

|  |  |    |     |
|--|--|----|-----|
| Product designation                                    | Rotary cam switches  |    |     |
| Product type designation                               | 7GN12  |    |     |
| <b>General characteristics</b>                         |  |    |     |
| Switching diagram                                      | 08 - ON/OFF switch 4 poles   |    |     |
| N° of elements   | 2  |    |     |
| Mounting form  | U25 - Front mounting with red/yellow handle padlockable in 0 and protection covers |    |     |
| <b>Contact characteristics</b>                         |  |    |     |
| Rated insulation voltage Ui                            | IEC/EN   | V  | 690 |
|  | UL/CSA   | V  | 600 |
| Rated impulse withstand voltage Uimp                   |  | kV | 6   |
| Conventional free air thermal current Ith              | 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 In (gG) | 10kA   | A  | 16  |
|  | 15kA   | A  | 10  |
|  | 25kA   | A  | 10  |
| Rated short time current Icw                           | 1s   | kA | 200 |
| Conductivity   | 10/5 mA/V  |    |     |
| Operational current Ie 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

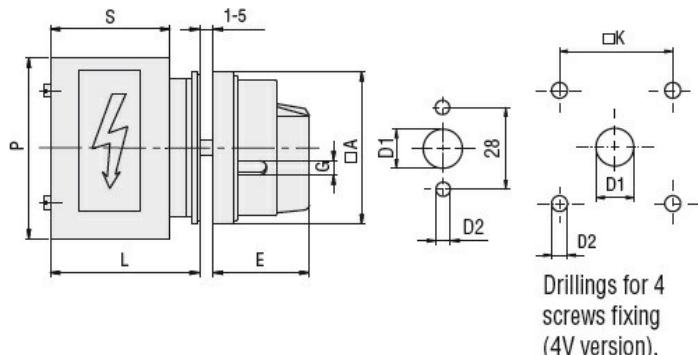
Frontal IP degree

IP40

Terminals IP degree

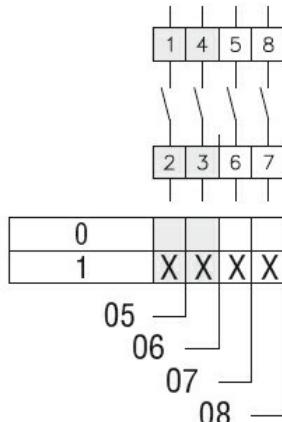
IP00

### Dimensions



| Series | Dimensions |    |    |      |   |    |    |    |      |
|--------|------------|----|----|------|---|----|----|----|------|
|        | A          | D1 | D2 | E    | G | K  | S  | P  | L    |
| 7GN12  | 65         | 12 | 5  | 34.2 | 5 | 36 | 43 | 64 | 54.3 |
| 7GN20  | 65         | 12 | 5  | 34.2 | 5 | 36 | 43 | 64 | 54.3 |
| 7GN25  | 65         | 12 | 5  | 34.2 | 5 | 36 | 51 | 68 | 62.6 |
| 7GN32  | 65         | 14 | 5  | 38   | 6 | 48 | 55 | 77 | 71.7 |
| 7GN40  | 65         | 14 | 5  | 38   | 6 | 48 | 55 | 77 | 71.7 |

### 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