



199312
DILM 32-XHI31-PI

Overview

Specifications

Resources



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 pole
Open
at 60 °C [I_{th}]
16 A

AC-15
220 V 230 V 240 V [L_e]
4 A

AC-15
380 V 400 V 415 V [L_e]
4 A

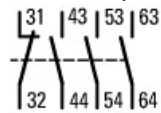
Contacts

NO = Normally open
3 NO

NC = Normally closed
1 NC

Mounting type
Front fixing

Contact sequence



For use with
DILA...-PI
DILM7...-PI
DILM9...-PI
DILM12...-PI
DILM15...-PI
DILM17...-PI
DILM25...-PI
DILM32...-PI
DILM38...-PI
DILMP20...-PI
DILMP32...-PI
DILMP45...-PI
DILM8...-PI
DILM11...-PI
DILM14...-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 $U_b = 230\text{ V}$, AC-15, 3 A [Operations]
 1.3×10^6

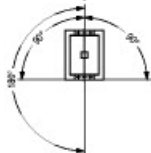
Climatic proofing
Damp heat, constant, to IEC 60068-2-78
Damp heat, cyclic, to IEC 60068-2-30

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
NO 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_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 \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
DC current
DC-13 (6xP)
24 V [I_e]
2.5 A

Rated operational current

DC current
DC-13 (6xP)
60 V [U_e]
1 A

Rated operational current
DC current
DC-13 (6xP)
110 V [U_e]
0.5 A

Rated operational current
DC current
DC-13 (6xP)
220 V [U_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 CO

Rating data for approved types

Auxiliary contacts
Flot Duty
AC operated
A600

Auxiliary contacts
Flot 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 (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



