Specifications

Eaton 276429

Catalog Number: 276429

Eaton Moeller® series DILA Auxiliary contact module, 4 pole, Ith= 16 A, 1 N/O, 1 N/OE, 1 NC, 1 NCL, Front fixing, Screw terminals, DILA, DILM7 - DILM38



General specifications

Product Name
Eaton Moeller® series DILA Accessory Auxiliary contact module

Catalog Number
276429

EAN
4015082764296

Product Length/Depth
45 mm

Product Height
38 mm

Product Width
36 mm

Product Weight
0.048 kg

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

Powering Business Worldwide

Features & Functions

Functions

For standard applications

Number of poles

Four-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)

Lifespan, mechanical

10,000,000 Operations (AC operated)

10,000,000 Operations (DC operated)

Model

Top mounting

Mounting method

Front fastening

Connection

Screw terminals

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

Type

Front mounting auxiliary contact

Climatic environmental conditions

Ambient operating temperature - min

Terminal capacities

Terminal capacity (flexible with ferrule)

-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

2 x (0.75 - 2.5) mm², Screw terminals

1 x (0.75 - 2.5) mm², Screw terminals

Terminal capacity (solid)

2 x (0.75 - 2.5) mm², Screw terminals

1 x (0.75 - 2.5) mm², Screw terminals

Terminal capacity (solid/stranded AWG)

18 - 14, Screw terminals

Screw size

M3.5, Terminal screw

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)

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)

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

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

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

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

5 A at 220 V, DC L/R ≤ 15 ms (with 3 contacts in series)

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

0.5 A at 110 V, DC L/R ≤ 50 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

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)

P300, DC operated (UL/CSA)

A600, AC operated (UL/CSA)

Contacts

Code number

44 in combination with DILA(C)-22

53 in combination with DILA(C)-31

62 in combination with DILA(C)-40

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 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 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

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-00004810.pdf

DA-DC-00004792.pdf

DA-DC-00004880.pdf

DA-DC-00004816.pdf

DA-DC-00004976.pdf

DA-DC-00004937.pdf

DA-DC-00004881.pdf

DA-DC-00004992.pdf

DA-DC-00004983.pdf

DA-DC-00004819.pdf

DA-DC-00004777.pdf

DA-DC-00004972.pdf

DA-DC-00004988.pdf

DA-DC-00004784.pdf

DA-DC-00004811.pdf

DA-DC-00004910.pdf

DA-DC-00004912.pdf

DA-DC-00004913.pdf

DA-DC-00004246.pdf

DA-DC-00004878.pdf

DA-DC-00004996.pdf

DA-DC-00004815.pdf

DA-DC-00004783.pdf

DA-DC-00005005.pdf

Drawings

eaton-contactors-frame-dilm-dimensions.eps

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

eaton-contactors-module-dilm-dimensions.eps

eaton-contactors-mounting-dilm-dimensions.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.

eaton-contactors-contact-dilm-accessory-3d-drawing-008.eps

eCAD model

ETN.276429.edz

Installation instructions

eaton-contactors-dila-dilm7-15-dilmp20-instruction-leaflet-il03407013z.pdf

Installation videos

WIN-WIN with push-in technology

mCAD model

dil_a_xhi_4.stp

dil_a_xhi_4

Wiring diagrams

eaton-contactors-contact-dila-accessory-wiring-diagram-007.eps

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