

Select your language

- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



DILM150-XHI20 - Auxiliary contact module, 2 pole, I_{th}= 16 A, 2 NO, Front fixing, Screw terminals, DILM40 - DILM170



277945 DILM150-XHI20

[Overview](#) [Specifications](#) [Resources](#)



277945 DILM150-XHI20

Auxiliary contact module, 2 pole, I_{th}= 16 A, 2 NO, Front fixing, Screw terminals, DILM40 - DILM170

Alternate Catalog No.

XTCEXFBG20

EL-Nummer (Norway)

4130494

Auxiliary contact module, with interlocked opposing contacts, Function: for standard applications, 2 pole, Connection technique: Screw terminals, Rated operational current AC-15 220 V 230 V 240 V: I_e= 6 A, Rated operational current AC-15 380 V 400 V 415 V: I_e= 4 A, Contacts N/O = Normally open: 2 NO, Mounting type: Front fixing, For use with: DILM40..., DILM50..., DILM65..., DILM72..., DILM80..., DILM95..., DILM115..., DILM150..., DILM170..., DILMP63..., DILMP80..., DILMP125..., DILMP160..., DILMP200..., DILMF40..., DILMF50..., DILMF65..., DILMF80..., DILMF95..., DILMF115..., DILMF150..., Type: Front mounting auxiliary contact, Instructions: Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module, Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not NC late open)

- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals

Delivery program

Accessories

Auxiliary contact modules

Description

with interlocked opposing contacts

Function

for standard applications

Number of poles

2 pole

Connection technique

Screw terminals

Rated operational current

Conventional free air thermal current, 1 pole Open at 60 °C [I_{th}]

16 A

AC-15 220 V 230 V 240 V [I_e]

6 A

AC-15 380 V 400 V 415 V [I_e]

4 A

Contacts

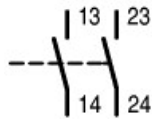
N/O = Normally open

2 NO

Mounting type

Front fixing

Contact sequence



For use with

DILM40...

DILM50...

DILM65...

DILM72...

DILM80...

DILM95...

DILM115...

DILM150...

DILM170...

DILMF63...

DILMF80...

DILMP125...

DILMP160...

DILMP200...

DILMF40...

DILMF50...

DILMF65...

DILMF80...

DILMF95...

DILMF115...

DILMF150...

Type

Front mounting auxiliary contact

Instructions

Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module

Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not NC late open)

Technical data

General

Standards

IEC/EN 60947, VDE 0660, UL, CSA

Component lifespan at $U_e = 230$ V, AC-15, 3 A [Operations]

1.3×10^6

Climatic proofing

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

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

Ambient temperature Open

-25 - +60 °C

Ambient temperature Enclosed

- 25 - 40 °C

Ambient temperature Ambient temperature, storage

- 40 - 80 °C

Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms Basic unit with auxiliary contact

module NO contact

7 g

Mechanical shock resistance (IEC/EN 60068-2-27) Half-sinusoidal shock, 10 ms Basic unit with auxiliary contact

module NC contact

5 g

Degree of Protection

IP20

Protection against direct contact when actuated from front (EN 50274)

Finger and back-of-hand proof

Weight

0.03 kg

Terminal capacities Screw terminals Solid

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Terminal capacities Screw terminals Flexible with ferrule

1 x (0.75 - 2.5)

2 x (0.75 - 2.5) mm²

Terminal capacities Screw terminals Solid or stranded

18 - 14 AWG

Terminal capacities Screw terminals Pozidriv screw driver

2 Size
 Terminal capacities Screw terminals Standard screw driver
 0.8 x 5.5
 1 x 6 mm
 Terminal capacities Screw terminals Max. tightening torque
 1.2 Nm
 Contacts
 Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-1 Annex L)
 Yes
 N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)
 DILM40 - DILM170
 Rated impulse withstand voltage [U_{imp}]
 6000 V AC
 Overvoltage category/pollution degree
 III/3
 Rated insulation voltage [U_i]
 690 V AC
 Rated operational voltage [U_e]
 500 V AC
 Safe isolation to EN 61140 between coil and auxiliary contacts
 440 V AC
 Safe isolation to EN 61140 between the auxiliary contacts
 440 V AC
 Rated operational current Conventional free air thermal current, 1 pole at 60 °C [I_{th}]
 16 A
 Rated operational current AC-15 220 V 230 V 240 V [I_e]
 6 A
 Rated operational current AC-15 380 V 400 V 415 V [I_e]
 4 A
 Rated operational current AC-15 500 V [I_e]
 1.5 A
 Rated operational current DC current
 Switch-on and switch-off conditions based on DC-13, time constant as specified.
 Rated operational current DC current DC L/R \square 15 ms Contacts in series: 1 [24 V]
 10 A
 Rated operational current DC current DC L/R \square 15 ms Contacts in series: 1 [60 V]
 6 A
 Rated operational current DC current DC L/R \square 15 ms Contacts in series: 1 [110 V]
 3 A
 Rated operational current DC current DC L/R \square 15 ms Contacts in series: 1 [220 V]
 1 A
 Rated operational current Control circuit reliability [Failure rate]
 $<10^{-8}$, < one failure at 100 million operations
 (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) λ
 Short-circuit rating without welding Short-circuit protection maximum fuse 500 V
 16 A gG/gL
 Current heat loss at I_{tr} AC operated
 3.7 W
 Current heat loss at I_{tr} DC operated
 3.7 W
 Current heat loss at I_{tr} Current heat loss per auxiliary circuit at I_e (AC-15/230 V)
 0.5 CO
 Rating data for approved types
 Auxiliary contacts Pilot Duty AC operated
 A600
 Auxiliary contacts Pilot Duty DC operated
 P300
 Auxiliary contacts General Use AC
 600 V
 Auxiliary contacts General Use AC
 15 A
 Auxiliary contacts General Use DC
 250 V
 Auxiliary contacts General Use DC
 1 A

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_n]

4 A

Heat dissipation per pole, current-dependent [P_{vd}]

0.23 W

Equipment heat dissipation, current-dependent [P_{vd}]

0 W

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

0 W

Heat dissipation capacity [P_{diss}]

0 W

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+60 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 Lifting

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

10.2 Strength of materials and parts 10.2.6 Mechanical impact

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

10.2 Strength of materials and parts 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 Insulation properties 10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9 Insulation properties 10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9 Insulation properties 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.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Auxiliary contact block (EC000041)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Component for low-voltage switching technology / Auxiliary switch block (ecl@ss10.0.1-27-37-13-02 [AKN342013])

Number of contacts as change-over contact

0

Number of contacts as normally open contact

2

Number of contacts as normally closed contact
0
Number of fault-signal switches
0
Rated operation current I_e at AC-15, 230 V
6 A
Type of electric connection
Screw connection
Model
Top mounting
Mounting method
Front fastening
Lamp holder
None

Approvals

Product Standards
IEC/EN 60947-4-1; UL 508; CSA-C22.2 No. 14-05; CE marking
UL File No.
E29184
UL Category Control No.
NKCR
CSA File No.
012528
CSA Class No.
3211-03
North America Certification
UL listed, CSA certified
Specially designed for North America
No

CAD data

- [Product-specific CAD data](#)
(Web)
- [3D Preview](#)
(Web)

DWG files

- [DA-CD-dil_m150_xhi_2](#)
File
(Web)

edz files

- [DA-CE-ETN.DILM150-XH120](#)
File
(Web)

Step files

- [DA-CS-dil_m150_xhi_2](#)
File
(Web)

Additional product information

- [Motor starters and "Special Purpose Ratings" for the North American market](#)
(PDF)
- [Switchgear of Power Factor Correction Systems](#)
(PDF)
- [X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely](#)
(PDF)
- [Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions](#)
(PDF)
- [Effect of the Cable Capacitance of Long Control Cables on the Actuation of Contactors](#)
(PDF)

- [Switchgear for Luminaires](#)
(PDF)
- [Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts](#)
(PDF)
- [The Interaction of Contactors with PLCs](#)
(PDF)
- [Busbar Component Adapters for modern Industrial control panels](#)
(PDF)

Product photo

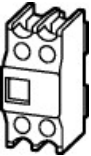


[2110PIC-5](#)

Photo

Auxiliary contact module

3D drawing

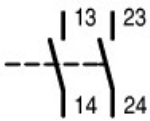


[210182](#)

Line drawing

2-pole screw terminal auxiliary contact module

Wiring diagram



[122S014](#)

Line drawing

Auxiliary contact for high-capacity miniature circuit-breaker

Instruction Leaflet

- [Auxiliary contact \(IL03407034Z\)](#)
Asset
(PDF, multilingual)

Declaration of Conformity

EU

- [DILM40-DILM72 - Contactors & contactor combinations \(DA-DC-00004070\)](#)
Asset
(PDF)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



Generate data sheet in PDF format



Generate data sheet in Excel format



[Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2021 by Eaton Industries GmbH

