

|   |  |     |           |
|---|--|-----|-----------|
| Product designation                                       | Rotary cam switches  |     |           |
| Product type designation                                  | 7GN25  |     |           |
| <b>General characteristics</b>                            |  |     |           |
| Switching diagram   | 05 - ON/OFF switch 1 pole  |     |           |
| N° of elements  | 1  |     |           |
| Mounting form   | O88 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers |     |           |
| <b>Contact characteristics</b>                            |  |     |           |
| 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   | 25        |
|   | UL/CSA   | A   | 30        |
| Rated operational voltage                                 |  | V   | 480       |
| Rated operational impulse voltage                         |  | kV  | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA   | A   | 25        |
|   | 15kA   | A   | 25        |
|   | 25kA   | A   | 25        |
| Rated short time current $I_{cw}$                         |  |     |           |
|   | 1s   | A   | 400       |
| Conductivity  |  |     | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A  |     |           |
|   |  | A   | 25        |
| AC15  | 110V   | A   | 16        |
|   | 220/230V   | A   | 12        |
|   | 380/400V   | A   | 8         |
|   | 660/690V   | A   | 2         |
|   |  |     |           |
| Rated operational power in AC                             | Three-phase AC-3   |     |           |
|   | 220/230V   | kW  | 5.5       |
|   | 380/440V   | kW  | 7.5       |
|   | 500/690V   | kW  | 7.5       |
|   | Single-phase AC-3  |     |           |
|   | 110V   | kW  | 1.5       |
|   | 220/230V   | kW  | 3         |
|   | 380/440V   | kW  | 5.5       |
|   | Three-phase AC23A  |     |           |
|   | 220/230V   | kW  | 6.5       |
|   | 380/440V   | kW  | 11        |
|   | 500/690V   | kW  | 11        |
| Single-phase AC23A  |  |     |           |
| 110V  | kW   | 1.5 |           |

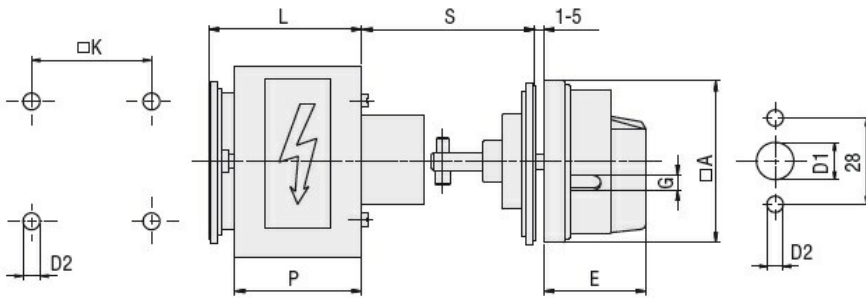
|   |          |                 |                   |
|---|----------|-----------------|-------------------|
|   | 220/230V | kW              | 3.7               |
|   | 380/440V | kW              | 5.5               |
| <b>Rated operational current in DC</b>        |          |                 |                   |
| DC21A   |          |                 |                   |
|   | 48V      | A               | 25                |
|   | 60V      | A               | 25                |
|   | 110V     | A               | 4                 |
|   | 220V     | A               | 0.7               |
| <b>DC23A (poles in series)</b>                |          |                 |                   |
|   | 24V      | A               | 25 (1)            |
|   | 48V      | A               | 25 (2)            |
|   | 60V      | A               | 25 (3)            |
|   | 110V     | A               | 12 (3)            |
|   | 220V     | A               | 10 (4)            |
| <b>DC13</b>                                   |          |                 |                   |
|   | 24V      | A               | 25                |
|   | 48V      | A               | 20                |
|   | 60V      | A               | 16                |
|   | 110V     | A               | 1.5               |
|   | 220V     | A               | 0.4               |
| <b>Power dissipation</b>                      |          | W               | 1.1               |
| <b>Mechanical features</b>                    |          |                 |                   |
| <b>Terminals screw</b>                        |          |                 | M3.5              |
| <b>Tightening torque for terminals max</b>    |          | Nm              | 0.8               |
| <b>Conductor size</b>                         |          |                 |                   |
| AWG - Rigid cable                             |          |                 |                   |
|   | min      | AWG             | 20                |
|   | Max      | AWG             | 10                |
| AWG - Flexible cable                          |          |                 |                   |
|   | min      | AWG             | 20                |
|   | Max      | AWG             | 12                |
| Conductor size (IEC) - Flexible cable         |          |                 |                   |
|   | min      | mm <sup>2</sup> | 0.5               |
|   | Max      | mm <sup>2</sup> | 4                 |
| Conductor size (IEC) - Rigid cable            |          |                 |                   |
|   | min      | mm <sup>2</sup> | 0.5               |
|   | Max      | mm <sup>2</sup> | 4                 |
| <b>Mechanical life</b>                        |          | cycles          | 5x10 <sup>6</sup> |
| <b>UL technical data</b>                      |          |                 |                   |
| <b>Motor power for direct-on-line control</b> |          |                 |                   |
| for three-phase motor                         |          |                 |                   |
|   | 120V     | HP              | 3                 |
|   | 240V     | HP              | 5                 |
|   | 480V     | HP              | 10                |
|   | 600V     | HP              | 15                |
| for single-phase motor                        |          |                 |                   |
|   | 120V     | HP              | 1.5               |
|   | 240V     | HP              | 3                 |
| <b>Ambient conditions</b>                     |          |                 |                   |
| <b>Temperature</b>                            |          |                 |                   |
| Operating temperature                         |          |                 |                   |
|   | min      | °C              | -25               |
|   | max      | °C              | +55               |
| Storage temperature                           |          |                 |                   |

min °C -40  
max °C +70

**Resistance & Protection**

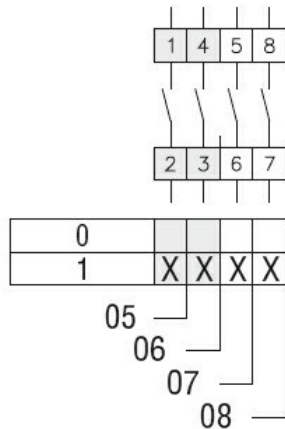
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

**Dimensions**



| Series | Dimensions |    |    |      |   |    |       |    |      |
|--------|------------|----|----|------|---|----|-------|----|------|
|        | □A         | D1 | D2 | E    | G | □K | S     | P  | L    |
| 7GN12  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 43 | 51.3 |
| 7GN20  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 43 | 51.3 |
| 7GN25  | 65         | 12 | 5  | 34.2 | 5 | 36 | 45-55 | 51 | 59.6 |
| 7GN32  | 65         | 14 | 5  | 38   | 6 | 48 | 45-55 | 55 | 68.7 |
| 7GN40  | 65         | 14 | 5  | 38   | 6 | 48 | 45-55 | 55 | 68.7 |

**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

