

ENERGY AND AUTOMATION

7GN20109O48 ROTARY CAM SWITCH 7GN SERIES, MULTI-STEP 0-1-2-3-4, 1 POLE 20A, MODULAR SERVICE COVER FOR 35MM DIN REAIL MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

| | | | Deter / com |
|---|----------------------|----------|--|
| Product designation | | | Rotary cam switches |
| Product type designation | | | 7GN20 |
| General characteristics | | | |
| Switching diagram | | | 109 - Multi-step 0-1-2-3-4 1 pole |
| N° of elements | | | 2 |
| Mounting form | | | O48 - Modular service cover for 35mm din rail mounting with black handle |
| Contact characteristics | | | |
| Rated insulation voltage Ui | | | |
| | IEC/EN | V | 690 |
| | UL/CSA | V | 600 |
| Rated impulse withstand voltage Uimp Conventional free air thermal current Ith | | kV | 6 |
| | IEC/EN | А | 20 |
| | UL/CSA | A | 20 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | | |
| | 10kA | А | 20 |
| | 15kA | А | 16 |
| | 25kA | A | 16 |
| Rated short time current Icw | | | 050 |
| Conductivity | 1s | kA | 250 10/5 mA/V |
| Conductivity Operational current le IEC/EN | | | 10/5 IIIA/ V |
| AC1/AC21A | | | |
| | | А | 20 |
| AC15 | | | |
| | 110V | А | 10 |
| | 220/230V | А | 8 |
| | 380/400V | Α | 6 |
| | 660/690V | A | 1.5 |
| Rated operational power in AC Three-phase AC-3 | | | |
| Thee-phase AC-5 | 220/230V | kW | 3 |
| | 380/440V | kW | 5.5 |
| | 500/690V | kW | 5.5 |
| Single-phase AC-3 | | | |
| | 110V | kW | 0.8 |
| | 220/230V | kW | 2.2 |
| | 380/440V | kW | 3 |
| Three-phase AC23A | 000/0001 | 1.347 | r. |
| | 220/230V 380/440V | kW kW | 5 7.5 |
| | 380/440V 500/690V | kw kW | 7.5 7.5 |
| Single-phase AC23A | 300/0301 | IX V V | 1.0 |
| | 110V | kW | 0.8 |
| | 220/230V | kW | 2.5 |
| | 380/440V | kW | 3.7 |

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| Batad aparational ours | ant in DC | | | |
|--------------------------|---------------------------------------|--------------|------------|-------------------|
| Rated operational curre | DC21A | | | |
| | DCZTA | 48V | ۸ | 20 |
| | | 48V 60V | A A | 20 |
| | | 110V | A | 4 |
| | | 220V | A | 4 0.6 |
| | | 440V | | 0.8 |
| | | 440 V | A | 0.25 |
| | DC23A (poles in series) | 241 | ۸ | 20 (4) |
| | | 24V | A | 20 (1) |
| | | 48V | A | 20 (2) |
| | | 60V | A | 20 (3) |
| | | 110V | A | 10 (3) |
| | | 220V | A | 8 (4) |
| | DC13 | | | |
| | | 24V | A | 20 |
| | | 48V | А | 16 |
| | | 60V | A | 12 |
| | | 110V | А | 1 |
| | | 220V | А | 0.4 |
| | | 440V | А | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for te | erminals max | | Nm | 0.5 |
| 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 | mm² | 2.5 |
| | Conductor size (IEC) - Rigid cable | | | |
| | (- / U | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 5x10 ⁶ |
| UL technical data | | | | |
| Motor power for direct- | on-line control | | | |
| | for three-phase motor | | | |
| | | 120V | HP | 1.5 |
| | | 240V | HP | 3 |
| | | 480V | HP | 7.5 |
| | | 400V 600V | HP | 10 |
| | for single-phase motor | 000 V | | |
| | | 120V | HP | 0.75 |
| | | 240V | HP | 2 |
| Ambient conditions | | 240 V | LIL, | ۷ |
| | | | | |
| Temperature | Operating temperature | | | |
| | Operating temperature | | ° ^ | 25 |
| | | min | °C °C | -25 |
| | Storogo tomporative | max | °C | +55 |
| | Storage temperature | | | |

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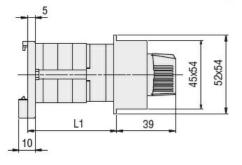
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| | min | °C | -40 |
|-------------------------|-----|----|------|
| | max | °C | +70 |
| Resistance & Protection | | | |
| Frontal IP degree | | | IP40 |
| Terminals IP degree | | | IP00 |
| | | | |

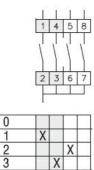
Dimensions



| Cariaa | L1 | | |
|--------|------|------|------|
| Series | 1 | 2 | 3 |
| 7GN12 | 38.1 | 47.8 | 57.5 |
| 7GN20 | 38.1 | 47.8 | 57.5 |
| 7GN25 | 42.5 | 56.1 | 69.7 |

Wiring diagrams

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Certifications and compliance

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| 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 | | |
| | | EC001029 - |
| | | Soloctor switch |

Selector switch, complete

ETIM 8.0

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