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Powering Business Worldwide

DILM12-XHI31-PI - Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Push in terminals, DILM7 - DILM15



199459 DILM12-XHI31-PI

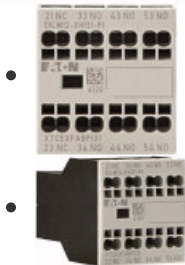
[Overview](#) [Specifications](#) [Resources](#)



199459 DILM12-XHI31-PI

Auxiliary contact module, 4 pole, Ith= 16 A, 3 N/O, 1 NC, Front fixing, Push in terminals, DILM7 - DILM15
Alternate Catalog No. XTCEXFABPI31

Auxiliary contact module, with interlocked opposing contacts, for standard applications, Front mounting auxiliary contact, Front fixing, 4 pole, Push in terminals, Conventional free air thermal current, 1 pole, Open, at 60 °C: Ith = 16 A, Rated operational current AC-15, 220 V 230 V 240 V: Ie = 4 A, 380 V 400 V 415 V: Ie = 4 A, Ie, N/O = Normally open: 3 N/O, N/C = Normally closed: 1 NC, For use with: DILM7...-PI, DILM9...-PI, DILM12...-PI, DILM15...-PI, DILMP20...-PI



• [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

Function

for standard applications

Number of poles

4 pole

Connection technique

Push in 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/O = Normally open

3 N/O

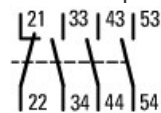
N/C = Normally closed

1 NC

Mounting type

Front fixing

Contact sequence



For use with

DILM7...-PI

DILM9...-PI

DILM12...-PI

DILM15...-PI

DILMP20...-PI

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)

Technical data

General

Standards

IEC/EN 60947, VDE 0660, UL, CSA

Component lifespan at $U_b = 230$ 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

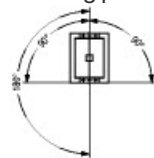
Ambient temperature Enclosed

- 25 - 40 °C

Ambient temperature Ambient temperature, storage

- 40 - 80 °C

Mounting position Mounting position



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

7 g

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

0.05 kg

Terminal capacities Push-in terminals Solid

1 x (0,5 - 2,5)

2 x (0,5 - 2,5) mm²

Terminal capacities Push-in terminals flexible

1 x (0,5 - 2,5)

2 x (0,5 - 2,5) mm²

Terminal capacities Push-in terminals flexible with ferrules

1 x (0,5 - 1,5)

2 x (0,5 - 1,5) mm²

Terminal capacities Push-in terminals flexible with ultrasonic welded busbar end

1 x (0,5 - 2,5)

2 x (0,5 - 2,5) mm²

Terminal capacities Push-in terminals flexible with uninsulated wire end ferrule
1 x (0,5 - 2,5)
2 x (0,5 - 2,5) mm²
Terminal capacities Push-in terminals Solid or stranded
20 - 14 AWG
Terminal capacities Push-in terminals Stripping length
10 mm
Terminal capacities Push-in terminals Standard screw driver
3.0 x 0.5
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)
DILM7 - DILM32
Rated impulse withstand voltage [U_{imp}]
6000 V AC
Overvoltage category/pollution degree
III/3
Rated insulation voltage [U]
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: 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 DC current DC-13 (6xP) 24 V [I_e]
2.5 A
Rated operational current DC current DC-13 (6xP) 60 V [I_e]
1 A
Rated operational current DC current DC-13 (6xP) 110 V [I_e]
0.5 A
Rated operational current DC current DC-13 (6xP) 220 V [I_e]
0.25 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
10 A gG/gL
Current heat loss at I_{th} AC operated
2.6 W
Current heat loss at I_{th} DC operated
2.6 W
Current heat loss at I_{th} Current heat loss per auxiliary circuit at I_e (AC-15/230 V)
0.16 °C
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
10 A
Auxiliary contacts General Use DC
250 V
Auxiliary contacts General Use DC
1 A

Design verification as per IEC/EN 61439

Operating ambient temperature min.
-25 °C
Operating ambient temperature max.
+60 °C

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 [AKNB42013])
Number of contacts as change-over contact
0
Number of contacts as normally open contact
3
Number of contacts as normally closed contact
1
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

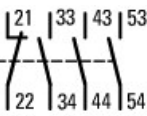


Additional product information


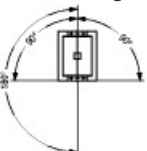
- [Motor starters and "Special Purpose Ratings" for the North American market \(PDF\)](#)
- [Switchgear of Power Factor Correction Systems \(PDF\)](#)
- [X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely \(PDF\)](#)

- [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

- 
[2100SWM-12](#)
Line drawing
Front mounting auxiliary contacts

Dimensions single product

- 
[2100DIM-74](#)
Line drawing
- 
[210ND17](#)
Line drawing
Mounting position

Instruction Leaflet

- [DILM Contactors \(IL034107ZU\)](#)
(PDF, 05/2021, en)

Declaration of Conformity

EU

- [DILM7...-PI - DILM15...-PI - Contactors & Contactor combinations \(DA-DC-00004059\)](#)
Asset
(PDF)

UK

- [DILM7...-PI - DILM15...-PI - Contactors & Contactor combinations \(DA-DC-00004209\)](#)
Asset
(PDF)

Product photo

- 
[DILM12-XH31-PI_C](#)
Photo
Auxiliary contact module

(Web)

-



[DILM12-XH31-PI_L](#)

Photo

Auxiliary contact module

(Web)

-



[DILM12-XH31-PI_R](#)

Photo

Auxiliary contact module

(Web)

CAD data

Step files

- [DA-CD-dil_a_xhi_4_pi](#)
File
(Web, Language independent)
- [DA-CS-dil_a_xhi_4_pi](#)
File
(Web, Language independent)

edz files

- [DA-CE-ETN.DILM12-XH31-PI](#)
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