# 7GN2005O

ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A, FOR REAR MOUNTING WITH BLACK HANDLE, FRONT PLATE 48X48MM

## General characteristics

| | | | |
|---|---|---|---|
| Switching diagram | | | 05 - ON/OFF switch 1 pole |
| N° of elements | | | 1 |
| Mounting form | | | O - Rear mounting with black handle |

## Contact characteristics

| | | | |
|---|---|---|---|
| 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 | A | 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 | A | 20 |
| | 15kA | A | 16 |
| | 25kA | A | 16 |
| Rated short time current Icw | | | |
| | 1s | kA | 250 |
| Conductivity | | | 10/5 mA/V |
| Operational current Ie IEC/EN | | | |
| AC1/AC21A | | | |
| | | A | 20 |
| AC15 | | | |
| | 110V | A | 10 |
| | 220/230V | A | 8 |
| | 380/400V | A | 6 |
| | 660/690V | A | 1.5 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | | | |
| | 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 | | | |
| | 220/230V | kW | 5 |
| | 380/440V | kW | 7.5 |
| | 500/690V | kW | 7.5 |
| Single-phase AC23A | | | |
| | 110V | kW | 0.8 |
| | 220/230V | kW | 2.5 |
| | 380/440V | kW | 3.7 |
| Rated operational current in DC | | | |
| DC21A | | | |
| | 48V | A | 20 |
| | 60V | A | 20 |

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| | | | | |
|---|---|---|---|---|
| | | 110V | A | 4 |
| | | 220V | A | 0.6 |
| | | 440V | A | 0.25 |
| | DC23A (poles in series) | | | |
| | | 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 | A | 16 |
| | | 60V | A | 12 |
| | | 110V | A | 1 |
| | | 220V | A | 0.4 |
| | | 440V | A | 0.15 |
| Power dissipation | | | W | 0.8 |
| **Mechanical features** | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for terminals 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 | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 5x10⁶ |
| **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 |
| | | 600V | HP | 10 |
| | for single-phase motor | | | |
| | | 120V | HP | 0.75 |
| | | 240V | HP | 2 |
| **Ambient conditions** | | | | |
| Temperature | | | | |
| | Operating temperature | | | |
| | | min | °C | -25 |
| | | max | °C | +55 |
| | Storage temperature | | | |
| | | min | °C | -40 |
| | | max | °C | +70 |
| **Resistance & Protection** | | | | |
| Frontal IP degree | | | | IP40 |

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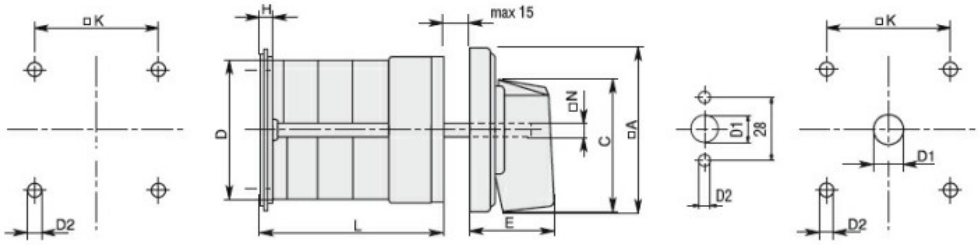
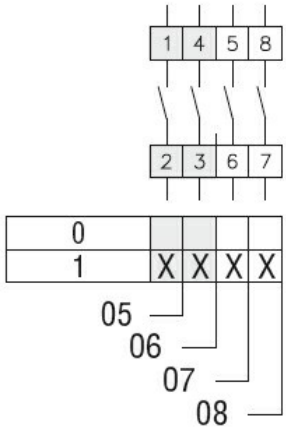
| | |
|---|---|
| Terminals IP degree | IP00 |

## Dimensions




| Series | Dimensions | | | | | | | | L Number of elements | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | □A | C | ØD | ØD2 | E | H | □K | □N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 7GN12 | 48 | 39.5 | 39 | 5 | 26.5 | 5 | 36 | 6 | 38.1 | 47.8 | 57.5 | 67.2 | 76.9 | 86.6 | 96.3 | 106 | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN20 | 48 | 39.5 | 39 | 5 | 26.5 | 5 | 36 | 6 | 38.1 | 47.8 | 57.5 | 67.2 | 76.9 | 86.6 | 96.3 | 106 | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN25 | 48 | 39.5 | 43 | 5 | 26.5 | 5 | 36 | 6 | 42.5 | 56.1 | 69.7 | 83.3 | 96.9 | 110.5 | 124.1 | 137.7 | 151.3 | 164.9 | 178.5 | 192.1 |
| 7GN32 | 65 | 53 | 58 | 5 | 34.5 | 5.5 | 48 | 7 | 48.5 | 63.6 | 78.7 | 93.8 | 108.9 | 124 | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN40 | 65 | 53 | 58 | 5 | 34.5 | 5.5 | 48 | 7 | 48.5 | 63.6 | 78.7 | 93.8 | 108.9 | 124 | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN63 | 65 | 53 | 62 | 6 | 34.5 | 7.5 | 68 | 7 | 53.3 | 71.4 | 89.5 | 107.6 | 125.7 | 143.8 | 161.9 | 180 | 198.1 | 216.2 | 234.3 | 252.4 |
| 7GN125 | 90 | 70.5 | 86 | 6 | 41.4 | 7.5 | 68 | 9 | 74.8 | 103.9 | 133 | 162.1 | 191.2 | 220.3 | 249.4 | 278.5 | 307.6 | 336.7 | 365.8 | 394.9 |

## Wiring diagrams




## Certifications and compliance

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 | EC001105 - Off-load switch |