

|                                                        |                                                        |                       |                            |
|--------------------------------------------------------|--------------------------------------------------------|-----------------------|----------------------------|
| Product designation                                    | Rotary cam switches                                    |                       |                            |
| Product type designation                               | 7GN40                                                  |                       |                            |
| General characteristics                                |                                                        |                       |                            |
| Switching diagram                                      | 26 - 3-phase motor reversing switch with spring return |                       |                            |
| N° of elements                                         | 3                                                      |                       |                            |
| 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                                     |                                                        |                       |                            |

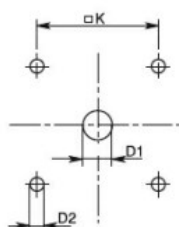
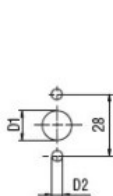
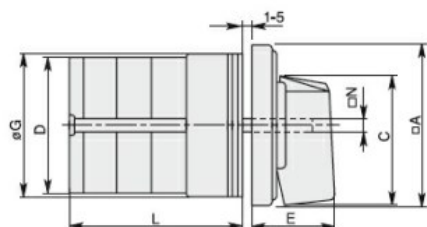
|                                        |      |                 |        |                   |
|----------------------------------------|------|-----------------|--------|-------------------|
|                                        |      | 110V            | kW     | 3                 |
|                                        |      | 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 |

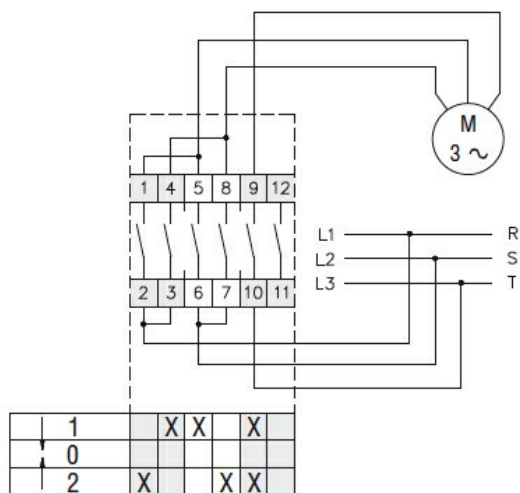
### Dimensions



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

| Series | Dimensions |      |    |     |     |      |      |    |    | L Number of elements |      |       |       |       |       |       |       |       |       |       |       |
|--------|------------|------|----|-----|-----|------|------|----|----|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | □A         | C    | ØD | ØD1 | ØD2 | E    | ØG   | □K | □N | 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



### 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