Specifications

Eaton 101042

Catalog Number: 101042

Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 2 pole, Ith= 16 A, 2 N/O, Front fixing, Screw terminals, MSC



General specifications

Product Name
Eaton Moeller® series DILA Accessory Auxiliary contact module

Catalog Number
101042

EAN
4015081009374

Product Length/Depth
55 mm

Product Height
38 mm

Product Width
36 mm

Product Weight
0.039 kg

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

Powering Business Worldwide

Features & Functions

Features

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

Functions

For combination with electrical wiringlinks

Fitted with:

Switching elements according to EN 50005

Interlocked opposing contacts

Number of poles

Two-pole

Electric connection type

Screw connection

General

Degree of protection

IP20

Shock resistance

5 g, N/C auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

7 g, N/O auxiliary contact, Basic unit with auxiliary contact module, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

Lifespan, electrical

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

Model

Top mounting

Mounting method

Front fastening

Connection

Screw 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

6000 V

Type

Front mounting auxiliary contact, high version

Climatic environmental conditions

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

60 °C

Ambient operating temperature (enclosed) - min

Terminal capacities

Terminal capacity (flexible with ferrule)

1 x (0.75 - 2.5) mm², Screw terminals

2 x (0.75 - 2.5) mm², Screw terminals

Terminal capacity (solid)

1 x (0.75 - 2.5) mm², Screw terminals

2 x (0.75 - 2.5) mm², Screw terminals

-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 capacity (solid/stranded AWG)

18 - 14, Screw terminals

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

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

16 A

Rated operational current (Ie)

2.5 A at 24 V, DC L/R ≤ 50 ms (with 3 contacts in series)

0.25 A at 220 V, DC L/R ≤ 50 ms (with 3 contacts in series)

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

1 A at 60 V, DC L/R ≤ 50 ms (with 3 contacts in series)

0.5 A at 110 V, DC L/R ≤ 50 ms (with 3 contacts 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)

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

4 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 (Ie) at DC-13, 60 V

1 A

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

0.5 A

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

0.25 A

Rated insulation voltage (Ui)

690 V

Rated operational voltage (Ue) at AC - max

500 V

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

Safe isolation

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

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

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

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

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

0

Number of contacts (normally open contacts)

2

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.16 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

Product Range Catalog Switching and protecting motors

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

Switching and protecting motors - catalog

Declarations of conformity

DA-DC-00004776.pdf

DA-DC-00004789.pdf

DA-DC-00004816.pdf

DA-DC-00004880.pdf

DA-DC-00004792.pdf

DA-DC-00004810.pdf

DA-DC-00004983.pdf

DA-DC-00004881.pdf

DA-DC-00004937.pdf

DA-DC-00004992.pdf

DA-DC-00004976.pdf

DA-DC-00004988.pdf

DA-DC-00004972.pdf

DA-DC-00004777.pdf

DA-DC-00004819.pdf

DA-DC-00005005.pdf

DA-DC-00004815.pdf

DA-DC-00004996.pdf

DA-DC-00004878.pdf

DA-DC-00004246.pdf

DA-DC-00004913.pdf

DA-DC-00004912.pdf

DA-DC-00004910.pdf

DA-DC-00004783.pdf

DA-DC-00004811.pdf

DA-DC-00004784.pdf

Drawings

eaton-contactors-module-dilm-dimensions-002.eps

eaton-contactors-module-dila-accessory-3d-drawing.eps

eCAD model

ETN.101042.edz

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_a_xhit

DA-CD-dil_a_xhit

System overview

eaton-manual-motor-starters-assemblies-dila-accessory-explosion-drawing.eps

Wiring diagrams

eaton-contactors-contact-dila-accessory-wiring-diagram-010.eps

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