Specifications

Eaton 278049

Catalog Number: 278049

Eaton Moeller® series DILM Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Spring-loaded terminals, DILMC40 - DILMC150



General specifications

Product Name
Eaton Moeller® series DILM auxiliary contact module

Catalog Number
278049

EAN
4015082780494

Product Length/Depth
39 mm

Product Height
46 mm

Product Width
45 mm

Product Weight
0.055 kg

Certifications
CSA File No.: 012528
IEC/EN 60947
CSA Class No.: 3211-03
VDE 0660
CSA
CSA-C22.2 No. 14-05
UL File No.: E29184
UL Category Control No.: NKCR
UL
IEC/EN 60947-4-1
UL 508
CE

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Features Functions

Functions

For standard applications

Number of poles

Four-pole

Electric connection type

Spring clamp connection

General

Degree of protection

IP20

Lifespan, electrical

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

Model

Top mounting

Mounting method

Front fastening

Connection

Spring-loaded terminals

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

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

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, constant, to IEC 60068-2-78

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

Terminal capacities

Terminal capacity (flexible with ferrule)

1 x (0.75 - 1.5) mm²

2 x (0.75 - 1.5) mm²

Terminal capacity (solid)

2 x (0.75 - 2.5) mm²

1 x (0.75 - 2.5) mm²

Terminal capacity (solid/stranded AWG)

18 - 14

Screwdriver size

0.6 x 3.5 mm, Spring-loaded terminals

Electrical rating

Rated operational current (Ie)

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)

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)

Rated operational current (Ie) 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 insulation voltage (Ui)

690 V

Rated operational voltage (Ue) at AC - max

500 V

Short-circuit rating

Short-circuit protection rating

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

Short-circuit protection rating without welding

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

Conventional thermal current Ith

Conventional thermal current ith at 60°C (3-pole, open)

16 A

Switching capacity

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)

P300, DC operated (UL/CSA)

A600, AC operated (UL/CSA)

Contacts

Control circuit reliability

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

Number of contacts

1 (normally open, early make)

1 (normally closed, late break)

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

2

Number of contacts (normally open contacts)

2

Safety

Safe isolation

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

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

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.23 W

Rated operational current for specified heat dissipation (In)

4 A

Static heat dissipation, non-current-dependent Pvs

0 W

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

Catalogs

SmartWire-DT Catalog

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

Product Range Catalog Switching and protecting motors

Declarations of conformity

DA-DC-00004070.pdf

DA-DC-00004774.pdf

DA-DC-00004781.pdf

DA-DC-00004818.pdf

DA-DC-00004775.pdf

DA-DC-00004817.pdf

DA-DC-00004782.pdf

DA-DC-00004229.pdf

Drawings

eaton-contactors-contact-dilm-accessory-3d-drawing-005.eps

eCAD model

ETN.278049.edz

Installation instructions

IL03407034Z

Installation videos

WIN-WIN with push-in technology

mCAD model

DA-CS-dil_m150_xhic_4

DA-CD-dil_m150_xhic_4

Wiring diagrams

eaton-contactors-contact-dilm-accessory-wiring-diagram-011.eps



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