7GN20109U47



ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2-3-4, 1 POLE 20A, FOR SNAP ON FRONT MOUNTING WITH BLACK HANDLE FOR HOLE Ø22MM FIXING, FRONT PLATE 48X48MM

| Product designation | | | Rotary cam |
|---|------------------|--------|---|
| - | | | switches |
| Product type designation General characteristics | | | 7GN20 |
| Switching diagram | | | 109 - Multi-step 0-1-2-3-4 1 pole |
| N° of elements | | | 2 |
| Mounting form | | | U47 - Snap on fron mounting with black handle for hole diam. 22mm finxing |
| Contact characteristics | | | |
| Rated insulation voltage Ui | | | |
| | IEC/EN UL/CSA | V V | 690 600 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Conventional free air thermal current Ith | | | |
| | IEC/EN | А | 20 |
| | UL/CSA | А | 20 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit prote | | _ | |
| | 10kA | A | 20 |
| | 15kA | A | 16 |
| Rated short time current Icw | 25kA | A | 16 |
| Rated short time current icw | 1s | kA | 250 |
| Conductivity | 15 | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | | |
| | | А | 20 |
| AC15 | | | |
| | 110V | А | 10 |
| | 220/230V | А | 8 |
| | 380/400V | А | 6 |
| | 660/690V | Α | 1.5 |
| Rated operational power in AC | | | |
| Three-phase AC | | | |
| | 220/230V | kW | 3 |
| | 380/440V | kW | 5.5 |
| Single-phase A | 500/690V | kW | 5.5 |
| Single-phase A | 2-3 110V | kW | 0.8 |
| | 220/230V | kW | 2.2 |
| | 380/440V | kW | 3 |
| Three-phase AC | | | - |
| | 220/230V | kW | 5 |
| | 380/440V | kW | 7.5 |
| | 500/690V | kW | 7.5 |
| Single-phase A | | | |
| | 110V | kW | 0.8 |
| | 220/230V | kW | 2.5 |
| | 380/440V | kW | 3.7 |

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The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



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|---|
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| 48X48MM |
| |

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| Rated operational cu | rrent in DC | | | |
|-----------------------|---------------------------------------|-------|--------|-------------------|
| · | DC21A | | | |
| | | 48V | А | 20 |
| | | 60V | A | 20 |
| | | 110V | A | 4 |
| | | 220V | A | 0.6 |
| | | | | |
| | | 440V | A | 0.25 |
| | DC23A (poles in series) | | | |
| | | 24V | A | 20 (1) |
| | | 48V | А | 20 (2) |
| | | 60V | А | 20 (3) |
| | | 110V | А | 10 (3) |
| | | 220V | А | 8 (4) |
| | DC13 | | | . , |
| | | 24V | А | 20 |
| | | 48V | A | 16 |
| | | | | |
| | | 60V | A | 12 |
| | | 110V | A | 1 |
| | | 220V | A | 0.4 |
| | | 440V | Α | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for | terminals max | | Nm | 0.5 |
| Conductor size | | | | 0.0 |
| Conductor Size | | | | |
| | AWG - Rigid cable | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 12 |
| | AWG - Flexible cable | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 14 |
| | Conductor size (IEC) - Flexible cable | | | |
| | | min | mm² | 0.5 |
| | | Max | | 2.5 |
| | Organization size (IEO) Dividential | IVIAX | 111111 | 2.5 |
| | Conductor size (IEC) - Rigid cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 5x10 ⁶ |
| UL technical data | | | | |
| Motor power for direc | xt-on-line control | | | |
| | for three-phase motor | | | |
| | | 120V | HP | 1.5 |
| | | 240V | HP | 3 |
| | | | | |
| | | 480V | HP | 7.5 |
| | | 600V | HP | 10 |
| | for single-phase motor | | | |
| | | 120V | HP | 0.75 |
| | | 240V | HP | 2 |
| Ambient conditions | | | | |
| Temperature | | | | |
| . Shipolululo | Operating temperature | | | |
| | Operating temperature | | • • | 05 |
| | | min | °C | -25 |
| | | max | °C | +55 |
| | Storage temperature | | | |

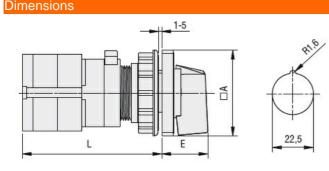
Storage temperature

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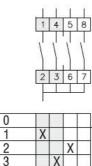
| | min °(| C -40 |
|-------------------------|--------|-------|
| | max °(| C +70 |
| Resistance & Protection | | |
| Frontal IP degree | | IP40 |
| Terminals IP degree | | IP00 |
| | | |



| Series | Dimensions | | L | | | |
|--------|------------|------|------|------|------|-------|
| | □A | E | 1 | 2 | 3 | 8 |
| 7GN12 | 48 | 26.5 | 58 | 67.7 | 77.4 | 125.9 |
| 7GN20 | 48 | 26.5 | 58 | 67.7 | 77.4 | 125.9 |
| 7GN25 | 48 | 26.5 | 62.4 | 76 | 89.6 | 157.6 |

Wiring diagrams

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| 4 109 - | | |
|------------------------|---------------------|--|
| Certifications and com | pliance | |
| Compliance | | |
| | CSA C22.2 n° 14 | |
| | IEC/EN/BS 60947-1 | |
| | IEC/EN/BS 60947-3 | |
| | IEC/EN/BS 60947-5-1 | |
| | UL60947-4-1 | |
| Certificates | | |
| | cCSAus | |
| | EAC | |
| | UL | |
| ETIM classification | | |
| ETIM 8.0 | | EC001029 - Selector switch, complete |

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