DILM150-XHI02 - Auxiliary contact module, 2 pole, Ith= 16 A, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170

277947 DILM150-XHI02

Overview Specifications Resources

277947 DILM150-XHI02

Auxiliary contact module, 2 pole, Ith= 16 A, 2 NC, Front fixing, Screw terminals, DILM40 - DILM170

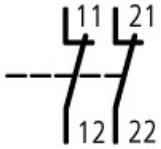
Alternate Catalog No.	XTCEXFBG02
EL-Nummer (Norway)	4130492

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: Ie= 6 A, Rated operational current AC-15 380 V 400 V 415 V: Ie= 4 A, Contacts N/C = Normally closed: 2 NC, 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 N/C 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 poleOpenat 60 °C [I_{th}]
16 A
AC-15220 V 230 V 240 V [I_e]
6 A
AC-15380 V 400 V 415 V [I_e]
4 A
Contacts
N/C = Normally closed
2 NC
Mounting type
Front fixing
Contact sequence



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 N/C late open)

Technical data

General
Standards
IEC/EN 60947, VDE 0660, UL, CSA
Component lifespanat U_e = 230 V, AC-15, 3 A [Operations]
1.3 x 10^6
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30
Ambient temperatureOpen
-25 - +60 °C
Ambient temperatureEnclosed
- 25 - 40 °C
Ambient temperatureAmbient temperature, storage
- 40 - 80 °C
Mechanical shock resistance (IEC/EN 60068-2-27)Half-sinusoidal shock, 10 msBasic unit with auxiliary contact moduleN/O contact
7 g
Mechanical shock resistance (IEC/EN 60068-2-27)Half-sinusoidal shock, 10 msBasic unit with auxiliary contact moduleN/C 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 capacitiesScrew terminalsSolid
1 x (0.75 - 2.5)
2 x (0.75 - 2.5) mm^2
Terminal capacitiesScrew terminalsFlexible with ferrule
1 x (0.75 - 2.5)
2 x (0.75 - 2.5) mm^2
Terminal capacitiesScrew terminalsSolid or stranded
18 – 14 AWG

Terminal capacities|Screw terminals|Pozidriv screwdriver
2 Size
Terminal capacities|Screw terminals|Standard screwdriver
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 □ 15 ms|Contacts in series:1 [24 V]
10 A
Rated operational current|DC current|DC L/R □ 15 ms|Contacts in series:1 [60 V]
6 A
Rated operational current|DC current|DC L/R □ 15 ms|Contacts in series:1 [110 V]
3 A
Rated operational current|DC current|DC L/R □ 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_{th},|AC operated
3.7 W
Current heat loss at I_{th}|DC operated
3.7 W
Current heat loss at I_{th}|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_{vid}]
0.23 W
Equipment heat dissipation, current-dependent [P_{vid}]
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 parts10.2.2 Corrosion resistance
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.1 Verification of thermal stability of enclosures
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.2 Verification of resistance of insulating materials to normal heat
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.3.3 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 parts10.2.4 Resistance to ultra-violet (UV) radiation
Meets the product standard's requirements.
10.2 Strength of materials and parts10.2.5 Lifting
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.6 Mechanical impact
Does not apply, since the entire switchgear needs to be evaluated.
10.2 Strength of materials and parts10.2.7 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 properties10.9.2 Power-frequency electric strength
Is the panel builder's responsibility.
10.9 Insulation properties10.9.3 Impulse withstand voltage
Is the panel builder's responsibility.
10.9 Insulation properties10.9.4 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

0
Number of contacts as normally closed contact
2
Number of fault-signal switches
0
Rated operation current Ie 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-XHI02
  File
  (Web)

Step files

- DA-CS-dil_m150_xhi_2
  File
  (Web)

Additional product information

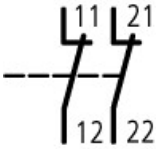
- Motor starters and "Special Purpose Ratings" for the North American market
  (PDF)
- Switchgear of Power Factor Correction Systems
  (PDF)
- X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely
  (PDF)
- Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions
  (PDF)
- Effect of the Cabel 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

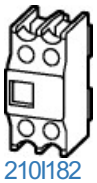
- 
2110PIC-5
Photo
Auxiliary contact module

Wiring diagram

- 

210S169
Line drawing
Auxiliary contact module contact representation

3D drawing

- 
210I182
Line drawing
2-pole screw terminal auxiliary contact module

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
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