



Product designation

Rotary cam  
switches  
7GN40

Product type designation

**General characteristics**

Switching diagram

90 - ON/OFF  
switch 1 pole

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 | 40 |
| UL/CSA | A | 50 |

Rated operational voltage

|   |     |
|---|-----|
| V | 480 |
|---|-----|

Rated operational impulse voltage

|    |   |
|----|---|
| kV | 4 |
|----|---|

Maximum fuse size for short-circuit protection  $I_n$  (gG)

|      |   |    |
|------|---|----|
| 10kA | A | 40 |
| 15kA | A | 40 |
| 25kA | A | 40 |
| 50kA | A | 40 |
| 63kA | A | 40 |

Rated short time current  $I_{cw}$

|     |    |      |
|-----|----|------|
| 1s  | kA | 1000 |
| 60s | A  | 1000 |

Conductivity

10/5 mA/V

Operational current  $I_e$  IEC/EN

AC1/AC21A

|   |    |
|---|----|
| A | 40 |
|---|----|

AC15

|          |   |    |
|----------|---|----|
| 110V     | A | 25 |
| 220/230V | A | 22 |
| 380/400V | A | 12 |
| 660/690V | A | 2  |

Rated operational power in AC

Three-phase AC-3

|          |    |    |
|----------|----|----|
| 220/230V | kW | 8  |
| 380/440V | kW | 15 |
| 500/690V | kW | 15 |

Single-phase AC-3

|          |    |     |
|----------|----|-----|
| 110V     | kW | 3   |
| 220/230V | kW | 6.5 |

|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 380/440V | kW              | 8                 |
| Three-phase AC23A                      |  | 220/230V | kW              | 8                 |
|                                        |  | 380/440V | kW              | 18.5              |
|                                        |  | 500/690V | kW              | 22                |
| Single-phase AC23A                     |  | 110V     | kW              | 3                 |
|                                        |  | 220/230V | kW              | 6                 |
|                                        |  | 380/440V | kW              | 11                |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  | 48V      | A               | 40                |
|                                        |  | 60V      | A               | 40                |
|                                        |  | 110V     | A               | 6                 |
|                                        |  | 220V     | A               | 0.9               |
| DC23A (poles in series)                |  | 24V      | A               | 40 (1)            |
|                                        |  | 48V      | A               | 40 (2)            |
|                                        |  | 60V      | A               | 40 (3)            |
|                                        |  | 110V     | A               | 20 (3)            |
|                                        |  | 220V     | A               | 12 (4)            |
| DC13                                   |  | 24V      | A               | 40                |
|                                        |  | 48V      | A               | 32                |
|                                        |  | 60V      | A               | 16                |
|                                        |  | 110V     | A               | 3                 |
| Power dissipation                      |  |          | W               | 2.0               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M4                |
| Tightening torque for terminals max    |  |          | Nm              | 1.2               |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  | min      | AWG             | 16                |
|                                        |  | Max      | AWG             | 8                 |
| AWG - Flexible cable                   |  | min      | AWG             | 16                |
|                                        |  | Max      | AWG             | 10                |
| Conductor size (IEC) - Flexible cable  |  | min      | mm <sup>2</sup> | 1.5               |
|                                        |  | Max      | mm <sup>2</sup> | 6                 |
| Conductor size (IEC) - Rigid cable     |  | min      | mm <sup>2</sup> | 1.5               |
|                                        |  | Max      | mm <sup>2</sup> | 10                |
| Mechanical life                        |  |          | cycles          | 5x10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  | 120V     | HP              | 5                 |
|                                        |  | 240V     | HP              | 10                |
|                                        |  | 480V     | HP              | 20                |
|                                        |  | 600V     | HP              | 20                |
| for single-phase motor                 |  | 120V     | HP              | 2                 |
|                                        |  | 240V     | HP              | 5                 |

## Ambient conditions

### Temperature

#### Operating temperature

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

#### Storage temperature

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

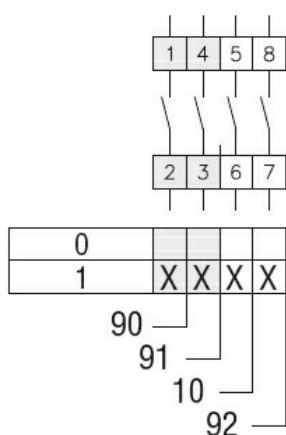
## Resistance & Protection

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