

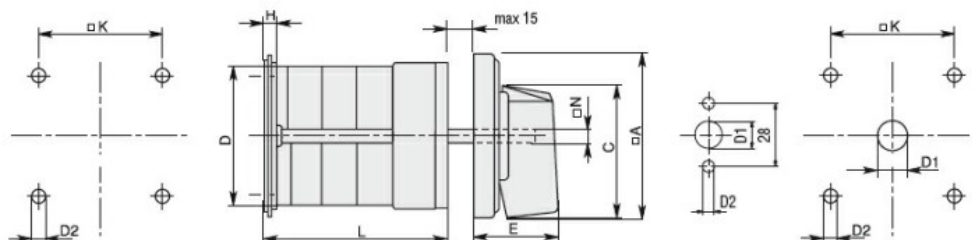
|                                                        |                                          |                       |                                 |
|--------------------------------------------------------|------------------------------------------|-----------------------|---------------------------------|
| Product designation                                    | Rotary cam switches                      |                       |                                 |
| Product type designation                               | 7GN125                                   |                       |                                 |
| General characteristics                                |                                          |                       |                                 |
| Switching diagram                                      | 86 - Multi-step 1-2-3 2 poles            |                       |                                 |
| N° of elements                                         | 3                                        |                       |                                 |
| Mounting form                                          | O - Rear 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                | 125<br>130                      |
| Rated operational voltage                              |                                          | V                     | 690                             |
| Rated operational impulse voltage                      |                                          | kV                    | 6                               |
| 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 | 125<br>100<br>100<br>100<br>100 |
| Rated short time current Icw                           | 1s                                       | kA                    | 2100                            |
| Conductivity                                           | 10/5 mA/V                                |                       |                                 |
| Operational current Ie IEC/EN                          |                                          |                       |                                 |
| AC1/AC21A                                              |                                          | A                     | 125                             |
| AC15                                                   | 110V<br>220/230V<br>380/400V<br>660/690V | A<br>A<br>A<br>A      | 40<br>28<br>15<br>5             |
| Rated operational power in AC                          |                                          |                       |                                 |
| Three-phase AC-3                                       | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 18.5<br>37<br>33                |
| Single-phase AC-3                                      | 110V<br>220/230V<br>380/440V             | kW<br>kW<br>kW        | 5<br>11<br>15                   |
| Three-phase AC23A                                      | 220/230V<br>380/440V<br>500/690V         | kW<br>kW<br>kW        | 30<br>45<br>37                  |
| Single-phase AC23A                                     | 110V<br>220/230V                         | kW<br>kW              | 5<br>11                         |

|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 380/440V | kW              | 15                |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  | 48V      | A               | 125               |
|                                        |  | 60V      | A               | 80                |
|                                        |  | 110V     | A               | 10                |
|                                        |  | 220V     | A               | 1.2               |
| DC23A (poles in series)                |  | 24V      | A               | 125 (1)           |
|                                        |  | 48V      | A               | 125 (2)           |
|                                        |  | 60V      | A               | 125 (3)           |
|                                        |  | 110V     | A               | 50 (3)            |
|                                        |  | 220V     | A               | 20 (4)            |
| DC13                                   |  | 24V      | A               | 125               |
|                                        |  | 48V      | A               | 100               |
|                                        |  | 60V      | A               | 50                |
|                                        |  | 110V     | A               | 4                 |
| Power dissipation                      |  |          | W               | 6.3               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M2X5              |
| Tightening torque for terminals max    |  |          | Nm              | 2                 |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  | min      | AWG             | 14                |
|                                        |  | Max      | AWG             | 1/0               |
| AWG - Flexible cable                   |  | min      | AWG             | 14                |
|                                        |  | Max      | AWG             | 1/0               |
| Conductor size (IEC) - Flexible cable  |  | min      | mm <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Conductor size (IEC) - Rigid cable     |  | min      | mm <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Mechanical life                        |  |          | cycles          | 1X10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  | 120V     | HP              | 15                |
|                                        |  | 240V     | HP              | 25                |
|                                        |  | 480V     | HP              | 50                |
|                                        |  | 600V     | HP              | 40                |
| for single-phase motor                 |  | 120V     | HP              | 5                 |
|                                        |  | 240V     | HP              | 15                |
| Ambient conditions                     |  |          |                 |                   |
| Temperature                            |  |          |                 |                   |
| Operating temperature                  |  | min      | °C              | -25               |
|                                        |  | max      | °C              | +55               |
| Storage temperature                    |  | min      | °C              | -40               |
|                                        |  | max      | °C              | +70               |

## Resistance & Protection

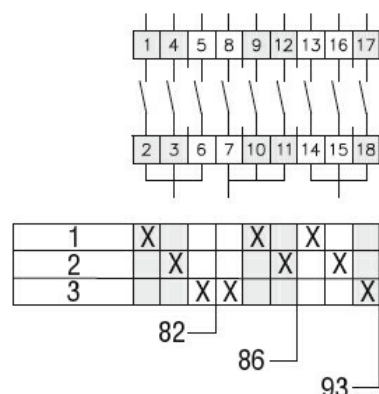
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

## Dimensions



| Series | Dimensions |      |    |     |      |     |    |    | L Number of elements |       |      |       |       |       |       |       |       |       |       |       |
|--------|------------|------|----|-----|------|-----|----|----|----------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|        | ØA         | C    | ØD | ØD2 | E    | H   | ØK | ØN | 1                    | 2     | 3    | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    |
| 7GN12  | 48         | 39.5 | 39 | 5   | 26.5 | 5   | 36 | 6  | 38.1                 | 47.8  | 57.5 | 67.2  | 76.9  | 86.6  | 96.3  | 106   | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN20  | 48         | 39.5 | 39 | 5   | 26.5 | 5   | 36 | 6  | 38.1                 | 47.8  | 57.5 | 67.2  | 76.9  | 86.6  | 96.3  | 106   | 115.7 | 125.4 | 135.1 | 144.8 |
| 7GN25  | 48         | 39.5 | 43 | 5   | 26.5 | 5   | 36 | 6  | 42.5                 | 56.1  | 69.7 | 83.3  | 96.9  | 110.5 | 124.1 | 137.7 | 151.3 | 164.9 | 178.5 | 192.1 |
| 7GN32  | 65         | 53   | 58 | 5   | 34.5 | 5.5 | 48 | 7  | 48.5                 | 63.6  | 78.7 | 93.8  | 108.9 | 124   | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN40  | 65         | 53   | 58 | 5   | 34.5 | 5.5 | 48 | 7  | 48.5                 | 63.6  | 78.7 | 93.8  | 108.9 | 124   | 139.1 | 154.2 | 169.3 | 184.4 | 199.5 | 214.6 |
| 7GN63  | 65         | 53   | 62 | 6   | 34.5 | 7.5 | 68 | 7  | 53.3                 | 71.4  | 89.5 | 107.6 | 125.7 | 143.8 | 161.9 | 180   | 198.1 | 216.2 | 234.3 | 252.4 |
| 7GN125 | 90         | 70.5 | 86 | 6   | 41.4 | 7.5 | 68 | 9  | 74.8                 | 103.9 | 133  | 162.1 | 191.2 | 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

EAC  
UL

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete