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DILA-XHIC04 - Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38



276530 DILA-XHIC04

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



276530 DILA-XHIC04

Auxiliary contact module, 4 pole, Ith= 16 A, 4 NC, Front fixing, Spring-loaded terminals, DILA, DILM7 - DILM38

Alternate Catalog No.

XTCEXFAC004

EL-Nummer (Norway)

4110271

Auxiliary contact module, with interlocked opposing contacts, Switching elements according to EN 50005, Version E combinations correspond to EN 50011 and are to be preferred., The DC operated contactor DILA(C)-22 must only be combined with 2-pole auxiliary contacts., Function: for standard applications, 4 pole, Connection technique: Spring-loaded terminals, Rated operational current AC-15 220 V 230 V 240 V: Ie= 4 A, Rated operational current AC-15 380 V 400 V 415 V: Ie= 4 A, Contacts NC= Normally closed: 4 NC, Mounting type: Front fixing, For use with: DILA(C)..., DILM(C)7..., DILM(C)9..., DILM(C)12..., DILM(C)15..., DILM(C)17..., DILM(C)25..., DILM(C)32..., DILM38..., DILMP20..., DILMP32..., DILMP45..., DILL..., DILMF8..., DILMF11..., DILMF14..., DILMF17..., DILMF25..., DILMF32..., Type: Front mounting auxiliary contact, Instructions: Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILM7 - DILM32, Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not NC late open), Code number and version of combination Distinctive number: 44E, 35, 26

• [Delivery program](#)

• [Technical data](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

• [Approvals](#)

• [Dimensions](#)

Delivery program

Accessories

Auxiliary contact modules

Description

with interlocked opposing contacts

Switching elements according to EN 50005

Version E combinations correspond to EN 50011 and are to be preferred.

The DC operated contactor DILA(C)-22 must only be combined with 2-pole auxiliary contacts.

Function

for standard applications

Number of poles

4 pole

Connection technique

Spring-loaded 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]

4 A

AC-15380 V 400 V 415 V [I_e]

4 A

Contacts

N/C = Normally closed

4 NC

Mounting type

Front fixing

Contact sequence



For use with

DILA(C)...

DILM(C)7...

DILM(C)9...

DILM(C)12...

DILM(C)15...

DILM(C)17...

DILM(C)25...

DILM(C)32...

DILM38...

DILMP20...

DILMP32...

DILMP45...

DILL...

DILMF8...

DILMF11...

DILMF14...

DILMF17...

DILMF25...

DILMF32...

Type

Front mounting auxiliary contact

Instructions

Interlocked opposing contacts according to IEC/EN 60947-5-1 appendix L, inside the auxiliary contact modules, also for the integrated auxiliary contacts of the DILM7 - DILM32

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

Code number and version of combination

Distinctive number

44E

with basic device

DILA(C)-40

35

with basic device

DILA(C)-31

26

with basic device

DILA(C)-22

Technical data

General

Standards

IEC/EN 60947, VDE 0660, UL, CSA

Lifespan, mechanicalAC operated [Operations]

10×10^6

Lifespan, mechanicalDC operated [Operations]

10×10^6

Component lifespanat $U_e = 230 \text{ V}$, AC-15, 3 A [Operations]

1.3×10^6

Maximum operating frequency [Operations/h]

9000

Climatic proofing

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

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

Ambient temperatureOpen

-25 - +60 °C

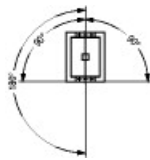
Ambient temperatureEnclosed

- 25 - 40 °C

Ambient temperatureAmbient temperature, storage

- 40 - 80 °C

Mounting positionMounting position



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

0.056 kg

Terminal capacities Screw terminals Terminal screw

M3.5

Terminal capacities Spring-loaded terminals Flexible with ferrule

1 x (0.75 - 1.5)

2 x (0.75 - 1.5) mm²

Terminal capacities Spring-loaded terminals Solid or stranded

18 - 14 AWG

Terminal capacities Spring-loaded terminals Standard screw driver

0.6 x 3.5 mm

Contacts

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

Yes

NC contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)

DILM7 - DILM32

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

400 V AC

Safe isolation to EN 61140 between the auxiliary contacts

400 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]

4 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: 2 [60 V]

10 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: 3 [110 V]

6 A

Rated operational current DC current DC L/R □ 15 ms Contacts in series: 1 [220 V]

1 A

Rated operational current DC current DC L/R □ 15 ms Contacts in series: 3 [220 V]

5 A

Rated operational current DC current DC L/R □ 50 ms Contacts in series: 3 [24 V]

2.5 A

Rated operational currentDC currentDC L/R □ 50 msContacts in series:3 [60 V]
1 A

Rated operational currentDC currentDC L/R □ 50 msContacts in series:3 [110 V]
0.5 A

Rated operational currentDC currentDC L/R □ 50 msContacts in series:3 [220 V]
0.25 A

Rated operational currentDC currentDC-13 (6xP)24 V [I_e]
2.5 A

Rated operational currentDC currentDC-13 (6xP)60 V [I_e]
1 A

Rated operational currentDC currentDC-13 (6xP)110 V [I_e]
0.5 A

Rated operational currentDC currentDC-13 (6xP)220 V [I_e]
0.25 A

Rated operational currentControl 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 weldingShort-circuit protection maximum fuse500 V
10 A gG/gL

Current heat loss at I_T AC operated
2.6 W

Current heat loss at I_T DC operated
2.6 W

Current heat loss at I_T Current heat loss per auxiliary circuit at I_e (AC-15/230 V)
0.16 W

Rating data for approved types

Auxiliary contactsPilot DutyAC operated
A600

Auxiliary contactsPilot DutyDC operated
P300

Auxiliary contactsGeneral UseAC
600 V

Auxiliary contactsGeneral UseAC
10 A

Auxiliary contactsGeneral UseDC
250 V

Auxiliary contactsGeneral UseDC
1 A

Design verification as per IEC/EN 61439

Technical data for design verification

Rated operational current for specified heat dissipation [I_T]

4 A

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

0.16 W

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

0 W

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

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 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 (ec1@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
 4
 Number of fault-signal switches
 0
 Rated operation current I_e at AC-15, 230 V
 4 A
 Type of electric connection
 Spring clamp 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

Dimensions

Contactor with auxiliary contact module

CAD data

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

DWG files

- [DA-CD-dil_m32_xhic_4](#)
File
(Web)

edz files

- [DA-CE-ETN.DILA-XHIC04](#)
File
(Web)

Step files

- [DA-CS-dil_m32_xhic_4](#)
File
(Web)

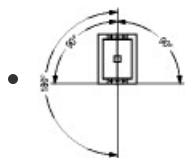
Additional product information

- [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)

Wiring diagram

- [210S006](#)
Line drawing
4-pole auxiliary contact module

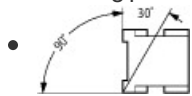
Dimensions single product



210N017

Line drawing

Mounting position



210N018

Line drawing

Mounting position



210T013

Line drawing

Contactor base unit frame size 1



210X201

Line drawing

Contactor with auxiliary contact module

3D drawing



210I107

Line drawing

4-pole springloaded terminal auxiliary contact module

Product photo



210A278

Photo

4-pole springloaded terminal auxiliary contact module

Instruction Leaflet

- [DILA, DILM7 - DILM15 Contactors \(IL03407013Z\)](#)

Asset

former AWA2100-2126

(PDF, 05/2020, multilingual)

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