



### General characteristics

|                   |                                      |
|-------------------|--------------------------------------|
| Switching diagram | 93 - Multi-step 1-2-3 3 poles        |
| N° of elements    | 5                                    |
| 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  | 16        |
|                                                           | UL/CSA   | A  | 15        |
| Rated operational voltage                                 |          | V  | 480       |
| Rated operational impulse voltage                         |          | kV | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA     | A  | 16        |
|                                                           | 15kA     | A  | 10        |
|                                                           | 25kA     | A  | 10        |
| Rated short time current $I_{cw}$                         | 1s       | kA | 200       |
| Conductivity                                              |          |    | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          |          |    |           |
| AC1/AC21A                                                 |          | A  | 16        |
| AC15                                                      | 110V     | A  | 10        |
|                                                           | 220/230V | A  | 8         |
|                                                           | 380/400V | A  | 4         |
|                                                           | 660/690V | A  | 1.5       |
| Rated operational power in AC                             |          |    |           |
| Three-phase AC-3                                          | 220/230V | kW | 2.5       |
|                                                           | 380/440V | kW | 4         |
|                                                           | 500/690V | kW | 5.5       |
| Single-phase AC-3                                         | 110V     | kW | 0.8       |
|                                                           | 220/230V | kW | 1.5       |
|                                                           | 380/440V | kW | 2.2       |
| Three-phase AC23A                                         | 220/230V | kW | 3         |
|                                                           | 380/440V | kW | 5.5       |
|                                                           | 500/690V | kW | 7.5       |
| Single-phase AC23A                                        |          |    |           |

|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 110V     | kW              | 0.8               |
|                                        |  | 220/230V | kW              | 1.7               |
|                                        |  | 380/440V | kW              | 3                 |
| Rated operational current in DC        |  |          |                 |                   |
| DC21A                                  |  | 48V      | A               | 12                |
|                                        |  | 60V      | A               | 12                |
|                                        |  | 110V     | A               | 4                 |
|                                        |  | 220V     | A               | 0.6               |
|                                        |  | 440V     | A               | 0.25              |
| DC23A (poles in series)                |  | 24V      | A               | 10 (1)            |
|                                        |  | 48V      | A               | 10 (2)            |
|                                        |  | 60V      | A               | 10 (3)            |
|                                        |  | 110V     | A               | 5 (3)             |
|                                        |  | 220V     | A               | 5 (4)             |
| DC13                                   |  | 24V      | A               | 12                |
|                                        |  | 48V      | A               | 10                |
|                                        |  | 60V      | A               | 8                 |
|                                        |  | 110V     | A               | 1                 |
|                                        |  | 220V     | A               | 0.4               |
|                                        |  | 440V     | A               | 0.15              |
| Power dissipation                      |  |          | W               | 0.8               |
| Mechanical features                    |  |          |                 |                   |
| Terminals screw                        |  |          |                 | M3                |
| Tightening torque for terminals max    |  |          | Nm              | 0.5               |
| Conductor size                         |  |          |                 |                   |
| AWG - Rigid cable                      |  | min      | AWG             | 20                |
|                                        |  | Max      | AWG             | 12                |
| AWG - Flexible cable                   |  | min      | AWG             | 20                |
|                                        |  | Max      | AWG             | 14                |
| Conductor size (IEC) - Flexible cable  |  | min      | mm <sup>2</sup> | 0.5               |
|                                        |  | Max      | mm <sup>2</sup> | 2.5               |
| Conductor size (IEC) - Rigid cable     |  | min      | mm <sup>2</sup> | 0.5               |
|                                        |  | Max      | mm <sup>2</sup> | 2.5               |
| Mechanical life                        |  |          | cycles          | 3x10 <sup>6</sup> |
| UL technical data                      |  |          |                 |                   |
| Motor power for direct-on-line control |  |          |                 |                   |
| for three-phase motor                  |  | 120V     | HP              | 1.5               |
|                                        |  | 240V     | HP              | 3                 |
| for single-phase motor                 |  | 120V     | HP              | 0.5               |
|                                        |  | 240V     | HP              | 1                 |
| Ambient conditions                     |  |          |                 |                   |
| Temperature                            |  |          |                 |                   |
| Operating temperature                  |  | min      | °C              | -25               |
|                                        |  | max      | °C              | +55               |

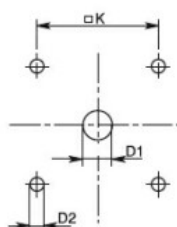
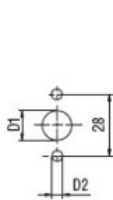
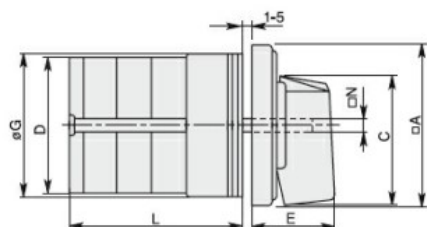
Storage temperature

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

Resistance & Protection

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

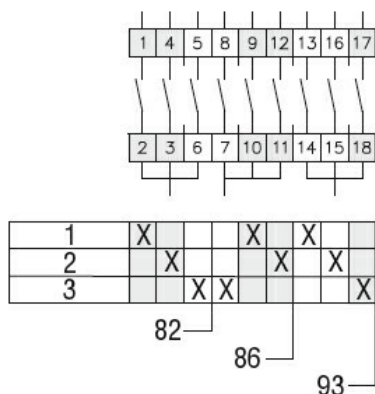
Dimensions



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

