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109811

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# 109811

Eaton Moeller® series DILMP Contactor, 4 pole, DC operation, AC-1: 32 A, 1 N/O, RDC 24: 24 - 27 VDC, Screw terminals

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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106112

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Screw terminals, DILM7-10 - DILM38-10

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 3 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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110140

Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38, XHIR

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Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 2 N/O, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Spring-loaded terminals, DILM7-10 - DILM38-10

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 4 N/O, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILM Interlock, mechanical, for DILM17-32

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083094

Eaton Moeller® series Amplifier module, for separate mounting

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Eaton Moeller® series DILM Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Spring-loaded terminals, DILM7-10 - DILM38-10

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Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 4 N/O, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Screw terminals, DILM7-10 - DILM38-10

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Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 3 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILA, DILM7 - DILM38, XHIR

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Eaton Moeller® series DILA Auxiliary contact module, 2 pole, Ith= 16 A, 2 N/O, Front fixing, Screw terminals, DILA, DILM7 - DILM38

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Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Spring-loaded terminals, DILM7-10 - DILM38-10

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Eaton Moeller® series Amplifier module, for separate mounting

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Eaton Moeller® series DILM Auxiliary contact module, 2 pole, I<sub>th</sub>= 16 A, 1 N/O, 1 NC, Front fixing, Spring-loaded terminals, DILM7-10 - DILM38-10

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## General specifications

Product Name

Eaton Moeller® series DILMP 4-pole contactor

Catalog Number

109811

Model Code

DILMP32-10(RDC24)

EAN

4015081093830

Product Length/Depth

97 mm

Product Height

85 mm

Product Width

58 mm

Product Weight

0.6 kg

Certifications

VDE 0660

UL Category Control No.: NLDX

CE

UL 60947-4-1

UL

CSA Class No.: 2411-03, 3211-04

CSA File No.: 012528

IEC/EN 60947-4-1

CSA-C22.2 No. 60947-4-1-14

UL File No.: E29096

IEC/EN 60947

CSA

Catalog Notes

Also tested according to AC-3e.

## Product specifications

Terminal capacity (flexible with ferrule)

1 x (0.75 - 1.5) mm<sup>2</sup>

2 x (0.75 - 1.5) mm<sup>2</sup>



Rated operational current for specified heat dissipation (In)

32 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

20 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

7.5 kW

Conventional thermal current  $I_{th}$  (3-pole, enclosed)

27 A

Rated operational power at AC-4, 380/400 V, 50 Hz

7 kW

Rated control supply voltage ( $U_s$ ) at AC, 50 Hz - min

0 V

Conventional thermal current  $I_{th}$  at 60°C (3-pole, open)

28 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)

10/100 kA, Fuse, SCCR (UL/CSA)

10/65 kA, CB, SCCR (UL/CSA)

125/70 A, Class J, max. Fuse, SCCR (UL/CSA)

50/32 A, max. CB, SCCR (UL/CSA)

Conventional thermal current  $I_{th}$  at 55°C (3-pole, open)

29 A

Rated operational power (NEMA)

11 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

180 A

Short-circuit current rating (basic rating)

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

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

5 kA, SCCR (UL/CSA)

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

0 V

Rated breaking capacity at 660/690 V

120 A

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

32 A

Special purpose rating of elevator control

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

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

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

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

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

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

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

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

Ambient operating temperature - max

60 °C

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

2 HP

Electrical connection type of main circuit

Screw connection

Power consumption (sealing) at DC

0.9 W

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) mm<sup>2</sup>  
2 x (0.75 - 2.5) mm<sup>2</sup>  
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  
5000 mechanical Operations/h (AC operated)  
5000 mechanical Operations/h (DC operated)  
Voltage type  
DC  
Short-circuit protection rating (type 1 coordination) at 400 V  
63 A gG/gL  
Product category  
Contactors  
Rated operational power at AC-1, 500 V, 50 Hz  
26 kW  
Rated operational power at AC-3, 690 V, 50 Hz  
11 kW  
Heat dissipation capacity P<sub>diss</sub>  
0 W  
Assigned motor power at 460/480 V, 60 Hz, 3-phase  
15 HP  
Special purpose rating of tungsten incandescent lamps  
40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)  
40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)  
Rated operational power at AC-3, 240 V, 50 Hz  
5.5 kW  
Operating voltage at AC, 60 Hz - max  
690 V  
Terminal capacity (solid/stranded AWG)  
18 - 6, 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  
23 kW  
Ambient storage temperature - max  
80 °C  
Pollution degree  
3  
Rated operational current (I<sub>e</sub>) at AC-1, 380 V, 400 V, 415 V  
32 A  
Rated impulse withstand voltage (U<sub>imp</sub>)  
8000 V AC  
Connection  
Screw terminals  
Operating voltage at AC, 60 Hz - min  
24 V  
Tightening torque  
3 Nm, Screw terminals, Main cables  
1.2 Nm, Screw terminals, Control circuit cables  
Conventional thermal current I<sub>th</sub> (1-pole, enclosed)

76 A  
Rated operational current (Ie) at AC-3, 660 V, 690 V  
12 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  
18 A  
Number of contacts (normally open contacts)  
1  
Short-circuit protection rating (type 2 coordination) at 400 V  
35 A gG/gL  
Special purpose rating of ballast electrical discharge lamps  
40 A (480V 60Hz 3phase, 277V 60Hz 1phase)  
40 A (600V 60Hz 3phase, 347V 60Hz 1phase)  
Number of auxiliary contacts (normally open contacts)  
1  
Special purpose rating of definite purpose rating  
25 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)  
150 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)  
Rated operational power at AC-3, 500 V, 50 Hz  
12 kW  
Shock resistance  
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  
5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms  
Rated operational current (Ie) at DC-1, 110 V  
32 A  
Assigned motor power at 230/240 V, 60 Hz, 3-phase  
10 HP  
Drop-out voltage  
0.2 - 0.6 x UC, DC operated  
Resistance per pole  
2.7 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)  
40 A, FLA 480 V 60 Hz 3phase; (CSA)  
30 A, FLA 600 V 60 Hz 3phase; (CSA)  
240 A, LRA 480 V 60 Hz 3phase; (CSA)  
180 A, LRA 600 V 60 Hz 3phase; (CSA)  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.  
Stripping length (main cable)  
10 mm  
Ambient operating temperature (enclosed) - max  
40 °C  
Special purpose rating of resistance air heating  
40 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)  
40 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)  
Rated control supply voltage (Us) at DC - min  
24 V  
Short-circuit current rating (high fault at 600 V)  
125/100 A, Class J, max. Fuse, SCCR (UL/CSA)  
50/32 A, max. CB, SCCR (UL/CSA)  
10/100 kA, Fuse, SCCR (UL/CSA)

10/22 kA, 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

180 A

Screw size

M5, Terminal screw, Main cables

M3.5, Terminal screw, Control circuit cables

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

15 A

Short-circuit protection rating (type 2 coordination) at 690 V

35 A gG/gL

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

20 HP

Protection

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

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

10.5 kW

Terminal capacity (stranded)

1 x 16 mm<sup>2</sup>, Main cables

Rated breaking capacity at 500 V

180 A

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

22 kW

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

10 kW

Climatic proofing

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

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

Connection to SmartWire-DT

In conjunction with DIL-SWD SmartWire DT contactor module

Yes

Static heat dissipation, non-current-dependent Pvs

0.9 W

Rated control supply voltage (Us) at DC - max

27 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

18 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

24 V

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

12 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

2.2 W

Actuating voltage

RDC 24: 24 - 27 VDC

Switching time (DC operated, make contacts, opening delay) - max

30 ms

Switching capacity (auxiliary contacts, general use)

10 A, 600 V AC, (UL/CSA)  
1 A, 250 V DC, (UL/CSA)  
Switching time (DC operated, make contacts, closing delay) - max  
47 ms  
Residual current  
1 mA (with actuation of A1 - A2 by the electronics with "0" signal)  
Equipment heat dissipation, current-dependent P<sub>vid</sub>  
6.6 W  
Assigned motor power at 200/208 V, 60 Hz, 3-phase  
7.5 HP  
Pick-up voltage  
0.7 - 1.2 V DC x U<sub>c</sub>  
0.85 - 1.1 V AC/DC x U<sub>s</sub>  
Conventional thermal current I<sub>th</sub> at 40°C (3-pole, open)  
32 A  
Terminal capacity (solid)  
1 x (0.75 - 16) mm<sup>2</sup>, Main cables  
2 x (0.75 - 10) mm<sup>2</sup>, Main cables  
1 x (0.75 - 4) mm<sup>2</sup>, Control circuit cables  
2 x (0.75 - 2.5) mm<sup>2</sup>, Control circuit cables  
1 x (0.75 - 2.5) mm<sup>2</sup>  
Number of auxiliary contacts (normally closed contacts)  
0  
Rated operational power at AC-1, 240 V, 50 Hz  
13 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  
50 A gG/gL  
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)  
238 A  
Rated operational current (I<sub>e</sub>) at DC-1, 60 V  
32 A  
Rated operational voltage (U<sub>e</sub>) at AC - max  
690 V  
Rated control supply voltage (U<sub>s</sub>) at AC, 60 Hz - min  
0 V  
10.7 Internal electrical circuits and connections  
Is the panel builder's responsibility.  
Power consumption (pick-up) at DC  
12 W  
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)  
40 A, Maximum motor rating (UL/CSA)  
Conventional thermal current I<sub>th</sub> at 50°C (3-pole, open)  
30 A  
Rated operational current (I<sub>e</sub>) at AC-3, 500 V  
18 A  
Assigned motor power at 230/240 V, 60 Hz, 1-phase  
5 HP  
Screwdriver size  
0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver  
2, Terminal screw, Pozidriv screwdriver  
Duty factor  
100 %  
Rated operational current (I<sub>e</sub>) at AC-3, 220 V, 230 V, 240 V  
18 A  
Conventional thermal current I<sub>th</sub> of main contacts (1-pole, open)  
84 A

Rated control supply voltage (Us) at AC, 60 Hz - max

0 V

Arcing time

10 ms

Rated operational power at AC-1, 690 V, 50 Hz

35 kW

Switching capacity (auxiliary contacts, pilot duty)

P300, DC operated (UL/CSA)

A600, AC operated (UL/CSA)


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

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

## Characteristic curve

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

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## Declarations of conformity

- [DA-DC-00004783.pdf](#)
- [DA-DC-00004816.pdf](#)

## Drawings

- [eaton-contactors-mounting-dilm-dimensions.eps](#)
- [eaton-contactors-dilmp-dimensions-007.eps](#)
- [eaton-contactors-mounting-dilm-dimensions-002.eps](#)
- [eaton-contactors-dilmp-dimensions-008.eps](#)

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## eCAD model

- [DA-CE-ETN.DILMP32-10\(RDC24\)](#)

## Installation instructions

- [IL03407049Z](#)

## Installation videos

- [WIN-WIN with push-in technology](#)

## mCAD model

- [DA-CS-dil\\_mp32\\_45](#)
- [DA-CD-dil\\_mp32\\_45](#)

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# PEP Eco-passport

- [EATO-00017-V01.01-EN](#)

## Wiring diagrams

- [eaton-contactors-dilmp-wiring-diagram.eps](#)
- [eaton-contactors-contact-dilem-wiring-diagram.eps](#)

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## [Export product specification](#)

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