity (copper band) Ferminal capacity (flexible with ferrule)	$2 \times (6 \times 9 \times 0.8)$ mm (Number of segments x width x thickness), Main cables $1 \times (0.75 - 1.5)$ mm ²
erminal capacity (nexible with terrule)	2 x (0.75 - 1.5) mm ²
Ferminal capacity (flexible)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
Ferminal capacity (solid)	1 x $(0.75 - 4)$ mm ² , Control circuit cables 2 x $(0.75 - 4)$ mm ² , Control circuit cables 1 x $(2.5 - 16)$ mm ² , Main cables 2 x $(2.5 - 16)$ mm ² , Main cables 1 x $(0.75 - 2.5)$ mm ²
Ferminal capacity (solid/stranded AWG)	18 - 14, Control circuit cables 12 - 2, Main Cables
Ferminal capacity (stranded)	2 x (16 - 35) mm², Main cables 1 x (16 - 50) mm², Main cables
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	10 mm
Screw size	M3.5, Terminal screw, Control circuit cables M6, Terminal screw, Main cables
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Fightening torque	1.2 Nm, Screw terminals, Control circuit cables 3.3 Nm, Screw terminals, Main cables
Rated breaking capacity at 220/230 V	400 A
Rated breaking capacity at 380/400 V	400 A
Rated breaking capacity at 500 V	400 A
Rated breaking capacity at 660/690 V	250 A
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	63 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	40 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	40 A
Rated operational current (Ie) at AC-3, 440 V	40 A
Rated operational current (Ie) at AC-3, 500 V	40 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	25 A
Rated operational current (Ie) at DC-1, 60 V	63 A
Rated operational current (le) at DC-1, 110 V	63 A
Rated operational current (Ie) at DC-1, 220 V	63 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	560 A
Rated operational power at AC-1, 220/230 V, 50 Hz	23 kW
Rated operational power at AC-1, 240 V, 50 Hz	25 kW
Rated operational power at AC-1, 380/400 V, 50 Hz	39 kW
Rated operational power at AC-1, 415 V, 50 Hz	43 kW
Rated operational power at AC-1, 440 V, 50 Hz	46 kW
Rated operational power at AC-1, 500 V, 50 Hz	52 kW
Rated operational power at AC-1, 690 V, 50 Hz	68 kW
Rated operational power at AC-3, 240 V, 50 Hz	13.5 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	18.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	24 kW
Rated operational power at AC-3, 440 V, 50 Hz	25 kW
Rated operational power at AC-3, 500 V, 50 Hz	28 kW
Rated operational power at AC-3, 690 V, 50 Hz	23 kW
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit current rating (basic rating)	250 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA)

Short-circuit current rating (high fault at 600 V)	65 kA, CB, SCCR (UL/CSA) 100 A, max. CB, SCCR (UL/CSA) 30 kA, CB, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA) 250 A, max. CB, SCCR (UL/CSA) 250/150 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	125 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	80 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	63 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	50 A gG/gL
Conventional thermal current ith (1-pole, enclosed)	146 A
Conventional thermal current ith (3-pole, enclosed)	50 A
Conventional thermal current ith at 55°C (3-pole, open)	58 A
Conventional thermal current ith at 60°C (3-pole, open)	54 A
Conventional thermal current ith of main contacts (1-pole, open)	162 A
Switching capacity (main contacts, general use)	63 A, Maximum motor rating (UL/CSA)
Drop-out voltage	AC operated: 0.6 - 0.4 x UC, AC operated
Duty factor	100 %
Pick-up voltage	0.85 - 1.1 V AC/DC x Us 0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	150 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	150 VA, Dual-frequency coil in a cold state and 1.0 x Us 95 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	4.1 W, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	16 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.1 W, Dual-frequency coil in a cold state and 1.0 x Us
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	230 V
Rated control supply voltage (Us) at AC, 60 Hz - max	230 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	12 ms
Switching time (AC operated, make contacts, closing delay) - max	18 ms
Switching time (AC operated, make contacts, opening delay) - min	8 ms
Switching time (AC operated, make contacts, opening delay) - max	13 ms
A	O UD
Assigned motor power at 115/120 V, 60 Hz, 1-phase	3 HP 10 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase Assigned motor power at 230/240 V, 60 Hz, 1-phase	7.5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-pnase Assigned motor power at 230/240 V, 60 Hz, 3-phase	7.5 HP 15 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase Assigned motor power at 460/480 V, 60 Hz, 3-phase	30 HP
Assigned motor power at 460/460 V, 60 Hz, 3-phase Assigned motor power at 575/600 V, 60 Hz, 3-phase	40 HP
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Connection	Screw terminals
Connection to SmartWire-DT	No
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	0
Safe isolation	440 V AC, Between the contacts, According to EN 61140 440 V AC, Between coil and contacts, According to EN 61140
Special purpose rating of ballast electrical discharge lamps	79 A (480V 60Hz 3phase, 277V 60Hz 1phase) 79 A (600V 60Hz 3phase, 347V 60Hz 1phase)
Special purpose rating of elevator control	7.5 HP, 200 V 60 Hz 3-ph, (UL/CSA) 30 HP, 600 V 60 Hz 3-ph, (UL/CSA)

	25 HP, 480 V 60 Hz 3-ph, (UL/CSA) 28 A, 240 V 60 Hz 3-ph, (UL/CSA) 32 A, 600 V 60 Hz 3-ph, (UL/CSA) 34 A, 480 V 60 Hz 3-ph, (UL/CSA) 10 HP, 240 V 60 Hz 3-ph, (UL/CSA) 25.3 A, 200 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of resistance air heating	79 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 79 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	74 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 74 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Equipment heat dissipation, current-dependent Pvid	16.5 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	5.5 W
Rated operational current for specified heat dissipation (In)	63 A
Static heat dissipation, non-current-dependent Pvs	4.1 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 Resists 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]) ٧ 230 - 230 Rated control supply voltage Us at AC 50HZ 230 - 230 Rated control supply voltage Us at AC 60HZ ٧ ٧ 0 - 0 Rated control supply voltage Us at DC AC Voltage type for actuating Rated operation current le at AC-1, 400 V Α 63 Rated operation current le at AC-3, 400 V Α 40 Rated operation power at AC-3, 400 V kW 18.5 Rated operation current le at AC-4, 400 V Α 25 kW 12 Rated operation power at AC-4, 400 V Rated operation power NEMA kW 22 Modular version No Number of auxiliary contacts as normally open contact 0 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