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DILM820-XH11V-SI - Auxiliary contact module, 2 pole, 1 NOE, 1 NCL, Screw terminals



208283 DILM820-XH11V-SI

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## 208283 DILM820-XH11V-SI

Auxiliary contact module, 2 pole, 1 NOE, 1 NCL, Screw terminals

Alternate Catalog No.

XTCEXSBLR11

EL-Nummer (Norway)

4134093

Auxiliary contact module, Function: for standard applications, 2 pole, Connection technique: Screw terminals, Rated operational current AC-15 220 V 230 V 240 V:  $I_e=4\text{ A}$ , Rated operational current AC-15 380 V 400 V 415 V:  $I_e=4\text{ A}$ , Rated operational current AC-15 380 V 400 V 500 V:  $I_e=4\text{ A}$ , Contacts NOE NO early-make: 1 NOE, Contacts NCL=NC late-break: 1 NCL, Mounting type: Side mounted, For use with: DILM250 - DILH2600, DILDC300 - DILDC600, Type: Side-mounting auxiliary contacts

### Delivery program

Accessories  
Auxiliary contact modules  
Function  
for standard applications  
Number of poles  
2 pole  
Connection technique  
Screw terminals  
Rated operational current  
Conventional free air thermal current, 1 pole  $I_{th} \text{Openat } 60\text{ }^\circ\text{C}$  [ $I_{tr}$ ]  
10 A  
AC-15 220 V 230 V 240 V [ $I_e$ ]  
4 A  
AC-15 380 V 400 V 415 V [ $I_e$ ]  
4 A  
AC-15 380 V 400 V 500 V [ $I_e$ ]  
4 A  
Contacts  
NO<sub>E</sub>: NO early-make  
1 NO<sub>E</sub>  
NC<sub>L</sub>=NC late-break  
1 NC<sub>L</sub>  
Mounting type  
Side mounted  
Contact sequence  
  
For use with  
DILM250 - DILH2600  
DILDC300 - DILDC600  
Type  
Side-mounting auxiliary contacts

### Technical data

General  
Standards  
IEC/EN 60947, VDE 0660, UL, CSA  
Component lifespan at  $U_e = 230\text{ V}$ , 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 temperatureOpen  
 -40 - +60 °C  
 Ambient temperatureEnclosed  
 - 25 - 40 °C  
 Ambient temperatureAmbient temperature, storage  
 - 40 - 80 °C  
 Degree of Protection  
 IP20  
 Protection against direct contact when actuated from front (EN 50274)  
 Finger and back-of-hand proof  
 Weight  
 0.04 kg  
 Terminal capacitiesScrew terminalsSolid  
 1 x (0.75 - 2.5)  
 2 x (0.75 - 2.5) mm<sup>2</sup>  
 Terminal capacitiesScrew terminalsFlexible with ferrule  
 1 x (0.75 - 2.5)  
 2 x (0.75 - 2.5) mm<sup>2</sup>  
 Terminal capacitiesScrew terminalsSolid or stranded  
 18 – 14 AWG  
 Terminal capacitiesScrew terminalsPozidriv screw driver  
 2 Size  
 Terminal capacitiesScrew terminalsStandard screw driver  
 0.8 x 5.5  
 1 x 6 mm  
 Terminal capacitiesScrew terminalsMax. tightening torque  
 1.2 Nm  
 Contacts  
 Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5-1 Annex L)  
 no  
 N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F)  
 DILM250 - DILH2600  
 Rated impulse withstand voltage [U<sub>imp</sub>]  
 6000 V AC  
 Overvoltage category/pollution degree  
 III/3  
 Rated insulation voltage [U]  
 690 V AC  
 Rated operational voltage [U<sub>e</sub>]  
 500 V AC  
 Safe isolation to EN 61140between coil and auxiliary contacts  
 440 V AC  
 Safe isolation to EN 61140between the auxiliary contacts  
 440 V AC  
 Safe isolation to EN 61140Between auxiliary contacts and main contacts  
 440 V AC  
 Rated operational currentConventional free air thermal current, 1 pole at 60 °C [I<sub>tr</sub>]  
 10 A  
 Rated operational currentAC-15220 V 230 V 240 V [I<sub>e</sub>]  
 4 A  
 Rated operational currentAC-15380 V 400 V 415 V [I<sub>e</sub>]  
 4 A  
 Rated operational currentAC-15500 V [I<sub>e</sub>]  
 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 msContacts in series:1 [24 V]  
 10 A  
 Rated operational currentDC currentDC L/R □ 15 msContacts in series:1 [60 V]  
 6 A  
 Rated operational currentDC currentDC L/R □ 15 msContacts in series:1 [110 V]  
 3 A  
 Rated operational currentDC currentDC L/R □ 15 msContacts in series:1 [220 V]  
 1 A  
 Rated operational currentDC currentDC-13 (6xP)24 V [I<sub>e</sub>]  
 2 A  
 Rated operational currentDC currentDC-13 (6xP)60 V [I<sub>e</sub>]  
 1.5 A  
 Rated operational currentDC currentDC-13 (6xP)110 V [I<sub>e</sub>]  
 0.8 A  
 Rated operational currentDC currentDC-13 (6xP)220 V [I<sub>e</sub>]  
 0.3 A  
 Rated operational currentControl circuit reliability [Failure rate]  
 <math>10^{-8}</math>, <math>< 1</math> failure at 100 million operations  
 (at U<sub>b</sub> = 24 V DC, U<sub>min</sub> = 17 V, I<sub>min</sub> = 5.4 mA) λ  
 Short-circuit rating without weldingMaximum overcurrent protective deviceShort-circuit protection only  
 FAZ-C4/1  
 Short-circuit rating without weldingShort-circuit protection maximum fuse500 V  
 16 A gG/gL  
 Rated conditional short-circuit current 500 V [I<sub>c</sub>]  
 1 kA  
 Current heat loss at I<sub>tr</sub>AC operated  
 0.69 W

Current heat loss at  $I_T$  DC operated  
 0.69 W  
 Current heat loss at  $I_T$  Current heat loss per auxiliary circuit at  $I_C$  (AC-15/230 V)  
 0.11 W  
 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  
 15 A  
 Auxiliary contacts General Use DC  
 250 V  
 Auxiliary contacts General Use DC  
 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 [ $P_{vid}$ ]

0.11 W

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

0 W

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

0 W

Heat dissipation capacity [ $P_{diss}$ ]

0 W

Operating ambient temperature min.

-40 °C

Operating ambient temperature max.

+60 °C

IEC/EN 61439 design verification

10.2 Strength of materials and parts 10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.3.3 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 parts 10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2 Strength of materials and parts 10.2.5 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 (L) 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 (ecl@ss10.0.1-27-37-13-02 [AKN842013])

Number of contacts as change-over contact

0

Number of contacts as normally open contact

1  
Number of contacts as normally closed contact  
1  
Number of fault-signal switches  
0  
Rated operation current I<sub>e</sub> at AC-15, 230 V  
6 A  
Type of electric connection  
Screw connection  
Model  
Top mounting  
Mounting method  
Side mounting  
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.  
3211-04  
North America Certification  
UL listed, CSA certified  
Specially designed for North America  
No

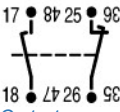
## CAD data

- [Product-specific CAD data](#)  
(Web)
- [3D Preview](#)  
(Web)
- [DA-CD-dil\\_m32\\_xhi11\\_s](#)  
CAD data  
DWG files  
(Web)
- [DA-CE-ETNDILM820-XHI11V-SI](#)  
CAD data  
edz files  
(Web)
- [DA-CS-dil\\_m32\\_xhi11\\_s](#)  
CAD data  
Step files  
(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

-   
Contact sequence  
Wiring diagram

Line drawing  
Side mounting auxiliary contact module

## 3D drawing

- [2101014](#)  
3D drawing  
Line drawing  
Auxiliary contact module

## Product photo



[Photo](#)  
Product photo  
Photo

## Symbol

- [0000SPC-173](#)  
Symbol  
Graphic  
Logo new yellow small

## Declaration of Conformity


- [DA-DC-00002865](#)  
Declaration of Conformity  
(PDF)
- [DA-DC-00003249](#)  
Declaration of Conformity  
(PDF)
- [DA-DC-00003250](#)  
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