

| | | | |
|--|--------------------------------------|----|-----|
| Product designation | Rotary cam switches | | |
| Product type designation | 7GN12 | | |
| General characteristics | | | |
| Switching diagram | 06 - ON/OFF switch 2 poles | | |
| N° of elements | 1 | | |
| Mounting form | U - Front 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 | 16 |
| | UL/CSA | A | 15 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | 10kA | A | 16 |
| | 15kA | A | 10 |
| | 25kA | A | 10 |
| Rated short time current Icw | 1s | kA | 200 |
| Conductivity | 10/5 mA/V | | |
| Operational current Ie IEC/EN | | | |
| AC1/AC21A | | A | 16 |
| AC15 | 110V | A | 10 |
| | 220/230V | A | 8 |
| | 380/400V | A | 4 |
| | 660/690V | A | 1.5 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | 220/230V | kW | 2.5 |
| | 380/440V | kW | 4 |
| | 500/690V | kW | 5.5 |
| Single-phase AC-3 | 110V | kW | 0.8 |
| | 220/230V | kW | 1.5 |
| | 380/440V | kW | 2.2 |
| Three-phase AC23A | 220/230V | kW | 3 |
| | 380/440V | kW | 5.5 |
| | 500/690V | kW | 7.5 |
| Single-phase AC23A | 110V | kW | 0.8 |
| | 220/230V | kW | 1.7 |
| | 380/440V | kW | 3 |
| Rated operational current in DC | | | |

DC21A

| | | |
|------|---|------|
| 48V | A | 12 |
| 60V | A | 12 |
| 110V | A | 4 |
| 220V | A | 0.6 |
| 440V | A | 0.25 |

DC23A (poles in series)

| | | |
|------|---|--------|
| 24V | A | 10 (1) |
| 48V | A | 10 (2) |
| 60V | A | 10 (3) |
| 110V | A | 5 (3) |
| 220V | A | 5 (4) |

DC13

| | | |
|------|---|------|
| 24V | A | 12 |
| 48V | A | 10 |
| 60V | A | 8 |
| 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 | 3x10 ⁶ |
|-----------------|--------|-------------------|

UL technical data

Motor power for direct-on-line control

for three-phase motor

| | | |
|------|----|-----|
| 120V | HP | 1.5 |
| 240V | HP | 3 |

for single-phase motor

| | | |
|------|----|-----|
| 120V | HP | 0.5 |
| 240V | HP | 1 |

Ambient conditions

Temperature

Operating temperature

| | | |
|-----|----|-----|
| min | °C | -25 |
| max | °C | +55 |

Storage temperature

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

Resistance & Protection

Frontal IP degree

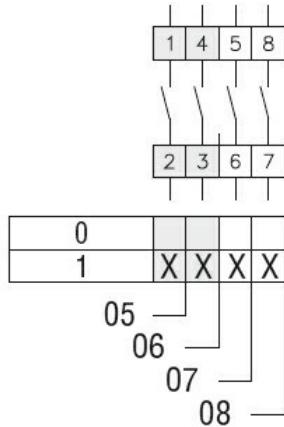
IP40

Terminals IP degree

IP00

Dimensions

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