



|                                                        |                  |    |                                                                                                  |
|--------------------------------------------------------|------------------|----|--------------------------------------------------------------------------------------------------|
| Product designation                                    |                  |    | Rotary cam switches                                                                              |
| Product type designation                               |                  |    | 7GN40                                                                                            |
| General characteristics                                |                  |    |                                                                                                  |
| Switching diagram                                      |                  |    | 92 - ON/OFF switch 4 poles                                                                       |
| N° of elements                                         |                  |    | 2                                                                                                |
| Mounting form                                          |                  |    | O98 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers |
| 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  | 40                                                                                               |
|                                                        | UL/CSA           | A  | 50                                                                                               |
| Rated operational voltage                              |                  |    | V 480                                                                                            |
| Rated operational impulse voltage                      |                  |    | kV 4                                                                                             |
| Maximum fuse size for short-circuit protection In (gG) |                  |    |                                                                                                  |
|                                                        | 10kA             | A  | 40                                                                                               |
|                                                        | 15kA             | A  | 40                                                                                               |
|                                                        | 25kA             | A  | 40                                                                                               |
|                                                        | 50kA             | A  | 40                                                                                               |
|                                                        | 63kA             | A  | 40                                                                                               |
| Rated short time current Icw                           |                  |    |                                                                                                  |
|                                                        | 1s               | kA | 1000                                                                                             |
|                                                        | 60s              | A  | 1000                                                                                             |
| Conductivity                                           |                  |    | 10/5 mA/V                                                                                        |
| Operational current Ie 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

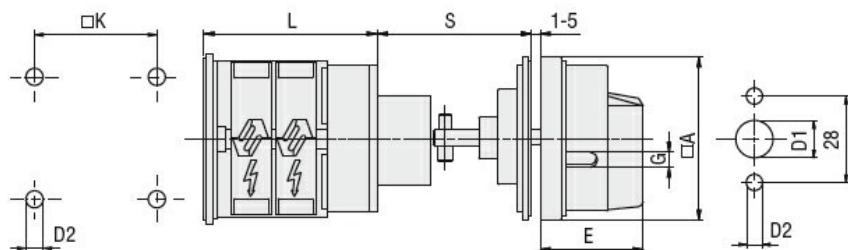
|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +70 |

#### Resistance & Protection

|                   |      |
|-------------------|------|
| Frontal IP degree | IP40 |
|-------------------|------|

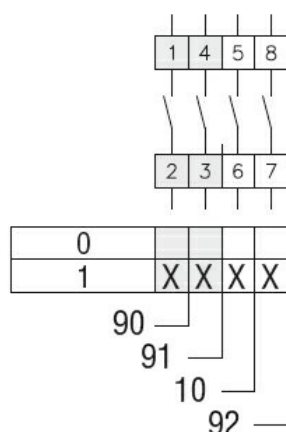
|                     |      |
|---------------------|------|
| Terminals IP degree | IP00 |
|---------------------|------|

#### Dimensions



| 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

EC001105 - Off-  
load switch