



Auxiliary contact module, Type: Front mounting auxiliary contact, 4 pole, I_{th}= 16 A, 1 N/O, 3 NC, Front fixing, Screw terminals



Part no. DILM150-XHI13
Catalog No. 277951
Alternate Catalog No. XTCEXFBG13
EL-Nummer 4130496
(Norway)

Delivery program

| | | | | |
|---|-----------------|---|--|---|
| Accessories | | | | Auxiliary contact modules |
| Description | | | | with interlocked opposing contacts |
| Function | | | | for standard applications |
| Number of poles | | | | 4 pole |
| Connection technique | | | | Screw terminals |
| Rated operational current | | | | |
| Conventional free air thermal current, 1 pole | | | | |
| Open | | | | |
| at 60 °C | I _{th} | A | | 16 |
| AC-15 | | | | |
| 220 V 230 V 240 V | I _e | A | | 6 |
| 380 V 400 V 415 V | I _e | A | | 4 |
| Contacts | | | | |
| N/O = Normally open | | | | 1 N/O |
| N/C = Normally closed | | | | 3 NC |
| Mounting type | | | | Front fixing |
| Contact sequence | | | | |
| For use with | | | | DILM40... DILM50... DILM65... DILM72... DILM80... DILM95... DILM115... DILM150... DILM170... DILMP63... DILMP80... DILMP125... DILMP160... DILMP200... DILMF40... DILMF50... DILMF65... DILMF80... DILMF95... DILMF115... DILMF150... |
| Type | | | | Front mounting auxiliary contact |
| Instructions | | | | Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module 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 | 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 | -25 - +60 |
| Enclosed | | °C | - 25 - 40 |
| Ambient temperature, storage | | °C | - 40 - 80 |
| Mechanical shock resistance (IEC/EN 60068-2-27) | | | |
| Half-sinusoidal shock, 10 ms | | | |
| Basic unit with auxiliary contact module | | g | |
| N/O contact | | g | 7 |
| N/C contact | | g | 5 |
| Degree of Protection | | | IP20 |
| Protection against direct contact when actuated from front (EN 50274) | | | Finger and back-of-hand proof |
| Weight | | kg | 0.055 |
| 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) | | | | Yes |
| N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F) | | | | DILM40 - DILM170 |
| 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 |
| Rated operational current | | | A | |
| Conventional free air thermal current, 1 pole | | | | |
| at 60 °C | I_{th} | A | | 16 |
| 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 |
| 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 | | | | |
| Short-circuit protection maximum fuse | | | | |
| 500 V | | A gG/gL | | 16 |
| Current heat loss at I_{th} | | | | |
| AC operated | | W | | 3.7 |

| | | | |
|---|--|----|-----|
| DC operated | | W | 3.7 |
| Current heat loss per auxiliary circuit at I ₀ (AC-15/230 V) | | CO | 0.5 |

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 | 4 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.23 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| 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 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 | | 1 |
| Number of contacts as normally closed contact | | 3 |
| Number of fault-signal switches | | 0 |
| Rated operation current Ie at AC-15, 230 V | A | 6 |
| Type of electric connection | | Screw 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 |

Assets (links)

Declaration of CE Conformity

00002872

Instruction Leaflets

IL03407034Z2018_05