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Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Screw terminals, DILM40 - DILM170

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Eaton Moeller® series DILM Replacement coil, Tool-less plug connection, RAC 440: 380 - 440 V 50/60 Hz, AC, For use with: DILM115, DILM150, DILM170

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General specifications

Product Name

Eaton Moeller® series DILMP 4-pole contactor

Catalog Number

109905
Model Code
DILMP125(RAC240)
EAN
4015081094714
Product Length/Depth
160 mm
Product Height
170 mm
Product Width
122 mm
Product Weight
2.73 kg
Certifications
CSA File No.: 012528
CSA-C22.2 No. 60947-4-1-14
CE
CSA
UL File No.: E29096
UL
VDE 0660
UL 60947-4-1
UL Category Control No.: NLDX
IEC/EN 60947
IEC/EN 60947-4-1
CSA Class No.: 2411-03, 3211-04
Catalog Notes
Contacts according to EN 50012

Product specifications

Terminal capacity (flexible with ferrule)
1 x (0.75 - 1.5) mm²
2 x (0.75 - 1.5) mm²
Rated operational current for specified heat dissipation (In)
125 A
10.11 Short-circuit rating
Is the panel builder's responsibility. The specifications for the switchgear must be observed.
Rated operational power at AC-1, 380/400 V, 50 Hz
78 kW
Rated operational power at AC-3, 380/400 V, 50 Hz
37 kW
Conventional thermal current ith (3-pole, enclosed)
100 A
Rated operational power at AC-4, 380/400 V, 50 Hz
28 kW
Terminal capacity (copper band)
2 x (6 x 16 x 0.8) mm (Number of segments x width x thickness), Main cables
Rated control supply voltage (Us) at AC, 50 Hz - min
190 V
Conventional thermal current ith at 60°C (3-pole, open)
108 A
10.4 Clearances and creepage distances
Meets the product standard's requirements.
Number of contacts (normally closed) as main contact
0
Short-circuit current rating (high fault at 480 V)
250 A, max. CB, SCCR (UL/CSA)
30/100 kA, Fuse, SCCR (UL/CSA)
300/300 A, Class J, max. Fuse, SCCR (UL/CSA)
65 kA, CB, SCCR (UL/CSA)
Conventional thermal current ith at 55°C (3-pole, open)
110 A
Rated operational power (NEMA)
44.7 kW

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Ambient storage temperature - min

40 °C

Fitted with:

Suppressor circuit in actuating electronics

Rated breaking capacity at 380/400 V

800 A

Short-circuit current rating (basic rating)

600 A, max. CB, SCCR (UL/CSA)

600 A, max. Fuse, SCCR (UL/CSA)

10 kA, SCCR (UL/CSA)

Rated control supply voltage (Us) at AC, 50 Hz - max

240 V

Rated breaking capacity at 660/690 V

650 A

Rated operational current (Ie) at DC-1, 220 V

125 A

Special purpose rating of elevator control

68 A, 240 V 60 Hz 3-ph, (UL/CSA)

62.1 A, 200 V 60 Hz 3-ph, (UL/CSA)

25 HP, 240 V 60 Hz 3-ph, (UL/CSA)

50 HP, 480 V 60 Hz 3-ph, (UL/CSA)

60 HP, 600 V 60 Hz 3-ph, (UL/CSA)

20 HP, 200 V 60 Hz 3-ph, (UL/CSA)

62 A, 600 V 60 Hz 3-ph, (UL/CSA)

65 A, 480 V 60 Hz 3-ph, (UL/CSA)

Ambient operating temperature - max

60 °C

Assigned motor power at 115/120 V, 60 Hz, 1-phase

7.5 HP

Electrical connection type of main circuit

Screw connection

Number Of Poles

Four-pole

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

Terminal capacity (flexible)

1 x (0.75 - 2.5) mm²

2 x (0.75 - 2.5) mm²

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

Application

Contactors for 4 pole electric consumers

Operating frequency

3600 mechanical Operations/h (AC operated)

3600 mechanical Operations/h (DC operated)

Voltage type

AC

Short-circuit protection rating (type 1 coordination) at 400 V

250 A gG/gL

Product category

Contactors

Rated operational power at AC-1, 500 V, 50 Hz

103 kW

Rated operational power at AC-3, 690 V, 50 Hz

63 kW

Power consumption, pick-up, 50 Hz

180 VA, Dual-frequency coil in a cold state and 1.0 x Us

Heat dissipation capacity P_{diss}

0 W

Assigned motor power at 460/480 V, 60 Hz, 3-phase
60 HP

Special purpose rating of tungsten incandescent lamps
100 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)

Switching time (AC operated, make contacts, opening delay) - min
35 ms

Rated operational power at AC-3, 240 V, 50 Hz
27.5 kW

Operating voltage at AC, 60 Hz - max
690 V

Terminal capacity (solid/stranded AWG)
8 - 3/0, Main cables
18 - 14, Control circuit cables

10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.

Degree of protection
IP00

Overvoltage category
III

Rated operational power at AC-1, 440 V, 50 Hz
90 kW

Switching time (AC operated, make contacts, opening delay) - max
41 ms

Ambient storage temperature - max
80 °C

Pollution degree
3

Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V
125 A

Power consumption, pick-up, 60 Hz
150 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
180 VA, Dual-frequency coil in a cold state and 1.0 x Us

Switching time (AC operated, make contacts, closing delay) - max
33 ms

Rated impulse withstand voltage (Uimp)
8000 V AC

Connection
Screw terminals

Operating voltage at AC, 60 Hz - min
230 V

Tightening torque
14 Nm, Screw terminals, Main cables
1.2 Nm, Screw terminals, Control circuit cables

Conventional thermal current Ith (1-pole, enclosed)
292 A

Rated operational current (Ie) at AC-3, 660 V, 690 V
65 A

10.2.2 Corrosion resistance
Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.

10.2.7 Inscriptions
Meets the product standard's requirements.

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V
80 A

Switching time (AC operated, make contacts, closing delay) - min
28 ms

Short-circuit protection rating (type 2 coordination) at 400 V
160 A gG/gL

Special purpose rating of ballast electrical discharge lamps
100 A (600V 60Hz 3phase, 347V 60Hz 1phase)
100 A (480V 60Hz 3phase, 277V 60Hz 1phase)

Number of auxiliary contacts (normally open contacts)
0

Rated operational power at AC-3, 500 V, 50 Hz
58 kW

Shock resistance
5 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
7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Rated operational current (Ie) at DC-1, 110 V
125 A

Assigned motor power at 230/240 V, 60 Hz, 3-phase
30 HP

Drop-out voltage
AC operated: 0.6 - 0.25 x UC, AC operated

Power consumption, sealing, 60 Hz
2.3 W, Dual-frequency coil in a cold state and 1.0 x Us
3.1 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz

Resistance per pole
0.6 mΩ

Ambient operating temperature (enclosed) - min
25 °C

Stripping length (control circuit cable)
10 mm

Operating voltage at AC, 50 Hz - max
690 V

10.12 Electromagnetic compatibility
Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Special purpose rating of refrigeration control (CSA only)
420 A, LRA 600 V 60 Hz 3phase; (CSA)
90 A, FLA 480 V 60 Hz 3phase; (CSA)
70 A, FLA 600 V 60 Hz 3phase; (CSA)
540 A, LRA 480 V 60 Hz 3phase; (CSA)

10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.

Stripping length (main cable)
15 mm

Ambient operating temperature (enclosed) - max
40 °C

Special purpose rating of resistance air heating
100 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
110 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)

Rated control supply voltage (Us) at DC - min
0 V

Short-circuit current rating (high fault at 600 V)
30 kA, CB, SCCR (UL/CSA)
300/300 A, Class J, max. Fuse, SCCR (UL/CSA)
30/100 kA, Fuse, SCCR (UL/CSA)
350 A, max. CB, SCCR (UL/CSA)

10.8 Connections for external conductors
Is the panel builder's responsibility.

Number of main contacts (normally open contact)
4

Rated breaking capacity at 220/230 V
800 A

Screw size
M10, Terminal screw, Main cables
M3.5, Terminal screw, Control circuit cables
5 mm AF, Hexagon socket-head spanner, Terminal screw, Main cables

Rated operational current (Ie) at AC-4, 400 V
115 A

Short-circuit protection rating (type 2 coordination) at 690 V
160 A gG/gL

Assigned motor power at 575/600 V, 60 Hz, 3-phase
75 HP

Protection
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Power consumption, sealing, 50 Hz

2.3 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz

Rated operational power at AC-3, 440 V, 50 Hz

51 kW

Terminal capacity (stranded)

2 x (16 - 95) mm², Main cables

1 x (16 - 120) mm², Main cables

Rated breaking capacity at 500 V

800 A

Rated operational power at AC-1, 415 V, 50 Hz

85 kW

Rated operational power at AC-3, 415 V, 50 Hz

48 kW

Climatic proofing

Damp heat, constant, to IEC 60068-2-3

Damp heat, cyclic, to IEC 60068-2-30

Connection to SmartWire-DT

No

Static heat dissipation, non-current-dependent Pvs

2.3 W

Rated control supply voltage (Us) at DC - max

0 V

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Utilization category

AC-3: Normal AC induction motors: starting, switch off during running

AC-1: Non-inductive or slightly inductive loads, resistance furnaces

Rated operational current (Ie) at AC-3, 440 V

80 A

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Safe isolation

440 V AC, Between the contacts, According to EN 61140

440 V AC, Between coil and contacts, According to EN 61140

Operating voltage at AC, 50 Hz - min

230 V

Rated operational power at AC-1, 220/230 V, 50 Hz

45 kW

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Heat dissipation per pole, current-dependent Pvid

7.4 W

Actuating voltage

RAC 240: 190 - 240 V 50/60 Hz

Residual current

1 mA (with actuation of A1 - A2 by the electronics with "0" signal)

Equipment heat dissipation, current-dependent Pvid

22.2 W

Assigned motor power at 200/208 V, 60 Hz, 3-phase

25 HP

Pick-up voltage

0.8 - 1.15 V AC/DC x Us

0.8 - 1.15 V AC x Uc

Conventional thermal current Ith at 40°C (3-pole, open)

125 A

Terminal capacity (solid)

2 x (0.75 - 4) mm², Control circuit cables

1 x (0.75 - 4) mm², Control circuit cables

1 x (0.75 - 2.5) mm²

Number of auxiliary contacts (normally closed contacts)

0

Rated operational power at AC-1, 240 V, 50 Hz

49 kW

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.
Lifespan, mechanical
10,000,000 Operations (AC operated)
10,000,000 Operations (DC operated)
Short-circuit protection rating (type 1 coordination) at 690 V
200 A gGgL
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)


1120 A
Rated operational current (Ie) at DC-1, 60 V
125 A
Rated operational voltage (Ue) at AC - max
690 V
Rated control supply voltage (Us) at AC, 60 Hz - min
190 V

10.7 Internal electrical circuits and connections
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.

Switching capacity (main contacts, general use)
125 A, Maximum motor rating (UL/CSA)
Conventional thermal current ith at 50°C (3-pole, open)
116 A
Rated operational current (Ie) at AC-3, 500 V
80 A
Assigned motor power at 230/240 V, 60 Hz, 1-phase
15 HP

Screwdriver size
0.8 x 5.5/1 x 6 mm, Terminal screw, Control circuit cables, Standard screwdriver
2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Duty factor
100 %

Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V
80 A
Conventional thermal current ith of main contacts (1-pole, open)
325 A
Rated control supply voltage (Us) at AC, 60 Hz - max
240 V
Rated operational power at AC-1, 690 V, 50 Hz
136 kW
Rated insulation voltage (Ui)
690 V

Altitude
Max. 2000 m
Serial Number Verified :
Authenticated: 

The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

Catalogs

- [Product Range Catalog Switching and protecting motors](#)
- [Switching and protecting motors - catalog](#)
- [SmartWire-DT Catalog](#)

Characteristic curve

- [eaton-contactors-switching-dilmp-characteristic-curve.eps](#)
- [eaton-contactors-characteristic-curve-2110dia-3.eps](#)

Declarations of conformity

- [DA-DC-00004781.pdf](#)
- [DA-DC-00004818.pdf](#)

Drawings

- [eaton-contactors-dilmp-dimensions-004.eps](#)
- [eaton-contactors-dilmp-dimensions-003.eps](#)
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Installation instructions

- [IL03407049Z](#)

Installation videos

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mCAD model

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