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|---|--|----|------|
| Product designation | Rotary cam switches | | |
| Product type designation | 7GN20 | | |
| General characteristics | | | |
| Switching diagram | 90 - ON/OFF switch 1 pole | | |
| N° of elements | 1 | | |
| Mounting form | O98 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers | | |
| Contact characteristics | | | |
| Rated insulation voltage U_i | IEC/EN | V | 690 |
| | UL/CSA | V | 600 |
| Rated impulse withstand voltage U_{imp} | | kV | 6 |
| Conventional free air thermal current I_{th} | 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 I_n (gG) | 10kA | A | 20 |
| | 15kA | A | 16 |
| | 25kA | A | 16 |
| Rated short time current I_{cw} | 1s | kA | 250 |
| | Conductivity 10/5 mA/V | | |
| Operational current I_e 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 |
| <hr/> | | | |
| Three-phase AC23A | 220/230V | kW | 5 |
| | 380/440V | kW | 7.5 |
| | 500/690V | kW | 7.5 |
| <hr/> | | | |
| Single-phase AC23A | 110V | kW | 0.8 |
| | 220/230V | kW | 2.5 |
| | 380/440V | kW | 3.7 |
| <hr/> | | | |
| Rated operational current in DC | | | |
| DC21A | 48V | A | 20 |
| | 60V | A | 20 |
| | 110V | A | 4 |
| | 220V | A | 0.6 |
| | 440V | A | 0.25 |
| <hr/> | | | |
| DC23A (poles in series) | 24V | A | 20 (1) |
| | 48V | A | 20 (2) |
| | 60V | A | 20 (3) |
| | 110V | A | 10 (3) |
| | 220V | A | 8 (4) |
| <hr/> | | | |
| DC13 | 24V | A | 20 |
| | 48V | A | 16 |
| | 60V | A | 12 |
| | 110V | A | 1 |
| | 220V | A | 0.4 |
| | 440V | A | 0.15 |
| <hr/> | | | |
| Power dissipation | | W | 0.8 |
| Mechanical features | | | |
| Terminals screw | | | M3 |
| Tightening torque for terminals max | | Nm | 0.5 |
| <hr/> | | | |
| Conductor size | | | |
| AWG - Rigid cable | min | AWG | 20 |
| | Max | AWG | 12 |
| <hr/> | | | |
| AWG - Flexible cable | min | AWG | 20 |
| | Max | AWG | 14 |
| <hr/> | | | |
| Conductor size (IEC) - Flexible cable | min | mm ² | 0.5 |
| | Max | mm ² | 2.5 |
| <hr/> | | | |
| Conductor size (IEC) - Rigid cable | min | mm ² | 0.5 |
| | Max | mm ² | 2.5 |
| <hr/> | | | |
| 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

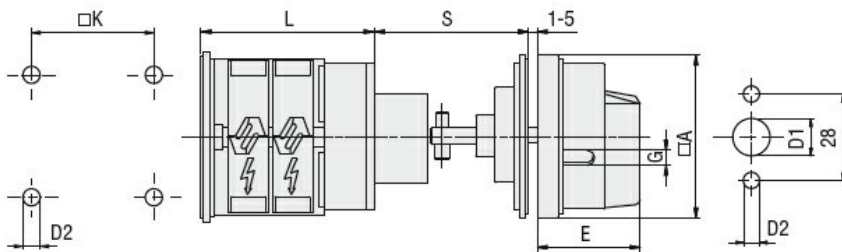
| | | |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

Resistance & Protection

Frontal IP degree IP40

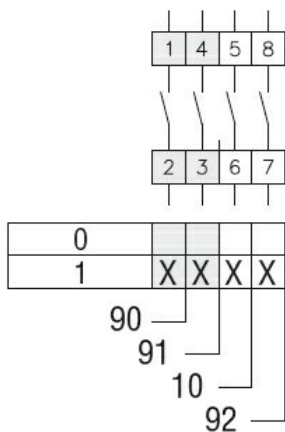
Terminals IP degree IP00

Dimensions



| Series | Dimensions | | | | | | | L | | | | |
|--------|------------|----|----|------|---|----|-------|------|------|--------|-------|--|
| | □A | D1 | D2 | E | G | □K | S | 1 | 2 | 3...12 | | |
| 7GN12 | 65 | 12 | 5 | 34.2 | 5 | 36 | 45-55 | 41.1 | 50.8 | 60.5 | 147.8 | |
| 7GN20 | 65 | 12 | 5 | 34.2 | 5 | 36 | 45-55 | 41.1 | 50.8 | 60.5 | 147.8 | |
| 7GN25 | 65 | 14 | 5 | 38 | 6 | 48 | 45-55 | 51.5 | 66.6 | 81.7 | 217.6 | |
| 7GN40 | 65 | 14 | 5 | 38 | 6 | 48 | 45-55 | 51.5 | 66.6 | 81.7 | 217.6 | |
| 7GN63 | 65 | 14 | 6 | 38 | 6 | 68 | 45-55 | 57.3 | 75.4 | 93.5 | 256.4 | |

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