

Eaton 278425

Catalog Number: 278425

Eaton Moeller® series DILM Auxiliary contact module, 2 pole, Ith= 10 A, 1 N/O, 1 NC, Side mounted, Screw terminals, DILM40 - DILM225A, -SI



General specifications

Product Name

Eaton Moeller® series DILM auxiliary contact module

Catalog Number

278425

Model Code

DILM1000-XHI11-SI

UPC

782116355303

EAN

4015082784256

Product Length/Depth

77 mm

Product Height

77 mm

Product Width

15 mm

Product Weight

0.041 kg

Certifications

CE

IEC/EN 60947

UL

CSA

CSA Class No.: 3211-04

CSA File No.: 012528

CSA-C22.2 No. 14-05

IEC/EN 60947-4-1

UL Category Control No.: NKCR

UL 508

UL File No.: E29184

VDE 0660

Product specifications

Rated operational current for specified heat dissipation (In)

4 A

Terminal capacity (flexible with ferrule)

2 x (0.75 - 2.5) mm²

1 x (0.75 - 2.5) mm²

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Ambient operating temperature (enclosed) - min

25 °C

Lamp holder

None

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Mounting method

Side mounting

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Ambient operating temperature (enclosed) - max

40 °C

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Ambient storage temperature - min

40 °C

Fitted with:

Interlocked opposing contacts

10.8 Connections for external conductors

Is the panel builder's responsibility.

Screw size

M3.5, Terminal screw

Rated conditional short-circuit current (Iq)

1 kA at 500 V

Resources

Catalogs

[SmartWire-DT Catalog](#)

[Product Range Catalog Switching and protecting motors](#)

[Switching and protecting motors - catalog](#)

Certification reports

[DA-DC-00004070.pdf](#)

[DA-DC-00004229.pdf](#)

Drawings

[eaton-contactors-contact-dilm-accessory-3d-drawing-006.eps](#)

eCAD model

[ETN.DILM1000-XHI11-SI](#)

Installation instructions

[IL03407034Z](#)

Installation videos

[WIN-WIN with push-in technology](#)

mCAD model

[dil_m32_xhi11_s.stp](#)

[dil_m32_xhi11_s](#)

Wiring diagrams

[2100SWI-122](#)

[eaton-contactors-mounting-dilm-accessory-wiring-diagram.eps](#)

Protection

Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274)

Ambient operating temperature - max

60 °C

Climatic proofing

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

Damp heat, constant, to IEC 60068-2-78

Features

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

Lifespan, electrical

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

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

0 W

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

1.5 A

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

Number of poles

Two-pole

Ambient operating temperature - min

-25 °C

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Safe isolation

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

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

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

Rated operational current (I_e) at AC-15, 220 V, 230 V, 240 V

6 A

Electric connection type

Screw connection

10.13 Mechanical function

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

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

Number of contacts (normally closed contacts)

1

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

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

0.11 W

Rated operational current (I_e) at AC-15, 380 V, 400 V, 415 V

4 A

Switching capacity (auxiliary contacts, general use)

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

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

Number of switches (fault signal)

0

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Rated operational current (I_e) at DC-13, 60 V

1.5 A

Conventional thermal current I_{th} at 60°C (3-pole, open)

10 A

Rated operational current (I_e)

6 A at 60 V, DC L/R \leq 15 ms (with 1 contact in series)

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

10 A at 24 V, DC L/R \leq 15 ms (with 1 contact in series)

3 A at 110 V, DC L/R \leq 15 ms (with 1 contact in series)

Short-circuit protection rating without welding

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

Terminal capacity (solid)

2 x (0.75 - 2.5) mm²

1 x (0.75 - 2.5) mm²

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.

Connection type

Screw connection

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

0.3 A

Terminal capacity (solid/stranded AWG)

18 - 14

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

Control circuit reliability

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

Overvoltage category

III

Degree of protection

IP20

Ambient storage temperature - max

80 °C

Rated operational voltage (U_e) at AC - max

500 V

Pollution degree

3

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Rated impulse withstand voltage (U_{imp})

6000 V

6000 V AC

10.10 Temperature rise

The panel builder is responsible for the temperature rise

calculation. Eaton will provide heat dissipation data for the devices.

Functions

For standard applications

Tightening torque

1.2 Nm, Screw terminals

Screwdriver size

0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
2, Terminal screw, Pozidriv screwdriver

Type

Side-mounting auxiliary contacts

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.7 Inscriptions

Meets the product standard's requirements.

Number of contacts (normally open contacts)

1

Short-circuit protection rating

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

Model

Top mounting

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

0.8 A

Number of contacts (change-over contacts)

0

Switching capacity (auxiliary contacts, pilot duty)

A600, AC operated (UL/CSA)
P300, DC operated (UL/CSA)

Rated insulation voltage (U_i)

690 V

Rated operational current (I_e) at DC-13, 24 V

2 A



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com
© 2023 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are
property of their respective
owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)