



- German
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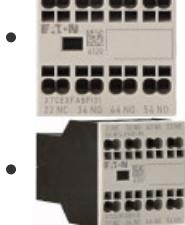
Worldwide English



Powering Business Worldwide

DILM12-XHI31-PI - Auxiliary contact module, 4 pole, I_{th} = 16 A, 3 NO, 1 NC, Front fixing, Push in terminals, DILM7 - DILM15

199459 DILM12-XHI31-PI

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199459 DILM12-XHI31-PI

Auxiliary contact module, 4 pole, I_{th} = 16 A, 3 NO, 1 NC, Front fixing, Push in terminals, DILM7 - DILM15
Alternate Catalog No. [XTCEXFABP131](#)

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. I_{th} = 16 A, Rated operational current AC-15, 220 V 230 V 240 V: I_e = 4 A, 380 V 400 V 415 V: I_e = 4 A, le, N/O = Normally open: 3 NO, N/C = Normally closed: 1 NC, For use with: DILM7...-PI, DILM9...-PI, DILM12...-PI, DILM15...-PI, DILMP20...-PI

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 poleOpen at 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

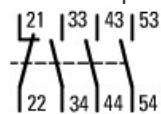
3 NO
NC = Normally closed

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 DILM 7 - DILM82

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 $U_e = 230$ 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

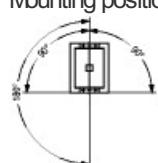
Ambient temperature Enclosed

-25 - 40 °C

Ambient temperature Ambient temperature, storage

-40 - 80 °C

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 capacitiesPush-in terminalsflexible with uninsulated wire end ferrule
 1 x (0,5 - 2,5)
 2 x (0,5 - 2,5) mm²
 Terminal capacitiesPush-in terminalsSolid or stranded
 20 - 14 AWG
 Terminal capacitiesPush-in terminalsStripping length
 10 mm
 Terminal capacitiesPush-in terminalsStandard screw driver
 3.0 x 0.5
 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]
 690 V AC
 Rated operational voltage [U_e]
 500 V AC
 Safe isolation to EN 61140between coil and auxiliary contacts
 400 V AC
 Safe isolation to EN 61140between the auxiliary contacts
 400 V AC
 Rated operational currentConventional free air thermal current, 1 poleat 60 °C [I_{th}]
 16 A
 Rated operational currentAC 15220 V 230 V 240 V [I_e]
 4 A
 Rated operational currentAC 15380 V 400 V 415 V [I_e]
 4 A
 Rated operational currentAC 15500 V [I_e]
 1.5 A
 Rated operational currentDC current
 Switch-on and switch-off conditions based on DC-13, time constant as specified.
 Rated operational currentDC currentDC L/R □ 15 ms Contacts in series:1 [24 V]
 10 A
 Rated operational currentDC currentDC L/R □ 15 ms Contacts in series:1 [60 V]
 6 A
 Rated operational currentDC currentDC L/R □ 15 ms Contacts in series:1 [110 V]
 3 A
 Rated operational currentDC currentDC L/R □ 15 ms Contacts in series:1 [220 V]
 1 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_{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 CO
 Rating data for approved types
 Auxiliary contactsPilot DutyAC operated
 A600
 Auxiliary contactsPilot DutyDC operated
 P300
 Auxiliary contactsGeneral UseAC

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

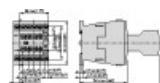
Technical data ETIM 7.0

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 (ecl@ss10.0.1-27-37-13-02 [AKN342013])
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

- 
2100SW-12
Line drawing
Front mounting auxiliary contacts

Dimensions single product

- 
2100DIM-74
Line drawing
- 
210N017
Line drawing
Mounting position

Instruction Leaflet

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

Declaration of Conformity

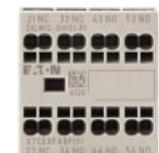
EU

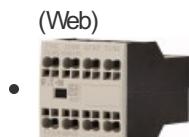
- [DILM7...-Pi - DILM15...-Pi - Contactors & Contactor combinations \(DA-DC-00004059\) Asset \(PDF\)](#)

UK

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

Product photo

- 
DILM12-XH131-Pi_C
Photo
Auxiliary contact module

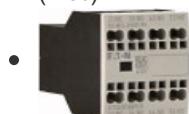


[DILM12-XH31-PI_L](#)

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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(Web, Language independent)

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