

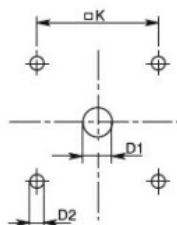
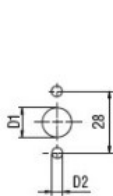
|                                                        |                                          |                       |                            |
|--------------------------------------------------------|------------------------------------------|-----------------------|----------------------------|
| Product designation                                    | Rotary cam switches                      |                       |                            |
| Product type designation                               | 7GN40                                    |                       |                            |
| General characteristics                                |                                          |                       |                            |
| Switching diagram                                      | 108 - Multi-step 0-1-2-3 1 pole          |                       |                            |
| N° of elements                                         | 2                                        |                       |                            |
| Mounting form                                          | U - Front mounting with black handle     |                       |                            |
| Contact characteristics                                |                                          |                       |                            |
| Rated insulation voltage Ui                            | IEC/EN<br>UL/CSA                         | V<br>V                | 690<br>600                 |
| Rated impulse withstand voltage Uimp                   |                                          | kV                    | 6                          |
| Conventional free air thermal current Ith              | IEC/EN<br>UL/CSA                         | A<br>A                | 40<br>50                   |
| Rated operational voltage                              |                                          | V                     | 480                        |
| Rated operational impulse voltage                      |                                          | kV                    | 4                          |
| Maximum fuse size for short-circuit protection In (gG) | 10kA<br>15kA<br>25kA<br>50kA<br>63kA     | A<br>A<br>A<br>A<br>A | 40<br>40<br>40<br>40<br>40 |
| Rated short time current Icw                           | 1s                                       | kA                    | 1000                       |
| Conductivity                                           | 10/5 mA/V                                |                       |                            |
| Operational current Ie IEC/EN                          |                                          |                       |                            |
| AC1/AC21A                                              |                                          | A                     | 40                         |
| AC15                                                   | 110V<br>220/230V<br>380/400V<br>660/690V | A<br>A<br>A<br>A      | 25<br>22<br>12<br>2        |
| Rated operational power in AC                          |                                          |                       |                            |
| Three-phase AC-3                                       | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 8<br>15<br>15              |
| Single-phase AC-3                                      | 110V<br>220/230V<br>380/440V             | kW<br>kW<br>kW        | 3<br>6.5<br>8              |
| Three-phase AC23A                                      | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 8<br>18.5<br>22            |
| Single-phase AC23A                                     | 110V<br>220/230V                         | kW<br>kW              | 3<br>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 |

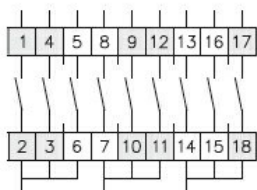
## Dimensions



Standard drillings for 7GN125.  
Drillings on request for 4 screws fixing  
(4V version).

| Series | Dimensions |      |    |     |     |      |      |    |    | L Number of elements |      |       |       |       |       |       |       |       |       |       |       |
|--------|------------|------|----|-----|-----|------|------|----|----|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | ØA         | C    | ØD | ØD1 | ØD2 | E    | ØG   | ØK | ØN | 1                    | 2    | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    |
| 7GN12  | 48         | 39.5 | 39 | 12  | 5   | 26.5 | 38   | 36 | 6  | 36.1                 | 45.8 | 55.5  | 65.2  | 74.9  | 84.6  | 94.3  | 104   | 113.7 | 123.4 | 133.1 | 142.8 |
| 7GN20  | 48         | 39.5 | 39 | 12  | 5   | 26.5 | 38   | 36 | 6  | 36.1                 | 45.8 | 55.5  | 65.2  | 74.9  | 84.6  | 94.3  | 104   | 113.7 | 123.4 | 133.1 | 142.8 |
| 7GN25  | 48         | 39.5 | 43 | 12  | 5   | 26.5 | 38   | 36 | 6  | 40.5                 | 54.1 | 67.7  | 81.3  | 94.9  | 108.5 | 122.1 | 135.7 | 147.3 | 162.9 | 176.5 | 190.1 |
| 7GN32  | 65         | 53   | 58 | 14  | 5   | 34.5 | 58.5 | 48 | 7  | 46.5                 | 61.6 | 76.7  | 91.8  | 106.9 | 122   | 137.1 | 152.2 | 167.3 | 182.4 | 197.5 | 212.6 |
| 7GN40  | 65         | 53   | 58 | 14  | 5   | 34.5 | 58.5 | 48 | 7  | 46.5                 | 61.6 | 76.7  | 91.8  | 106.9 | 122   | 137.1 | 152.2 | 167.3 | 182.4 | 197.5 | 212.6 |
| 7GN63  | 65         | 53   | 62 | 14  | 5   | 34.5 | 58.5 | 48 | 7  | 50.3                 | 68.4 | 86.5  | 104.6 | 122.7 | 140.8 | 158.9 | 177   | 195.1 | 213.2 | 231.3 | 249.4 |
| 7GN125 | 90         | 70.5 | 86 | 16  | 6   | 41.5 | 84   | 68 | 9  | 67.3                 | 96.4 | 125.5 | 154.6 | 183.7 | 220.3 | 249.4 | 278.5 | 307.6 | 336.7 | 365.8 | 394.9 |

## Wiring diagrams



|   |   |   |   |   |   |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
|---|---|---|---|---|---|--|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|---|
| 0 |   |   |   |   |   |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| 1 | X |   |   |   | X |  | X |  |   |  |  |  |  |  |  |  |  |  |  |  |  |   |
| 2 |   |   | X | X |   |  |   |  |   |  |  |  |  |  |  |  |  |  |  |  |  | X |
| 3 |   | X |   |   |   |  | X |  | X |  |  |  |  |  |  |  |  |  |  |  |  |   |

108      124      136

## 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