# 7GN2053P

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 3 POLES 20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

## General characteristics

| | | | |
|---|---|---|---|
| Switching diagram | | | 53 - Changeover switch 3 poles - 2 speed motor starting with separate windings |
| N° of elements | | | 3 |
| Mounting form | | | P - Plastic enclosure 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 |
| | 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 |

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| | | | |
|---|---|---|---|
| | max | °C | +70 |

## Resistance & Protection

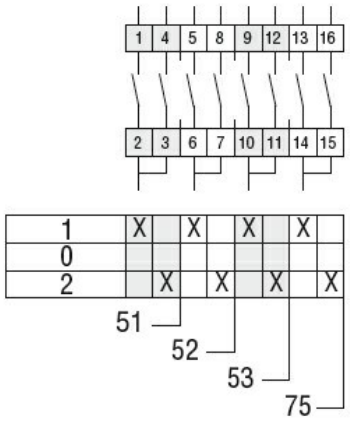
| | |
|---|---|
| Frontal IP degree | IP65 |
| Terminals IP degree | IP00 |

## Dimensions

| Series | Enclosure size | Number of elements | | Dimensions | | | | | | | | | | Cable entry | Protection degree |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | L | L1 | A | A1 | C | C1 | D | F | M | N | L | L1 | | |
| 7GN12❶ | 75x75❷ | 1 - 2 | 3 - 4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 7GN20❶ | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN25❶ | | 1 | 2 - 3 | | | | | | | | | | | | |
| 7GN12❷ | 90x90 | 1 - 3 | 4 - 6 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN20❷ | | 1 - 3 | 4 - 6 | | | | | | | | | | | | |
| 7GN25❷ | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | | 1 | 2 - 3 | | | | | | | | | | | | |
| 7GN40 | | 1 | 2 - 3 | | | | | | | | | | | | |
| 7GN12 | 110x110 | 1 - 4 | 5 - 8 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 7GN20 | | 1 - 4 | 5 - 8 | | | | | | | | | | | | |
| 7GN25 | | 1 - 3 | 4 - 5 | | | | | | | | | | | | |
| 7GN32❶ | | 1 - 2 | 3 - 5 | | | | | | | | | | | | |
| 7GN40❶ | | 1 - 2 | 3 - 5 | | | | | | | | | | | | |
| 7GN63 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32❷ | 125x175 | 1 - 2 | 3 - 4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 4xPG21 2xPG11 | IP65 |
| 7GN40❷ | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN63❶ | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | |
| 7GN32 | 198x248 | – | 1 - 7 | 198 | 248 | 190-210 | 140-180 | 5.5 | 32 | 35 | 104 | – | 166.5 | 6xPG16-21-29 | IP65 |
| 7GN40 | | – | 1 - 7 | | | | | | | | | | | | |
| 7GN63❷ | | – | 1 - 6 | | | | | | | | | | | | |
| 7GN125❶❷ | | – | 1 - 4 | | | | | | | | | | | | |

❶ Standard dimensions for cam switch in plastic enclosure with black handle (P).
❷ DStandard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

## Wiring diagrams




## Certifications and compliance

Compliance

| | |
|---|---|
| | IEC/EN/BS 60947-1 |
| | IEC/EN/BS 60947-3 |
| | IEC/EN/BS 60947-5-1 |

Certificates

| | |
|---|---|
| | EAC |

## ETIM classification

| | |
|---|---|
| ETIM 8.0 | EC001105 - Off-load switch |