



199311  
DILM 32-XHI22-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 [I<sub>e</sub>]  
4 A

AC-15  
380 V 400 V 415 V [I<sub>e</sub>]  
4 A

## Contacts

N/O = Normally open  
2 NO

N/C = Normally closed  
2 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]  
 $1.3 \times 10^6$

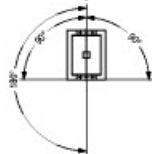
Climatic proofing  
Damp heat, constant, to IEC 60068-2-78  
Damp heat, cyclic, to IEC 60068-2-30

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

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  
0.05 kg

Terminal capacities  
Push-in terminals  
Solid  
1 x (0,5 - 2,5)  
2 x (0,5 - 2,5) mm<sup>2</sup>

Terminal capacities  
Push-in terminals  
flexible  
1 x (0,5 - 2,5)  
2 x (0,5 - 2,5) mm<sup>2</sup>

Terminal capacities  
Push-in terminals  
flexible with ferrules  
1 x (0,5 - 1,5)  
2 x (0,5 - 1,5) mm<sup>2</sup>

Terminal capacities  
Push-in terminals  
flexible with ultrasonic welded busbar end  
1 x (0,5 - 2,5)  
2 x (0,5 - 2,5) mm<sup>2</sup>

Terminal capacities  
Push-in terminals  
flexible with uninsulated wire end ferrule  
1 x (0,5 - 2,5)  
2 x (0,5 - 2,5) mm<sup>2</sup>

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 [ $I_e$ ]  
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<sup>-8</sup>, < one failure at 100 million operations  
(at  $U_e = 24$  V DC,  $U_{min} = 17$  V,  $I_{min} = 5.4$  mA)  $\lambda$

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 (ec1@ss10.0.1-27-37-13-02  
[AKN342013])

Number of contacts as change-over contact  
0

Number of contacts as normally open contact  
2



Number of contacts as normally closed contact  
2

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



