

Auxiliary contact module, 2 pole, I_{th}= 10 A, 1 N/OE, 1 NCL, Side mounted, Screw terminals, DILM250 - DILH2600



Part no. DILM820-XHI11V-SI
Catalog No. 208283
Alternate Catalog No. XTCEXSBLR11
EL-Nummer (Norway) 4134093

Similar to illustration

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 | | | |
| Open | | | |
| at 60 °C | I _{th} | A | 10 |
| AC-15 | | | |
| 220 V 230 V 240 V | I _e | A | 6 |
| 380 V 400 V 415 V | I _e | A | 4 |
| 380 V 400 V 500 V | I _e | A | 1.5 |
| Contacts | | | |
| N/O _E : NO early-make | | | 1 N/O _E |
| NC _L =NC late-break | | | 1 NC _L |
| Mounting type | | | Side mounted |
| 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 V, AC-15, 3 A | Operations | x 10 ⁶ | 1.3 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -40 - +60 |
| Enclosed | | °C | - 25 - 40 |
| Ambient temperature, storage | | °C | - 40 - 80 |
| Degree of Protection | | | IP20 |
| Protection against direct contact when actuated from front (EN 50274) | | | Finger and back-of-hand proof |
| Weight | | kg | 0.04 |
| Terminal capacities | | mm ² | |
| Screw terminals | | | |
| Solid | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Flexible with ferrule | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Solid or stranded | | AWG | 18 – 14 |
| Pozidriv screwdriver | | Size | 2 |
| Standard screwdriver | | mm | 0.8 x 5.5 |

| | | | |
|------------------------|--|----|-------|
| | | | 1 x 6 |
| Max. tightening torque | | Nm | 1.2 |

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_{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated insulation voltage | U_i | V AC | 690 |
| Rated operational voltage | U_e | V AC | 500 |
| Safe isolation to EN 61140 | | | |
| between coil and auxiliary contacts | | V AC | 440 |
| between the auxiliary contacts | | V AC | 440 |
| Between auxiliary contacts and main contacts | | V AC | 440 |
| Rated operational current | | A | |
| Conventional free air thermal current, 1 pole | | | |
| at 60 °C | I_{th} | A | 10 |
| AC-15 | | | |
| 220 V 230 V 240 V | I_e | A | 6 |
| 380 V 400 V 415 V | I_e | A | 4 |
| 500 V | I_e | A | 1.5 |
| DC current | | | |
| | | | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| DC L/R \leq 15 ms | | | |
| Contacts in series: | | A | |
| 1 | 24 V | A | 10 |
| 1 | 60 V | A | 6 |
| 1 | 110 V | A | 3 |
| 1 | 220 V | A | 1 |
| DC-13 (6xP) | | | |
| 24 V | I_e | A | 2 |
| 60 V | I_e | A | 1.5 |
| 110 V | I_e | A | 0.8 |
| 220 V | I_e | A | 0.3 |
| Control circuit reliability | Failure rate | λ | $<10^{-8}$, < one failure at 100 million operations (at $U_e = 24$ V DC, $U_{min} = 17$ V, $I_{min} = 5.4$ mA) |
| Short-circuit rating without welding | | | |
| Maximum overcurrent protective device | | | |
| Short-circuit protection only | | | FAZ-C4/1 |
| Short-circuit protection maximum fuse | | | |
| 500 V | | A gG/gL | 16 |
| Rated conditional short-circuit current 500 V | I_q | kA | 1 |
| Current heat loss at I_{th} | | | |
| AC operated | | W | 0.69 |
| DC operated | | W | 0.69 |
| Current heat loss per auxiliary circuit at I_e (AC-15/230 V) | | CO | 0.11 |

Rating data for approved types

| | | | |
|--------------------|--|---|------|
| Auxiliary contacts | | | |
| Pilot Duty | | | |
| AC operated | | | A600 |
| DC operated | | | P300 |
| General Use | | | |
| AC | | V | 600 |
| AC | | A | 15 |
| DC | | V | 250 |

| | | |
|----|---|---|
| DC | A | 1 |
|----|---|---|

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|--|------------|----|--|
| Rated operational current for specified heat dissipation | I_n | A | 6 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0.11 |
| Equipment heat dissipation, current-dependent | P_{vid} | W | 0.25 |
| Static heat dissipation, non-current-dependent | P_{vs} | W | 0 |
| Heat dissipation capacity | P_{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -40 |
| Operating ambient temperature max. | | °C | 60 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | |
| | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | |
| | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | |
| | | | Meets the product standard's requirements. |
| 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. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | |
| | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | |
| | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | |
| | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 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. |
| 10.9.3 Impulse withstand voltage | | | |
| | | | Is the panel builder's responsibility. |
| 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 (IL) is observed. |

Technical data ETIM 8.0

| 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 | | | 1 |
| Number of contacts as normally closed contact | | | 1 |
| Number of fault-signal switches | | | 0 |
| Rated operation current I_e at AC-15, 230 V | | A | 6 |
| Type of electric connection | | | Screw connection |
| Model | | | Top mounting |
| Mounting method | | | Side mounting |
| Lamp holder | | | None |