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010005

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## General specifications

### Product Name

Eaton Moeller® series DILEM Mini contactor

### Catalog Number

010005

### Model Code

DILEM-10(24V50HZ)

### EAN

4015080100058

### Product Length/Depth

52 mm

### Product Height

58 mm

### Product Width

45 mm

### Product Weight

0.17 kg

### Certifications

UL Category Control No.: NLDX

### CSA

IEC/EN 60947-4-1

CSA File No.: 012528

CSA-C22.2 No. 14-05

UL 508

VDE 0660

CE

UL

IEC/EN 60947

UL File No.: E29096

CSA Class No.: 3211-04

### 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)

9 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-3, 380/400 V, 50 Hz

4 kW

### Conventional thermal current ith (3-pole, enclosed)

16 A

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

3 kW

### Rated operational current (Ie) at AC-4, 440 V

6.6 A

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

24 V

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### Number of contacts (normally closed) as main contact

0

### Conventional thermal current ith at 55°C (3-pole, open)

19 A



Rated operational power (NEMA)

3.7 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:

Auxiliary contact

Rated breaking capacity at 380/400 V

90 A

Short-circuit current rating (basic rating)

5 kA, SCCR (UL/CSA)

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

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

24 V

Rated breaking capacity at 660/690 V

42 A

Rated operational current (Ie) at DC-1, 24 V

20 A

Changeover time

16 - 21 ms

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

20 A

Ambient operating temperature - max

50 °C

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

0.5 HP

Features

Positive operating contacts to EN 60947-5-1 appendix L, including auxiliary contact module

Rated operational power at AC-4, 440 V, 50 Hz

3.3 kW

Electrical connection type of main circuit

Screw connection

Number Of Poles

Three-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.

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

Mini Contactors for Motors and Resistive Loads

Rated operational current (Ie) at AC-15, 380 V, 400 V, 415 V

3 A

Operating frequency

9000 mechanical Operations/h

Voltage type

AC

Product category

Contactors

Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V

6.6 A

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

4 kW

Power consumption, pick-up, 50 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

Heat dissipation capacity Pdiss

0 W

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

5 HP

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

8 ms  
 Rated operational current (Ie) at AC-4, 500 V  
 5 A  
 Rated operational power at AC-3, 240 V, 50 Hz  
 2.5 kW  
 Conventional thermal current Ith of auxiliary contacts (1-pole, open)  
 10 A  
 Operating voltage at AC, 60 Hz - max  
 690 V  
 Terminal capacity (solid/stranded AWG)  
 18 - 14  
 10.9.2 Power-frequency electric strength  
 Is the panel builder's responsibility.  
 Degree of protection  
 IP20  
 Overvoltage category  
 III  
 Switching time (AC operated, make contacts, opening delay) - max  
 18 ms  
 Ambient storage temperature - max  
 80 °C  
 Pollution degree  
 3  
 Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V  
 22 A  
 Power consumption, pick-up, 60 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  
 Switching time (AC operated, make contacts, closing delay) - max  
 21 ms  
 Rated impulse withstand voltage (Uimp)  
 6000 V AC  
 Connection  
 Screw terminals  
 Operating voltage at AC, 60 Hz - min  
 24 V  
 Tightening torque  
 1.2 Nm, Screw terminals  
 Switching time (AC operated, N/O, with auxiliary contact module, closing delay)  
 45 ms  
 Rated operational power at AC-4, 660/690 V, 50 Hz  
 3 kW  
 Conventional thermal current Ith (1-pole, enclosed)  
 40 A  
 Rated operational current (Ie) at AC-3, 660 V, 690 V  
 4.8 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  
 9 A  
 Number of contacts (normally open contacts)  
 1  
 Switching time (AC operated, make contacts, closing delay) - min  
 14 ms  
 Number of auxiliary contacts (normally open contacts)  
 1  
 Rated operational power at AC-3, 500 V, 50 Hz  
 4 kW  
 Shock resistance  
 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  
 8 g, N/O auxiliary contact, Basic unit without auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

20 g, N/C auxiliary 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, Mechanical, 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  
Rated operational current (Ie) at DC-1, 110 V  
20 A  
Assigned motor power at 230/240 V, 60 Hz, 3-phase  
3 HP  
Rated operational current (Ie) at DC-1, 12 V  
20 A  
Power consumption, sealing, 60 Hz  
1.8 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz  
Resistance per pole  
9.18 mΩ  
Ambient operating temperature (enclosed) - min  
25 °C  
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.  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.  
Stripping length (main cable)  
8 mm  
Ambient operating temperature (enclosed) - max  
40 °C  
Rated control supply voltage (Us) at DC - min  
0 V  
10.8 Connections for external conductors  
Is the panel builder's responsibility.  
Number of main contacts (normally open contact)  
3  
Rated breaking capacity at 220/230 V  
90 A  
Screw size  
M3.5, Terminal screw  
Rated operational current (Ie) at AC-4, 400 V  
6.6 A  
Assigned motor power at 575/600 V, 60 Hz, 3-phase  
5 HP  
Protection  
Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)  
Power consumption, sealing, 50 Hz  
4.6 VA, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz  
1.8 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50/60 Hz  
Rated operational power at AC-3, 440 V, 50 Hz  
4.6 kW  
Rated breaking capacity at 500 V  
64 A  
Rated operational power at AC-3, 415 V, 50 Hz  
4.3 kW  
Climatic proofing  
Damp heat, constant, to IEC 60068-2-78  
Damp heat, cyclic, to IEC 60068-2-30  
Static heat dissipation, non-current-dependent Pvs  
1.8 W  
Rated operational current (Ie) at AC-15, 500 V  
1.5 A  
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-4: Normal AC induction motors: starting, plugging, reversing, inching  
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

9 A

10.5 Protection against electric shock

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

Safe isolation

300 V AC, Between auxiliary contacts, According to EN 61140

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

300 V AC, Between coil and auxiliary contacts, According to EN 61140

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

Short-circuit protection rating (type 2 coordination) at 500 V

10 A gG/gL

Mounting position

As required (except vertical with terminals A1/A2 at the bottom)

Operating voltage at AC, 50 Hz - min

24 V

Rated operational current (Ie) at AC-15, 220 V, 230 V, 240 V

6 A

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

0.4 W

Actuating voltage

24 V 50 Hz

Switching capacity (auxiliary contacts, general use)

0.5 A, 250 V DC, (UL/CSA)

10 A, 600 V AC, (UL/CSA)

Short-circuit protection

PKZM0-4, Maximum overcurrent protective device, Short-circuit protection only, Auxiliary contacts, Short-circuit rating without welding

10 A fast, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding

6 A gG/gL, Max. Fuse 500V, Auxiliary contacts, Short-circuit rating without welding

Rated operational current (Ie) at AC-4, 660 V, 690 V

3.4 A

Equipment heat dissipation, current-dependent Pvid

1.2 W

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

2 HP

Rated operational current (Ie)

2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)

2.5 A at 24 V, DC L/R ≤ 15 ms (with 1 contact in series)

0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)

1.5 A at 100 V, DC L/R ≤ 15 ms (with 3 contacts in series)

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)

Suitable for

Also motors with efficiency class IE3

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

22 A

Terminal capacity (solid)

1 x (0.75 - 2.5) mm²

2 x (0.75 - 2.5) mm²

Number of auxiliary contacts (normally closed contacts)

0

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


150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)

7,000,000 Operations (Coil 50/60 Hz)

200,000 Operations (at 240 V, AC-15)

10,000,000 Operations

Rated operational power at AC-4, 240 V, 50 Hz

1.8 kW  
Rated making capacity up to 440 V (cos phi to IEC/EN 60947)  
110 A  
Rated operational power at AC-4, 500 V, 50 Hz  
3 kW  
Control circuit reliability  
< 2λ, < 1 failure at 100,000,000 Operations (at  $U_e = 24$  VDC,  $U_{min} = 17$  V,  $I_{min} = 5.4$  mA)  
Rated operational current (Ie) at DC-1, 60 V  
20 A  
Rated operational power at AC-4, 220/230 V, 50 Hz  
1.5 kW  
Rated operational voltage (Ue) at AC - max  
690 V  
Rated control supply voltage (Us) at AC, 60 Hz - min  
0 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)  
15 A, Maximum motor rating (UL/CSA)  
Conventional thermal current Ith at 50°C (3-pole, open)  
20 A  
Rated operational current (Ie) at AC-3, 500 V  
6.4 A  
Assigned motor power at 230/240 V, 60 Hz, 1-phase  
1.5 HP  
Screwdriver size  
2, Terminal screw, Pozidriv screwdriver  
0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver  
Short-circuit protection rating (type 1 coordination) at 500 V  
20 A gG/gL  
Duty factor  
100 %  
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V  
9 A  
Conventional thermal current Ith of main contacts (1-pole, open)  
50 A  
Rated control supply voltage (Us) at AC, 60 Hz - max  
0 V  
Arcing time  
12 ms at 690 V AC  
Rated operational power at AC-4, 415 V, 50 Hz  
3.1 kW  
Switching capacity (auxiliary contacts, pilot duty)  
A600, AC operated (UL/CSA)  
P300, DC 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](#)

## Characteristic curve

- [eaton-contactors-switch-dilm-characteristic-curve-002.eps](#)
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## Declarations of conformity

- [DA-DC-00004812.pdf](#)
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## Drawings

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- [eaton-contactors-dilem-dimensions.eps](#)
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## Installation instructions

- [IL03407009Z](#)

## mCAD model

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