

|                                                        |  |  |                                                                                        |                                        |
|--------------------------------------------------------|--|--|----------------------------------------------------------------------------------------|----------------------------------------|
| Product designation                                    |  |  | Rotary cam switches                                                                    |                                        |
| Product type designation                               |  |  | 7GN25                                                                                  |                                        |
| General characteristics                                |  |  |                                                                                        |                                        |
| Switching diagram                                      |  |  | 56 - Changeover switch without 0 3 poles                                               |                                        |
| N° of elements                                         |  |  | 3                                                                                      |                                        |
| Mounting form                                          |  |  | U12 - Front mounting without front plate with key operation for hole diam. 22mm fixing |                                        |
| Contact characteristics                                |  |  |                                                                                        |                                        |
| Rated insulation voltage Ui                            |  |  | IEC/EN<br>UL/CSA                                                                       | V<br>V<br>690<br>600                   |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                                                                     | 6                                      |
| Conventional free air thermal current Ith              |  |  | IEC/EN<br>UL/CSA                                                                       | A<br>A<br>25<br>30                     |
| Rated operational voltage                              |  |  | V                                                                                      | 480                                    |
| Rated operational impulse voltage                      |  |  | kV                                                                                     | 4                                      |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA<br>15kA<br>25kA                                                                   | A<br>A<br>A<br>25<br>25<br>25          |
| Rated short time current Icw                           |  |  | 1s                                                                                     | kA<br>400                              |
| Conductivity                                           |  |  | 10/5 mA/V                                                                              |                                        |
| Operational current Ie IEC/EN                          |  |  |                                                                                        |                                        |
| AC1/AC21A                                              |  |  | A                                                                                      | 25                                     |
| AC15                                                   |  |  | 110V<br>220/230V<br>380/400V<br>660/690V                                               | A<br>A<br>A<br>A<br>16<br>12<br>8<br>2 |
| Rated operational power in AC                          |  |  |                                                                                        |                                        |
| Three-phase AC-3                                       |  |  | 220/230V<br>380/440V<br>500/690V                                                       | kW<br>kW<br>kW<br>5.5<br>7.5<br>7.5    |
| Single-phase AC-3                                      |  |  | 110V<br>220/230V<br>380/440V                                                           | kW<br>kW<br>kW<br>1.5<br>3<br>5.5      |
| Three-phase AC23A                                      |  |  | 220/230V<br>380/440V<br>500/690V                                                       | kW<br>kW<br>kW<br>6.5<br>11<br>11      |
| Single-phase AC23A                                     |  |  | 110V                                                                                   | kW<br>1.5                              |

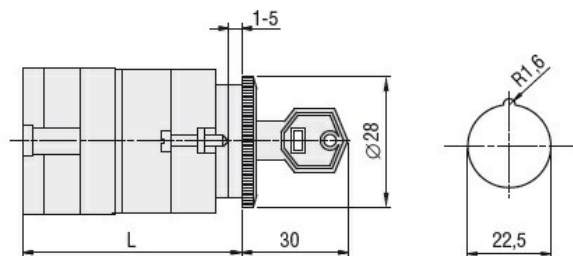
|                                        |  |          |                 |                   |
|----------------------------------------|--|----------|-----------------|-------------------|
|                                        |  | 220/230V | kW              | 3.7               |
|              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

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

### Resistance & Protection

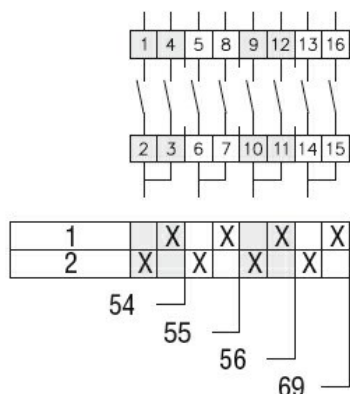
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

### Dimensions



| Series | L    |      |        |       |
|--------|------|------|--------|-------|
|        | 1    | 2    | 3....8 |       |
| 7GN12  | 47   | 56.7 | 66.4   | 114.9 |
| 7GN20  | 47   | 56.7 | 66.4   | 114.9 |
| 7GN25  | 51.4 | 65   | 78.6   | 146.6 |

### 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