

Eaton 277377

Catalog Number: 277377

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

General specifications



Product Name

Eaton Moeller® series DILM auxiliary contact module

Catalog Number

277377

Model Code

DILM32-XHI22

EAN

4015082773779

Product Length/Depth

45 mm

Product Height

38 mm

Product Width

36 mm

Product Weight

0.048 kg

Certifications

UL File No.: E29184

CSA

CSA-C22.2 No. 14-05

IEC/EN 60947-4-1

IEC/EN 60947

CE

UL 508

UL Category Control No.: NKCR

CSA File No.: 012528

UL

VDE 0660

CSA Class No.: 3211-03

Features & Functions

Features

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

Functions

For standard applications

Fitted with:

Interlocked opposing contacts

Number of poles

Four-pole

Electric connection type

Screw connection

General

Lifespan, electrical

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

Model

Top mounting

Mounting method

Front fastening

Overvoltage category

III

Pollution degree

3

Protection

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

Rated impulse withstand voltage (Uimp)

6000 V AC

Type

Front mounting auxiliary contact

Ambient conditions, mechanical

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

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

Ambient operating temperature (enclosed) - min

25 °C

Ambient operating temperature (enclosed) - max

40 °C

Ambient storage temperature - min

40 °C

Ambient storage temperature - max

80 °C

Climatic proofing

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

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

Terminal capacities

Terminal capacity (flexible with ferrule)

2 x (0.75 - 2.5) mm²

1 x (0.75 - 2.5) mm²

Terminal capacity (solid)

1 x (0.75 - 2.5) mm²

2 x (0.75 - 2.5) mm²

Terminal capacity (solid/stranded AWG)

18 - 14

Screwdriver size

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

2, Terminal screw, Pozidriv screwdriver

Tightening torque

1.2 Nm, Screw terminals

Electrical Rating

Rated operational current (I_e)

1 A at 220 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)

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

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

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

6 A

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

4 A

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

1.5 A

Rated operational current (I_e) at DC-13, 24 V

2.5 A

Rated operational current (I_e) at DC-13, 60 V

1 A

Rated operational current (I_e) at DC-13, 110 V

0.5 A

Rated operational current (I_e) at DC-13, 220 V, 230 V

0.25 A

Rated insulation voltage (U_i)

690 V

Rated operational voltage (U_e) at AC - max

500 V

Short-circuit rating

Short-circuit protection rating

Max. 10 A gG/gL, Fuse, Without welding, Auxiliary contacts

Short-circuit protection rating without welding

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

Conventional thermal current

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

16 A

Switching capacity

Switching capacity (auxiliary contacts, general use)

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

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

Switching capacity (auxiliary contacts, pilot duty)

A600, AC operated (UL/CSA)

P300, DC operated (UL/CSA)

Contacts

Control circuit reliability

$\lambda < 5 \times 10^{-7}$ (1 failure at 2,000,000 operations for $U_e = 24$ V DC,
 $U_{min} = 17$ V, $I_{min} = 5.4$ mA)

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

2

Number of contacts (normally open contacts)

2

Communication

Connection type

Screw connection

Safety

Safe isolation

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

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

Design verification

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Rated operational current for specified heat dissipation (I_n)

4 A

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.

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.

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.

Resources

Catalogues

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

[Switching and protecting motors - catalog](#)

[SmartWire-DT Catalog](#)

Certification reports

[DA-DC-00004245.pdf](#)

[DA-DC-00004246.pdf](#)

[DA-DC-00004109.pdf](#)

Drawings

[eaton-contactors-frame-dilm-dimensions.eps](#)

[eaton-contactors-module-dilm-dimensions.eps](#)

[eaton-contactors-contact-dilm-accessory-3d-drawing-008.eps](#)

eCAD model

[ETN.DILM32-XHI22](#)

Installation instructions

[eaton-contactors-dila-dilm7-15-dilmp20-instruction-leaflet-il03407013z.pdf](#)

Installation videos

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

mCAD model

[DA-CS-dil_m32_xhi_4](#)

[DA-CD-dil_m32_xhi_4](#)

Wiring diagrams

[2100SWI-120](#)

[eaton-contactors-contact-dilm-accessory-wiring-diagram-010.eps](#)



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