

| | | | |
|--------------------------------------------------------|---------------------------------------------------------------------------------------|----|-----|
| Product designation | Rotary cam switches | | |
| Product type designation | 7GN20 | | |
| General characteristics | | | |
| Switching diagram | 110 - Multi-step 0-1-2-3-4-5 1 pole | | |
| 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 | 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 | mm ² | 0.5 |
| | Max | mm ² | 2.5 |
| Conductor size (IEC) - Rigid cable | | | |
| | min | mm ² | 0.5 |
| | Max | mm ² | 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 |
| | 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

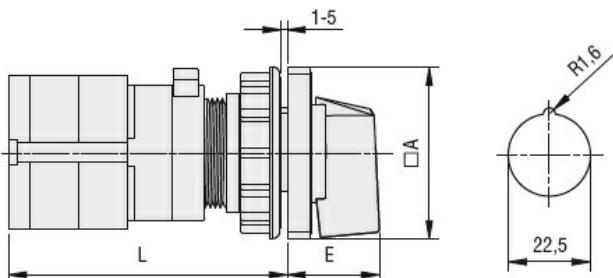
Frontal IP degree

IP40

Terminals IP degree

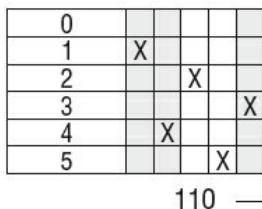
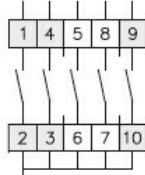
IP00

Dimensions



| 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



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

EC001029 -
Selector switch,
complete