Specifications

Eaton 002397

Catalog Number: 002397

Eaton Moeller® series DILE Auxiliary contact module, 4 pole, 1 N/O, 3 NC, Front fixing, Screw terminals, DILE(E)M, DILER



General specifications

Product Name
Eaton Moeller® series DILE Accessory Auxiliary contact module

Catalog Number
002397

EAN
4015080023975

Product Length/Depth
36 mm

Product Height
32 mm

Product Width
45 mm

Product Weight
0.04 kg

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

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Features & Functions

Electric connection type

Screw connection

Features

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

Fitted with:

Interlocked opposing contacts

Switching elements according to EN 50005

Functions

For standard applications

Number of poles

Four-pole

General

Lifespan, mechanical

200,000 Operations (at 240 V, AC-15)

10,000,000 Operations (AC operated)

20,000,000 Operations (DC operated)

150,000 Operations (at 240 V, DC, L/R = 50 ms: 2 contacts in series 0.5 A)

Model

Top mounting

Mounting method

Front fastening

Mounting position

As required (except vertical with terminals A1/A2 at the bottom)

Operating frequency

9000 Operations/h

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

Shock resistance

8 g, N/C contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms

10 g, N/O 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

50 °C

Ambient operating temperature (enclosed) - min

-25 °C

Terminal capacities

Terminal capacity (flexible with ferrule)

1 x (0.75 - 1.5) mm²

2 x (0.75 - 1.5) mm²

Terminal capacity (solid)

1 x (0.75 - 2.5) mm²

2 x (0.75 - 2.5) mm²

Terminal capacity (solid/stranded AWG)

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

Single 18 – 14, double 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 voltage (Ue) at AC - max

600 V

Rated insulation voltage (Ui)

690 V

Rated operational current (Ie)

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

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

2.5 A at 60 V, DC L/R ≤ 15 ms (with 2 contacts in series)

0.5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts 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

2 A

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

1.5 A

Safe isolation

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

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

Short-circuit rating

Short-circuit protection rating

10 A fast, 500V, Maximum fuse, Short-circuit rating without welding, Contacts

Short-circuit protection rating without welding

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

Conventional thermal current Ith

Conventional thermal current ith of auxiliary contacts (1-pole, open)

10 A

Switching capacity

Switching capacity (auxiliary contacts, general use)

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

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

Switching capacity (auxiliary contacts, pilot duty)

P300, DC operated (UL/CSA)

A600, AC operated (UL/CSA)

Contacts

Code number

53 E in combination with DILER-40(-G)

44 in combination with DILER-31(-G)

35 in combination with DILER-22

Control circuit reliability

< 2 λ, < 1 failure at 100,000,000 Operations (at 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)

3

Number of contacts (normally open contacts)

1

Design verification

Equipment heat dissipation, current-dependent Pvid

0 W

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

0.24 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

Resources

Catalogs

Product Range Catalog Switching and protecting motors

Switching and protecting motors - catalog

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

Characteristic curve

eaton-contactors-switch-dilm-characteristic-curve-002.eps

eaton-contactors-short-time-loading-dilm-characteristic-curve.eps

Declarations of conformity

DA-DC-00004747.pdf

DA-DC-00004764.pdf

Drawings

eaton-contactors-dimensions-210x002.eps

eaton-contactors-contact-dile-accessory-3d-drawing.eps

eCAD model

ETN.002397.edz

Installation instructions

IL03407009Z

mCAD model

DA-CD-hs_dile

DA-CS-hs_dile

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

Wiring diagrams

eaton-contactors-contact-dila-accessory-wiring-diagram-003.eps

switchgear must be observed.

10.13 Mechanical function

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

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