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ISO 9001 Certified Quality System

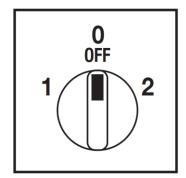
Cod. CR0120009RT4



(Image is purely indicative)



Positions



Standard and Approvals

- Switch according to IEC/EN 60947-3
- Certified UL60947-4-1A and CAN/CSA C22.2 No. 60947-4-1-07
- Suitable as Manual Motor Controller



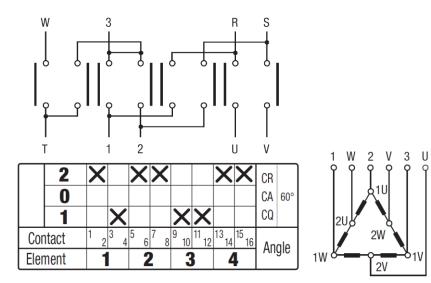
Technical characteristics: Body

- Changing swtch Dahlander pole
- IP20 Protection degree
- Rated operational current le: 12A
- Rated thermal current Ith: 16A
- Rated insulation voltage Ui: 690V
- Rear mounting
- Fixing with 2 screw at 28mm vertical
- Switching angle: 60°
- Class V2 self-extinguishing thermoplastic housing
- Assembled with metal shaft and threaded stud bolts to ensure maximum operating reliability
- Positive opening double break contacts, silver alloy made.

Technical characteristics: Knob

- Grey plate 48x48mm and black knob
- IP66 Protection degree
- Fixing:- 2 screw at 28mm vertical

Electrical diagram and function



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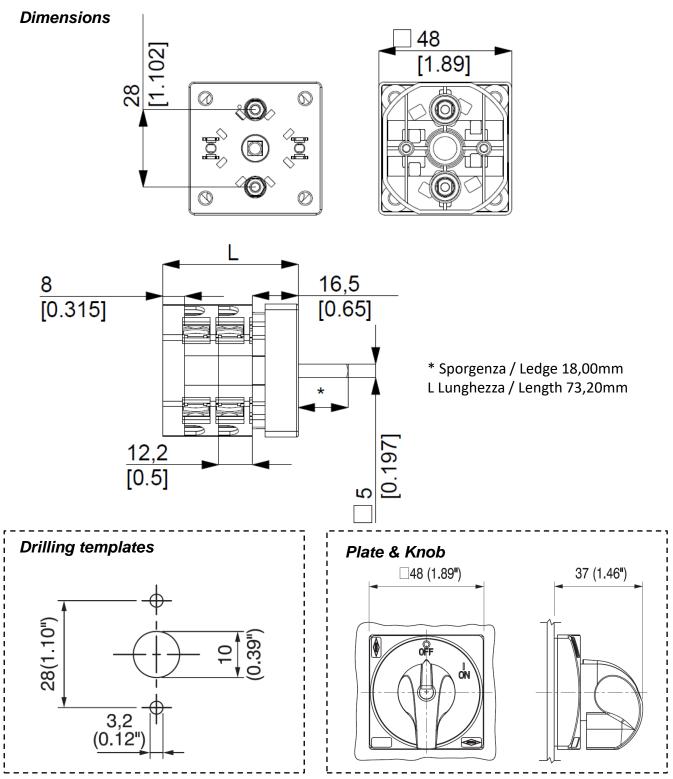
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measures in mm (in)



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| Technical data IEC 947-3 EN 60947-3 | | | | |
|--|---------------------|---|--|---|
| Rated insulation voltage | | Ui | V | 690 |
| Rated operating voltage | | Ue | V | 690 |
| Rated impulse withstand voltage | | Uimp | kV | 6 |
| Rated thermal current for open switch | | Ith | А | 16 |
| Rated thermal current for enclosed switch | | Ithe | А | 16 |
| Rated operation frequency | | | Hz | 50/60 |
| Power dissipation for each pole | | | W | 0,27 |
| Rated operating current | | | | |
| AC-21A Switching resistive loads, including moderate overloads | | le | А | 12 |
| AC-22A Switching of mixed resistive and inductive loads, including moderate overloads | | le | А | 12 |
| AC-20A Connecting and disconnecting under no loads conditions | | | | - |
| Rated operating power | | | | |
| AC-23A Switching of motor loads or other highly inductive loads 3 phase - 3 pole | | 230V | Kw (A) | 3 (9) |
| | | 400V | Kw (A) | 4 (9) |
| | | 500V | Kw (A) | - |
| | | 690V | Kw (A) | - |
| AC-23A Switching of motor loads or other highly inductive loads 1 phase - 2 pole | | 110V | Kw (A) | 0,75 (8,5) |
| | | 230V | Kw (A) | 1,5 (8,5) |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 3 phase - 3 pole | | 230V | Kw (A) | 2,2 (7) |
| | 400V | Kw (A) | 3,5 (7) | |
| | 500V | Kw (A) | - | |
| | | 690V | Kw (A) | - |
| AC-3 Squirrel cage motors: starting, swtiching off motors during running 1 phase - 2 pole | | 110V | Kw (A) | 0,37 (4) |
| | | 230V | Kw (A) | 1,1 (6) |
| | | 400V | Kw (A) | - |
| AC-4 Squirrel cage motors: starting, pluggign, inching | | 230V | Kw (A) | - |
| | | 400V | Kw (A) | - |
| AC-15 Control of a.c electromagnetic loads | | 230V | А | 4 |
| | | 400V | А | 3 |
| Rated breaking capability in AC-23A (cos φ =0,45) | | 230V | А | 72 |
| | | 400V | А | 72 |
| Short circuit protection | | | | |
| Rated short time withstand current | | Icw | A | 150 |
| Rated short-circuit make capacity | | Icm | А | - |
| Rated conditional short-circuit current | | - | kA | 4 |
| With fuses class gG | | 500V | А | 16 |
| Technical data UL/CSA | | | | |
| Rated operating voltage | | Ue | UL/CSA V | 600/ - |
| General use current | | le | UL/CSA A | 12 |
| Short circuit rating @600Vac | | | Arms | 5000 |
| use size (Class RK5, 600Vac, 200kA A.I.C.) | | | А | 60 |
| Rated operating power | | | | |
| 1 phase - 2 pole | | 120V | Hp (A) | 0,5 (9,8) |
| | | 240V | Hp (A) | 1,5 (10) |
| 3 phase - 3 pole | | 200V | Hp (A) | 1,5 (6,9) |
| - F F | | 2001 | | |
| | | 240V | Hp (A) | 2 (6,8) |
| | | | | |
| | | 240V | Hp (A) | 2 (6,8) |
| | | 240V 480V | Hp (A) Hp (A) | 2 (6,8) 3 (4,8) |
| Mechanical characteristics Panel tickness | | 240V 480V | Hp (A) Hp (A) | 2 (6,8) 3 (4,8) |
| Mechanical characteristics Panel tickness | | 240V 480V 600V | Hp (A) Hp (A) Hp (A) | 2 (6,8) 3 (4,8) 5 (6,1) |
| Mechanical characteristics Panel tickness | | 240V 480V 600V | Нр (А) Нр (А) Нр (А) тт | 2 (6,8) 3 (4,8) 5 (6,1) 4 |
| Mechanical characteristics | | 240V 480V 600V | Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 | With flexible wires | 240V 480V 600V | Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 |
| Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 | With flexible wires | 240V 480V 600V Max | Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 | With flexible wires | 240V 480V 600V Max Min-Max | Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm ² | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 |
| Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr mm ² AWG | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 |
| Vechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles x 10 ⁶ Cycles/hr Mm ² AWG mm ² Type | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 |
| Mechanical characteristics Panel tickness Wechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) mm Cycles x 10 ⁶ Cycles/hr mm ² AWG mm ² Type Nm | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Ferminals | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles x 10 ⁶ Cycles/hr Mm ² AWG mm ² Type | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 |
| Mechanical characteristics Panel tickness Mechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Mm ² AWG mm ² Type Nm | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions Operating ambient temperature | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Cycles/hr Mm ² AWG mm ² Type Nm IP | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20 -25 ÷ +55 |
| Mechanical characteristics Panel tickness Vechanical life Connection according to IEC 9471-1 and EN 50947-1 Connecting capability Connecting capability Connection terminal screw dimensions Screw tightening torque Protection degree IEC 529 EN 60529 Terminals Ambient conditions | | 240V 480V 600V Max Min-Max Min-Max | Hp (A) Hp (A) Hp (A) Cycles x 10 ⁶ Cycles/hr Mm ² AWG mm ² Type Nm | 2 (6,8) 3 (4,8) 5 (6,1) 4 2 120 2x1,5-4 16-10 2x1,5-6 M3,5 1 20 |

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