

### 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

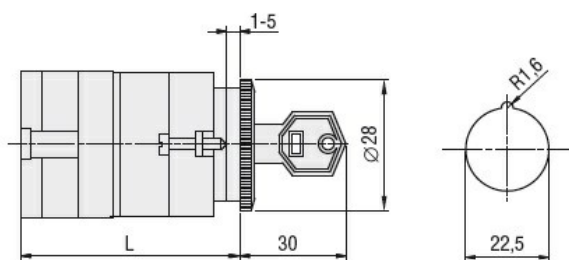
|                                                           |          |    |           |
|-----------------------------------------------------------|----------|----|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN   | V  | 690       |
|                                                           | 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                                              |          |    |           |
| Operational current $I_e$ IEC/EN                          |          |    |           |
| AC1/AC21A                                                 |          | A  | 125       |
| AC15                                                      |          |    |           |
|                                                           | 110V     | A  | 40        |
|                                                           | 220/230V | A  | 28        |
|                                                           | 380/400V | A  | 15        |
|                                                           | 660/690V | A  | 5         |
| 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 <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Conductor size (IEC) - Rigid cable     |  |          |                 |                   |
|                                        |  | min      | mm <sup>2</sup> | 2.5               |
|                                        |  | Max      | mm <sup>2</sup> | 50                |
| Mechanical life                        |  |          | cycles          | 1X10 <sup>6</sup> |
| 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

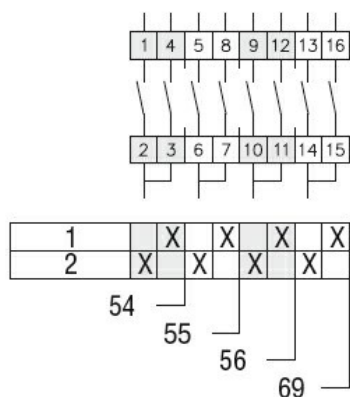
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

## Dimensions



| 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

EAC  
UL

## ETIM classification

### ETIM 8.0

EC001029 -  
Selector switch,  
complete