

Eaton 049823

Catalog Number: 049823

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

General specifications



Product Name	Catalog Number
Eaton Moeller® series DILE Accessory Auxiliary contact module	049823 EAN 4015080498230
Product Length/Depth	Product Height
31 mm	32 mm
Product Width	Product Weight
45 mm	0.04 kg

Certifications

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

Features & Functions

Electric connection type

Screw connection

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)

2 x (0.75 - 1.5) mm²

1 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)

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

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)

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

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

0.5 A at 220 V, DC L/R \leq 15 ms (with 3 contacts in series)

2.5 A at 24 V, DC L/R \leq 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

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)

A600, AC operated (UL/CSA)

P300, DC operated (UL/CSA)

Contacts

Code number

53 in combination with DILER-31(-G)

62 in combination with DILER-40(-G)

44 in combination with DILER-22

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)

Number of contacts

1 (normally closed, late break)

1 (normally open, early make)

Number of contacts (change-over contacts)

0

Number of contacts (normally closed contacts)

2

Number of contacts (normally open contacts)

2

Design verification

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

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

0.24 W

Rated operational current for specified heat dissipation (I_n)

4 A

Static heat dissipation, non-current-dependent P_{vs}

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

Resources

Catalogs

Product Range Catalog Switching and protecting motors

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

Switching and protecting motors - catalog

Characteristic curve

[eaton-contactors-short-time-loading-dilm-characteristic-curve.eps](#)

[eaton-contactors-switch-dilm-characteristic-curve-002.eps](#)

Declarations of conformity

[DA-DC-00004747.pdf](#)

[DA-DC-00004764.pdf](#)

Drawings

[eaton-contactors-diler-dimensions-002.eps](#)

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

eCAD model

[ETN.049823.edz](#)

Installation instructions

[IL03407009Z](#)

[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

[mCAD model](#)

[DA-CS-hs_dile](#)

[DA-CD-hs_dile](#)

[Wiring diagrams](#)

[eaton-contactors-contact-dila-accessory-wiring-diagram-007.eps](#)

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.



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