

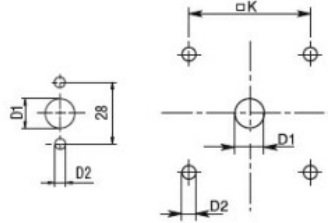
| | | | | |
|---|-------------------|----|------|--------------------------------------|
| Product designation | | | | Rotary cam switches |
| Product type designation | | | | 7GN125 |
| General characteristics | | | | |
| Switching diagram | | | | 94 - Multi-step 1-2-3-4 3 poles |
| N° of elements | | | | 6 |
| 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 | 125 | |
| | UL/CSA | A | 130 | |
| Rated operational voltage | | V | 690 | |
| Rated operational impulse voltage | | kV | 6 | |
| Maximum fuse size for short-circuit protection I_n (gG) | 10kA | A | 125 | |
| | 15kA | A | 100 | |
| | 25kA | A | 100 | |
| | 50kA | A | 100 | |
| | 63kA | A | 100 | |
| Rated short time current I_{cw} | 1s | kA | 2100 | |
| | | | | 10/5 mA/V |
| Conductivity | | | | 10/5 mA/V |
| Operational current I_e IEC/EN | AC1/AC21A | | | A 125 |
| | AC15 | | | |
| Rated operational power in AC | Three-phase AC-3 | | | |
| | 220/230V | kW | 18.5 | |
| | 380/440V | kW | 37 | |
| | 500/690V | kW | 33 | |
| | Single-phase AC-3 | | | |
| | 110V | kW | 5 | |
| | 220/230V | kW | 11 | |
| | 380/440V | kW | 15 | |
| | Three-phase AC23A | | | |
| | 220/230V | kW | 30 | |
| 380/440V | kW | 45 | | |
| 500/690V | kW | 37 | | |
| Single-phase AC23A | | | | |
| 110V | kW | 5 | | |
| 220/230V | kW | 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 ² | 2.5 |
| | Max | mm ² | 50 |
| Conductor size (IEC) - Rigid cable | min | mm ² | 2.5 |
| | Max | mm ² | 50 |
| Mechanical life | | cycles | 1X10 ⁶ |
| 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 |

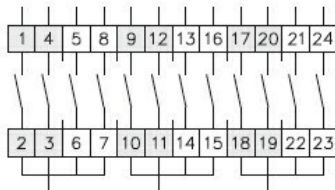
Dimensions



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



| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|--|---|---|--|---|--|--|--|---|--|--|--|--|--|--|---|---|--|
| 1 | X | | | X | | | X | | | | | | | | | | | | | | | |
| 2 | | | X | | | X | | | | | | | | | | | | | | X | | |
| 3 | | | X | | | X | | | X | | | | | | | | | | | | X | |
| 4 | | X | | | | X | | | | | | | X | | | | | | | | | |

83 —
87 —
94 —

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