electric ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 4 POLES 16A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE



| Product designation | | | Rotary cam switches |
|--|----------|----|--------------------------------|
| Product type designation | | | 7GN12 |
| General characteristics | | | 701112 |
| Switching diagram | | | 92 - ON/OFF |
| | | | switch 4 poles |
| N° of elements | | | 2 |
| Manuating forms | | | P - Plastic |
| Mounting form | | | enclosure with black handle |
| Contact characteristics | | | black flatible |
| Rated insulation voltage Ui | | | |
| | IEC/EN | V | 690 |
| | UL/CSA | V | 600 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Conventional free air thermal current Ith | | | |
| | IEC/EN | Α | 16 |
| | UL/CSA | Α | 15 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | | |
| | 10kA | Α | 16 |
| | 15kA | Α | 10 |
| | 25kA | Α | 10 |
| Rated short time current Icw | | | |
| | 1s | kA | 200 |
| Conductivity | | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | ۸ | 16 |
| AC15 | | Α | 10 |
| ACIS | 110V | Α | 10 |
| | 220/230V | A | 8 |
| | 380/400V | A | 4 |
| | 660/690V | Α | 1.5 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | | | |
| · | 220/230V | kW | 2.5 |
| | 380/440V | kW | 4 |
| | 500/690V | kW | 5.5 |
| Single-phase AC-3 | | | |
| | 110V | kW | 0.8 |
| | 220/230V | kW | 1.5 |
| | 380/440V | kW | 2.2 |
| Three-phase AC23A | 000/000: | | |
| | 220/230V | kW | 3 |



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| | | 380/440V | kW | 5.5 |
|--|--|---|--|--|
| | | 500/690V | kW | 7.5 |
| | Single-phase AC23A | 000/0007 | 1000 | 1.0 |
| | Single-phase A025A | 110V | kW | 0.8 |
| | | 220/230V | kW | 1.7 |
| | | | | |
| Data dan anational arms | ant in DO | 380/440V | kW | 3 |
| Rated operational curre | | | | |
| | DC21A | | _ | |
| | | 48V | Α | 12 |
| | | 60V | Α | 12 |
| | | 110V | Α | 4 |
| | | 220V | Α | 0.6 |
| | | 440V | Α | 0.25 |
| | DC23A (poles in series) | | | |
| | | 24V | Α | 10 (1) |
| | | 48V | Α | 10 (2) |
| | | 60V | Α | 10 (3) |
| | | 110V | Α | 5 (3) |
| | | 220V | Α | 5 (4) |
| | DC13 | | | \ / |
| | | 24V | Α | 12 |
| | | 48V | A | 10 |
| | | 60V | A | 8 |
| | | 110V | | 1 |
| | | 220V | A | |
| | | | A | 0.4 |
| D P ' C | | 440V | Α | 0.15 |
| Power dissipation | | | W | 0.8 |
| Machanical teatures | | | | |
| Mechanical features | | | | 140 |
| Terminals screw | | | | M3 |
| Terminals screw Tightening torque for te | erminals max | | Nm | M3 0.5 |
| Terminals screw | | | Nm | |
| Terminals screw Tightening torque for te | erminals max AWG - Rigid cable | | | 0.5 |
| Terminals screw Tightening torque for te | | min | Nm AWG | |
| Terminals screw Tightening torque for te | | min Max | | 0.5 |
| Terminals screw Tightening torque for te | | | AWG | 20 |
| Terminals screw Tightening torque for te | AWG - Rigid cable | | AWG | 20 |
| Terminals screw Tightening torque for te | AWG - Rigid cable | Max | AWG AWG | 0.5 20 12 |
| Terminals screw Tightening torque for te | AWG - Rigid cable | Max min | AWG AWG | 0.5 20 12 20 |
| Terminals screw Tightening torque for te | AWG - Rigid cable AWG - Flexible cable | Max min | AWG AWG | 0.5 20 12 20 |
| Terminals screw Tightening torque for te | AWG - Rigid cable AWG - Flexible cable | Max min Max | AWG AWG AWG AWG | 0.5 20 12 20 14 |
| Terminals screw Tightening torque for te | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min | AWG AWG AWG AWG | 0.5 20 12 20 14 0.5 |
| Terminals screw Tightening torque for te | AWG - Rigid cable AWG - Flexible cable | Max min Max min Max | AWG AWG AWG AWG mm² | 0.5 20 12 20 14 0.5 2.5 |
| Terminals screw Tightening torque for te | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min min | AWG AWG AWG AWG mm² mm² | 0.5 20 12 20 14 0.5 2.5 0.5 |
| Terminals screw Tightening torque for to Conductor size | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max | AWG AWG AWG AWG mm² mm² | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for to Conductor size Mechanical life | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min min | AWG AWG AWG AWG mm² mm² | 0.5 20 12 20 14 0.5 2.5 0.5 |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min min | AWG AWG AWG AWG mm² mm² | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for to Conductor size Mechanical life | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control | Max min Max min Max min min | AWG AWG AWG AWG mm² mm² | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max | AWG AWG AWG AWG mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control | Max min Max min Max min Max | AWG AWG AWG AWG mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control for three-phase motor | Max min Max min Max min Max | AWG AWG AWG AWG mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control | Max min Max min Max min Max 120V 240V | AWG AWG AWG AWG mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control for three-phase motor | Max min Max min Max min Max 120V 240V | AWG AWG AWG Mm² mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ 1.5 3 |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data Motor power for direct- | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control for three-phase motor | Max min Max min Max min Max 120V 240V | AWG AWG AWG AWG mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data Motor power for direct- | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control for three-phase motor | Max min Max min Max min Max 120V 240V | AWG AWG AWG Mm² mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ 1.5 3 |
| Terminals screw Tightening torque for to Conductor size Mechanical life UL technical data Motor power for direct- | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable -on-line control for three-phase motor | Max min Max min Max min Max 120V 240V | AWG AWG AWG Mm² mm² mm² cycles | 0.5 20 12 20 14 0.5 2.5 0.5 2.5 3x10 ⁶ 1.5 3 |



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ENERGY AND AUTOMATION

Operating temperature

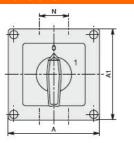
| | min | °C | -25 | |
|---------------------|-----|----|-----|--|
| | max | °C | +55 | |
| Storage temperature | | | | |
| | min | °C | -40 | |
| | max | °C | +70 | |

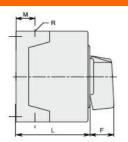
Resistance & Protection

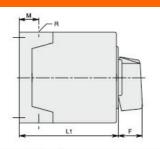
| Frontal IP degree | IP65 |
|-------------------|------|
| T | IDOO |

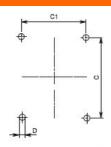
Terminals IP degree IP00

Dimensions



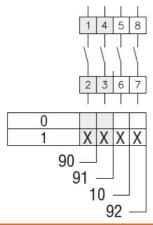






| Series | Enclosure | Number o | f elements | Dimensions | | | | | | Cable | Protection | | | | |
|--------|-----------|----------|------------|------------|-----|------|--------|----------|------|--------|------------|------|-------|---|---|
| Selles | size | L | L1 | Α | A1 | C | C1 | D | F | M | N | L | L1 | entry | degree |
| 7GN12 | 75x75 | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN20 | | 1-2 | 3 - 4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 7GN25 | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 90x90 | 1-3 | 4 - 6 | | | | | | | | | | | | |
| 7GN20 | | 1-3 | 4 - 6 | | | 0.00 | 100000 | 49000000 | 2400 | 10000 | | | | 200000000000000000000000000000000000000 | 100000000000000000000000000000000000000 |
| 7GN25 | | 1-2 | 3 - 4 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN32 | | 1-2 | 3 - 4 | | | | | | | 310.00 | | | | | 30-30-30-17 |
| 7GN40 | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 110x110 | 1 - 4 | 5 - 8 | | | | | | | | | | | | |
| 7GN20 | | 1 - 4 | 5 - 8 | | | | | | | | | | | | |
| 7GN25 | | 1-3 | 4 - 5 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 7GN32 | | 1-3 | 4 - 5 | 110 | 110 | 30.4 | 00 | 4.5 | 32 | 21 | 39.3 | 00.0 | 119.5 | 47.5021 | 11.00 |
| 7GN40 | | 1-2 | 3 - 5 | | | | | | | | | | | | |
| 7GN63 | | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | 125x175 | 1 - 3 | 4 - 5 | | | | | | | | | | | | |
| 7GN40 | | 1 - 2 | 3 - 4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 4xPG21 | IP65 |
| 7GN63 | | 1 - 2 | 3 - 4 | 123 | 173 | 140 | 112 | 3.3 | 32 | 21 | 00 | 04.3 | 110.3 | 2xPG11 | 11.00 |
| 7GN125 | | 1 | 2 | | | | | | | | L. | | N | | |
| 7GN32 | 180x254 | 1 - 5 | 6 - 8 | | | | | | | | | | | | |
| 7GN40 | | 1 - 4 | 5 - 7 | 180 | 254 | 120 | 190 | 5.5 | 32 | 35 | 76 | 121 | 175 | 4xPG29 | IP65 |
| 7GN63 |] | 1 - 3 | 4 - 6 | 100 | 234 | 120 | 190 | 5.5 | 32 | 35 | 10 | 121 | 1/5 | 2xPG11 | 11.00 |
| 7GN125 | | 1 - 2 | 3 - 4 | × | | | | | | | | | | | |

Wiring diagrams



Certifications and compliance

Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3





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ENERGY AND AUTOMATION

IEC/EN/BS 60947-5-1

Certificates

EAC

ETIM classification

ETIM 8.0

EC001029 -Selector switch, complete