7GN2053U47



ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 3 POLES 20A, FOR SNAP ON FRONT MOUNTING WITH BLACK HANDLE FOR HOLE Ø22MM FIXING, FRONT PLATE 48X48MM

| Product designation | | | Rotary cam switches |
|--|----------------------|-------------|---|
| Product type designation | | | 7GN20 |
| General characteristics | | | |
| Switching diagram | | | 53 - Changeover switch 3 poles - 2 speed motor starting with separate windings |
| N° of elements | | | 3 |
| 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 UL/CSA | A A | 20 20 |
| Rated operational voltage | 0E/CSA | X | 480 |
| Rated operational impulse voltage | | kV | 480 |
| Maximum fuse size for short-circuit protection In (gG) | | IX V | |
| | 10kA 15kA 25kA | A A A | 20 16 16 |
| Rated short time current Icw | 1s | kA | 250 |
| Conductivity | 15 | 10.1 | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | А | 20 |
| AC15 | | | |
| | 110V | А | 10 |
| | 220/230V | А | 8 |
| | 380/400V | A | 6 |
| Detect exerctional networkin AC | 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 | | | _ |
| | 220/230V | kW | 5 |
| | 380/440V 500/690V | kW kW | 7.5 7.5 |
| | 500/090V | KVV | 7.5 |

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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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| | Single-phase AC23A | | | |
|----------------------|---------------------------------------|----------|--------|-------------------|
| | | 110V | kW | 0.8 |
| | | 220/230V | kW | 2.5 |
| | | 380/440V | kW | 3.7 |
| Rated operational cu | urrent in DC | | | |
| | DC21A | | | |
| | | 48V | А | 20 |
| | | 60V | А | 20 |
| | | 110V | А | 4 |
| | | 220V | А | 0.6 |
| | | 440V | А | 0.25 |
| | DC23A (poles in series) | | | |
| | | 24V | А | 20 (1) |
| | | 48V | A | 20 (2) |
| | | 60V | A | 20 (3) |
| | | 110V | A | 10 (3) |
| | | 220V | A | |
| | DC13 | 2200 | А | 8 (4) |
| | 0013 | 0.01 | ^ | 20 |
| | | 24V | A | 20 |
| | | 48V | A | 16 |
| | | 60V | А | 12 |
| | | 110V | A | 1 |
| | | 220V | А | 0.4 |
| | | 440V | А | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | | |
| Terminals screw | | | | M3 |
| Tightening torque fo | r terminals max | | Nm | 0.5 |
| Conductor size | | | | |
| | AWG - Rigid cable | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 12 |
| | AWG - Flexible cable | IVICA | ANO | 12 |
| | AWG - I lexible cable | min | AWG | 20 |
| | | min | | |
| | | Max | AWG | 14 |
| | Conductor size (IEC) - Flexible cable | | 2 | 0.5 |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| | Conductor size (IEC) - Rigid cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| Mechanical life | | | cycles | 5x10 ⁶ |
| JL technical data | | | | |
| Motor power for dire | ect-on-line control | | | |
| | for three-phase motor | | | |
| | | 120V | HP | 1.5 |
| | | 240V | HP | 3 |
| | | 480V | HP | 5 7.5 |
| | | | | |
| | | 600V | HP | 10 |
| | for single-phase motor | | | |
| | | 120V | HP | 0.75 |
| | | 240V | HP | 2 |
| Ambient conditions | | | | |

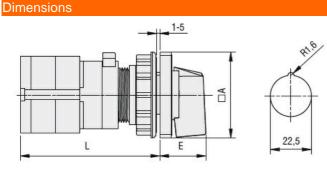
Temperature

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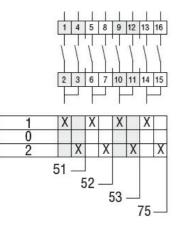
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| Operating temperature | | | |
|-------------------------|-----|----|------|
| | min | °C | -25 |
| | max | °C | +55 |
| Storage temperature | | | |
| | min | °C | -40 |
| | max | °C | +70 |
| Resistance & Protection | | | |
| Frontal IP degree | | | IP40 |
| Terminals IP degree | | | IP00 |
| Dimensions | | | |



| Cariaa | Dimensions | | L | | | |
|--------|------------|------|------|------|------|-------|
| Series | ۵D | 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



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 | 1 |
| | |

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ETIM 8.0

EC001029 -Selector switch, complete