



Product designation

Rotary cam
switches
7GN20

Product type designation

General characteristics

Switching diagram

91 - ON/OFF
switch 2 poles

N° of elements

1

Mounting form

U - Front
mounting with
black handle

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 |

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 |

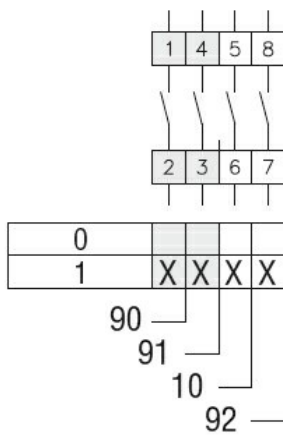
Resistance & Protection

Frontal IP degree IP40

Terminals IP degree IP00

Dimensions

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

EC001105 - Off-load switch