

# Eaton 277948

Catalog Number: 277948

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

## General specifications

Product Name	Catalog Number
Eaton Moeller® series DILM Accessory	277948
Auxiliary contact module	Model Code
	DILM150-XHI40
EAN	Product Length/Depth
4015082779481	39 mm
Product Height	Product Width
46 mm	45 mm
Product Weight	Certifications
.055 kg	VDE 0660 CE IEC/EN 60947 UL
	IEC/EN 60947-4-1 UL 508 UL File No.:
	E29184 CSA-C22.2 No. 14-05 CSA
	CSA File No.: 012528 UL Category
	Control No.: NKCR CSA Class No.:
	3211-03



## Product specifications

### Rated operational current for specified heat dissipation (In)

4 A

### Terminal capacity (flexible with ferrule)

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

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

### 10.11 Short-circuit rating

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

### Ambient operating temperature (enclosed) - min

25 °C

### Lamp holder

None

### 10.4 Clearances and creepage distances

Meets the product standard's requirements.

### 10.12 Electromagnetic compatibility

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

### Mounting method

Front fastening

### 10.2.5 Lifting

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

### Ambient operating temperature (enclosed) - max

40 °C

### 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

### Ambient storage temperature - min

40 °C

### Fitted with:

Interlocked opposing contacts

### 10.8 Connections for external conductors

Is the panel builder's responsibility.

### Protection

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

### Ambient operating temperature - max

## Resources

### Catalogs

[Switching and protecting motors - catalog](#)

[SmartWire-DT Catalog](#)

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

[Product overview for machinery](#)

### Certification reports

[DA-DC-00004229.pdf](#)

[DA-DC-00004239.pdf](#)

[DA-DC-00004103.pdf](#)

[DA-DC-00004097.pdf](#)

[DA-DC-00004070.pdf](#)

[DA-DC-00004093.pdf](#)

### Drawings

[210I183](#)

[eaton-contactors-contact-dilm-accessory-3d-drawing-004.eps](#)

### Installation instructions

[IL03407034Z](#)

### Specifications and datasheets

[Eaton Specification Sheet - 277948](#)

### Wiring diagrams

[eaton-contactors-contact-dilm-accessory-wiring-diagram-006.eps](#)

[210S170](#)

60 °C

#### Climatic proofing

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

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

#### Features

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

#### Lifespan, electrical

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

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

0 W

#### Rated operational current (I<sub>e</sub>) at AC-15, 500 V

1.5 A

#### 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

#### 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.

#### 10.5 Protection against electric shock

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

#### 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>) at AC-15, 220 V, 230 V, 240 V

6 A

#### Electric connection type

Screw connection

#### 10.13 Mechanical function

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

#### 10.2.6 Mechanical impact

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

#### 10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

#### Number of contacts (normally closed contacts)

0

#### 10.3 Degree of protection of assemblies

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

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

.23 W

#### Rated operational current ( $I_e$ ) at AC-15, 380 V, 400 V, 415 V

4 A

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

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

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

#### Number of switches (fault signal)

0

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

0 W

#### Heat dissipation capacity $P_{diss}$

0 W

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

16 A

#### Rated operational current ( $I_e$ )

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

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

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

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

#### Short-circuit protection rating without welding

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

#### Terminal capacity (solid)

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

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

#### 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.

#### Connection type

Screw connection

#### Terminal capacity (solid/stranded AWG)

18 - 14

#### 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

#### Control circuit reliability

$< 2 \lambda$ ,  $< 1$  failure at 100,000,000 Operations (at  $U_e = 24$  V DC,  
 $U_{min} = 17$  V,  $I_{min} = 5.4$  mA)

#### Overvoltage category

III

#### Degree of protection

IP20

#### Ambient storage temperature - max

80 °C

#### Rated operational voltage ( $U_e$ ) at AC - max

500 V

#### Pollution degree

3

#### 10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

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

6000 V AC

#### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

#### Functions

For standard applications

#### Tightening torque

1.2 Nm, Screw terminals

#### Screwdriver size

2, Terminal screw, Pozidriv screwdriver  
0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver

#### Type

Front mounting auxiliary contact

#### 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.

#### Number of contacts (normally open contacts)

4

#### Short-circuit protection rating

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

#### Model

Top mounting

#### Number of contacts (change-over contacts)

0

#### 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

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

A600, AC operated (UL/CSA)

P300, DC operated (UL/CSA)

#### Rated insulation voltage (Ui)

690 V