Contactor, 3 pole, 380 V 400 V 5.5 kW, 1 N/O, 220 V 50/60 Hz, AC operation, Push in terminals



Part no. DILM12-10(220V50/60HZ)-PI 199651

Product name	Eaton Moeller® series DILM contactor
Part no.	DILM12-10(220V50/60HZ)-PI
EAN	4015081983520
Product Length/Depth	75 millimetre
Product height	68 millimetre
Product width	45 millimetre
Product weight	0.225 kilogram
Certifications	IEC/EN 60947 VDE 0660
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	At maximum permissible ambient temperature (open.) 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 actua from front (EN 50274)
Rated impulse withstand voltage (Uimp)	6000 V AC
Suitable for	Also motors with efficiency class IE3
Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running
Voltage type	AC
Shock resistance	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 10 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 whe tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 whe tabletop-mounted, Half-sinusoidal shock 10 ms
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)	1 x (0.5 - 1.5) mm ² , Control circuit cables 2 x (0.5 - 1.5) mm ² , Main cables
Terminal capacity (flexible)	1 x (0.5 - 2.5) mm ² 2 x (0.5 - 2.5) mm ²
Terminal capacity (solid)	1 x (0.5 - 0.25) mm ² 2 x (0.5 - 2.5) mm ² , Control circuit cables
Terminal capacity (solid/stranded AWG)	20 - 14
Stripping length (main cable)	10 mm
Screwdriver size	3.0 x 0.5 mm, Terminal screw
Screwuriver Size	3 x 0.5 mm, Terminal screw
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-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 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 of main contacts (1-pole, open)	50 A
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	25 VA, Dual-frequency coil in a cold state and 1.0 x Us 27 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	25 VA, Dual-frequency coil in a cold state and 1.0 x Us 27 VA, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us 1.2 W, Dual-frequency coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	4.2 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 3.3 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 1.2 W, Dual-frequency coil in a cold state and 1.0 x Us 1.4 W, Dual-frequency coil in a cold state and 1.0 x Us
Rated control supply voltage (Us) at AC, 50 Hz - min	220 V
Rated control supply voltage (Us) at AC, 50 Hz - max	220 V
Rated control supply voltage (Us) at AC, 60 Hz - min	220 V
Rated control supply voltage (Us) at AC, 60 Hz - max	220 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
Connection	Push in 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 the contacts, According to EN 61140 400 V AC, Between coil and contacts, According to EN 61140

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]) ٧ 220 - 220 Rated control supply voltage Us at AC 50HZ Rated control supply voltage Us at AC 60HZ ٧ 220 - 220 Rated control supply voltage Us at DC ٧ 0 - 0 AC Voltage type for actuating Rated operation current le at AC-1, 400 V Α 22 Rated operation current le at AC-3, 400 $\rm V$ Α 12 kW Rated operation power at AC-3, 400 V 5.5 7 Rated operation current le at AC-4, 400 V Α Rated operation power at AC-4, 400 V kW 3 kW Rated operation power NEMA 0 Modular version No Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally closed contact Type of electrical connection of main circuit Spring clamp connection Number of normally closed contacts as main contact 0 Number of normally open contacts as main contact 3