DATASHEET - DILM150-XHI11



Auxiliary contact module, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, DILM40 - DILM170



DILM150-XHI11 Part no. Catalog No. 277946 **Alternate Catalog** XTCEXFBG11

No.

4130493 **EL-Nummer**

(Norway)

| Delivery program | | | |
|--|-----------------|----|--|
| Accessories | | | Auxiliary contact modules |
| Description | | | with interlocked opposing contacts |
| Function | | | for standard applications |
| Number of poles | | | 2 pole |
| Connection technique | | | Screw terminals |
| Rated operational current | | | 2 pole Screw terminals 16 6 4 |
| Conventional free air thermal current, 1 pole | | | 141 |
| Open | | | 6/2 |
| at 60 °C | I _{th} | Α | 16 |
| AC-15 | | | (20) |
| 220 V 230 V 240 V | I _e | Α | 6 |
| 380 V 400 V 415 V | l _e | Α | 4 💢 |
| Contacts | | | Q. |
| N/O = Normally open | | | 1 N/0 |
| N/C = Normally closed | | 36 | 1 NC |
| Mounting type | | 3 | Front fixing |
| -xal 5xc | DI IV. | | 14 22 |
| N/C = Normally closed Mounting type Contact sequence For use with | | | DILM40 DILM50 DILM65 DILM72 DILM95 DILM95 DILM115 DILM150 DILM170 DILM170 DILMP63 DILMP63 DILMP60 DILMP125 DILMP60 DILMP60 DILMF50 DILMF40 DILMF50 DILMF50 DILMF50 DILMF85 DILMF85 DILMF85 DILMF95 |
| Туре | | | 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 |
|--|------------------|--|--|
| - | Орогалоно | X IU | |
| 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 | 0.03 |
| Terminal capacities | | mm^2 | |
| Screw terminals | | | 1) |
| Solid | | mm ² | 1 x (0.75 - 2.5) |
| | | | 2 x (0.75 - 2.5) |
| Flexible with ferrule | | mm ² | Finger and back-of-hand proof 0.03 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) 18 – 14 2 0.8 x 5.5 |
| 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 | | 0, | |
| Interlocked opposing contacts within an auxiliary contact module (to IEC 60947-5 Annex L) | -1 | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Yes |
| N/C contact (not late-break contact) suitable as a mirror contact (to IEC/EN 60947-4-1 Annex F) | | 07.0 | DILM40 - DILM170 |
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Overvoltage category/pollution degree | 1 | | III/3 |
| Rated insulation voltage | Ui | V AC | 690 |
| Rated insulation voltage Rated operational voltage Safe isolation to EN 61140 between coil and auxiliary contacts between the auxiliary contacts Rated operational current | 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 | | Α | |
| Conventional free air thermal current, 1 pole | | | |
| at 60 °C | I _{th} | Α | 16 |
| AC-15 | | | |
| 220 V 230 V 240 V | I _e | Α | 6 |
| 380 V 400 V 415 V | I _e | Α | 4 |
| 500 V | I _e | A | 1.5 |
| DC current | Ü | | |
| | | | Switch-on and switch-off conditions based on DC-13, time constant as specified. |
| DC L/R ≤ 15 ms | | | 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2 |
| 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 |
| <i>'</i> | | | (at U _e = 24 V DC, U _{min} = 17 V, I _{min} = 5.4 mA) |
| Short-circuit rating without welding | | | |
| | | | |

| 500 V | A g | 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 $I_{\rm e}$ (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: | Δ | 1 | 4 | |

Design verification as per IEC/EN 61439

| observed. | | | | |
|--|--|-------------------|----|--|
| Operating ambient temperature min. Operating ambient temperature max. ***C**C**E0**EEC/EN 61439 design verification 10.2 Strength of materials and parts 10.2 Corrosion resistance 10.2.3 Verification of tresistance of insulating materials to abnormal heat 10.2.3.1 Verification of resistance of insulating materials to abnormal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3.2 Verification of resistance of insulating materials to abnormal heat 10.2.3 Verification of resistance of insulating materials to abnormal heat 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Meets the product standard's requirements. 10.2.6 Meets the product standard's requirements. 10.3 Degree of protection of ASSEMBLIES 10.4 Dearances and creepage distances 10.5 Protection against electric shock 10.6 Protection against electric shock 10.6 Protection against electric shock 10.6 Fortection against electric shock 10.7 Internal electrical circuits and components 10.8 Connections for external conductors 10.9 Insulation properties 10.10 Temperature rise The panel builder's responsibility. 10.9 Insulation properties 10.10 Temperature rise The panel builder's responsibility. 10.10 Temperature rise The panel builder's responsibility. 10.10 Temperature rise The panel builder's resp | Technical data for design verification | | | 1 |
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| IECJEN 61439 design verification | Operating ambient temperature min. | | °C | -25 |
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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 le at AC-15, 230 V | | Α | 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 |

Additional product information (links)

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|--|--|
| Motor starters and "Special Purpose Ratings" for the North American market | http://www.eaton.eu/ecm/groups/public/@pub/@europe/@electrical/documents/content/pct_3258146.pdf |
| Switchgear of Power Factor Correction Systems | http://www.moeller.net/binary/ver_techpapers/ver934en.pdf |
| X-Start - Modern Switching Installations Efficiently Fitted and Wired Securely | http://www.moeller.net/binary/ver_techpapers/ver938en.pdf |
| Mirror Contacts for Highly-Reliable Information Relating to Safety-Related Control Functions | http://www.moeller.net/binary/ver_techpapers/ver944en.pdf |
| Effect of the Cabel Capacitance of Long Control Cables on the Actuation of Contactors | http://www.moeller.net/binary/ver_techpapers/ver949en.pdf |
| Switchgear for Luminaires | http://www.moeller.net/binary/ver_techpapers/ver955en.pdf |
| Standard Compliant and Functionally Safe Engineering Design with Mechanical Auxiliary Contacts | http://www.moeller.net/binary/ver_techpapers/ver956en.pdf |
| The Interaction of Contactors with PLCs | http://www.moeller.net/binary/ver_techpapers/ver957en.pdf |
| Busbar Component Adapters for modern Industrial control panels | http://www.moeller.net/binary/ver_techpapers/ver960en.pdf |
| Supplied by Digital 3 | |