

# Eaton 278046

Catalog Number: 278046

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Spring-loaded terminals, DILMC40 - DILMC150

## General specifications



|   |                               |
|---|-------------------------------|
| <b>Product Name</b>                                 | <b>Catalog Number</b>         |
| Eaton Moeller® series DILM auxiliary contact module | 278046                        |
|   | <b>Model Code</b>             |
|   | DILM150-XHIC22                |
| <b>EAN</b>  | <b>Product Length/Depth</b>   |
| 4015082780463                                       | 39 mm                         |
| <b>Product Height</b>                               | <b>Product Width</b>          |
| 46 mm   | 45 mm                         |
| <b>Product Weight</b>                               | <b>Certifications</b>         |
| 0.055 kg  | CSA-C22.2 No. 14-05           |
|   | UL                            |
|   | CSA                           |
|   | UL File No.: E29184           |
|   | CSA Class No.: 3211-03        |
|   | IEC/EN 60947-4-1              |
|   | CE                            |
|   | VDE 0660                      |
|   | IEC/EN 60947                  |
|   | UL Category Control No.: NKCR |
|   | CSA File No.: 012528          |
|   | UL 508                        |

## Product specifications

### Type

Front mounting auxiliary contact

### Features

Interlocked opposing contacts within an auxiliary contact module (according to IEC 60947-5-1 Annex L)

#### 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.

#### 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 Resist. 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.

## Resources

### Catalogs

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[SmartWire-DT Catalog](#)

[Switching and protecting motors - catalog](#)

[Product Range Catalog Switching and protecting motors](#)

### Declarations of conformity

[DA-DC-00004774.pdf](#)

[DA-DC-00004775.pdf](#)

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

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

[DA-DC-00004782.pdf](#)

[DA-DC-00004817.pdf](#)

### Drawings

[210I184](#)

[eaton-contactors-contact-dilm-accessory-3d-drawing-005.eps](#)

### eCAD model

[ETN.278046.edz](#)

[ETN.DILM150-XHIC22](#)

### Installation instructions

[IL03407034Z](#)

### Installation videos

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

### mCAD model

[eaton-cadenas-front\\_view-dil\\_m150\\_xhic\\_4\\_front.pra](#)

[DA-CS-dil\\_m150\\_xhic\\_4](#)

[eaton-cadenas-side\\_view-dil\\_m150\\_xhic\\_4\\_side.pra](#)

[eaton-cadenas-path-01-geo-dil\\_m150\\_xhic\\_4.3db](#)

[DA-CD-dil\\_m150\\_xhic\\_4](#)

### Wiring diagrams

[2100SWI-133](#)

[210S049](#)

### 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.

### Electric connection type

Spring clamp connection

### Fitted with:

Interlocked opposing contacts

### Pollution degree

3

### Climatic proofing

Damp heat, constant, to IEC 60068-2-78

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

### Ambient operating temperature - max

60 °C

### Ambient operating temperature - min

-25 °C

### Ambient operating temperature (enclosed) - max

40 °C

### Ambient operating temperature (enclosed) - min

-25 °C

Ambient storage temperature - max

80 °C

Ambient storage temperature - min

-40 °C

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

16 A

Equipment heat dissipation, current-dependent  $P_{vid}$

0 W

Heat dissipation capacity  $P_{diss}$

0 W

Heat dissipation per pole, current-dependent  $P_{vid}$

0.23 W

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

2

Number of contacts (normally open contacts)

2

Number of switches (fault signal)

0

Rated impulse withstand voltage ( $U_{imp}$ )

6000 V AC

Screwdriver size

0.6 x 3.5 mm, Spring-loaded terminals

Mounting method

Front fastening

Connection

Spring-loaded terminals

Overvoltage category

III

Control circuit reliability

$\lambda < 5 \times 1/10^7$  (1 failure at 2,000,000 operations for  $U_e = 24$  V

DC,  $U_{min} = 17$  V,  $I_{min} = 5.4$  mA)

Degree of protection

IP20

Model

Top mounting

### Lamp holder

None

### Functions

For standard applications

### Safe isolation

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

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

### Rated operational current (I<sub>e</sub>)

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

6 A at 60 V, DC L/R ≤ 15 ms (with 1 contact in series)

3 A at 110 V, DC L/R ≤ 15 ms (with 1 contact in series)

1 A at 220 V, DC L/R ≤ 15 ms (with 1 contact in series)

### Lifespan, electrical

1,300,000 Operations (at 230 V, AC-15, 3 A)

### Switching capacity (auxiliary contacts, general use)

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

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

### Switching capacity (auxiliary contacts, pilot duty)

A600, AC operated (UL/CSA)

P300, DC operated (UL/CSA)

### Static heat dissipation, non-current-dependent P<sub>vs</sub>

0 W

### Protection

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

### Number of poles

Four-pole

### Short-circuit protection rating without welding

16 A gG/gL, 500 V, Max. Fuse, Contacts

### Short-circuit protection rating

Max. 16 A gG/gL, Fuse, Without welding, Auxiliary contacts

### Rated insulation voltage (U<sub>i</sub>)

690 V

### Rated operational current (I<sub>e</sub>) at AC-15, 220 V, 230 V, 240 V

6 A

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

4 A

Rated operational current (Ie) at AC-15, 500 V

1.5 A

Rated operational current for specified heat dissipation (In)

4 A

Rated operational voltage (Ue) at AC - max

500 V

Terminal capacity (flexible with ferrule)

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

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

Terminal capacity (solid)

1 x (0.75 - 2.5) mm<sup>2</sup>

2 x (0.75 - 2.5) mm<sup>2</sup>

Terminal capacity (solid/stranded AWG)

18 - 14

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



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