

### General characteristics

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Switching diagram | 75 - Changeover switch 4 poles                                           |
| N° of elements    | 4                                                                        |
| Mounting form     | O48 - Modular service cover for 35mm din rail mounting with black handle |

### Contact characteristics

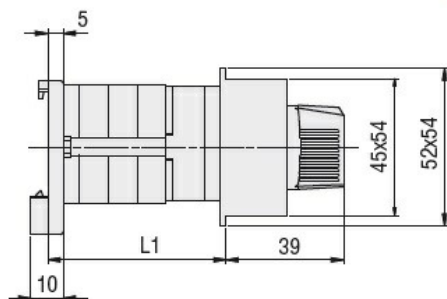
|                                                           |                    |          |           |
|-----------------------------------------------------------|--------------------|----------|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN             | V        | 690       |
|                                                           | UL/CSA             | V        | 600       |
| Rated impulse withstand voltage $U_{imp}$                 |                    | kV       | 6         |
| Conventional free air thermal current $I_{th}$            | IEC/EN             | A        | 20        |
|                                                           | UL/CSA             | A        | 20        |
| Rated operational voltage                                 |                    | V        | 480       |
| Rated operational impulse voltage                         |                    | kV       | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA               | A        | 20        |
|                                                           | 15kA               | A        | 16        |
|                                                           | 25kA               | A        | 16        |
|                                                           |                    |          |           |
| Rated short time current $I_{cw}$                         | 1s                 | kA       | 250       |
|                                                           |                    |          |           |
| Conductivity                                              |                    |          | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A          |          |           |
|                                                           |                    | A        | 20        |
|                                                           | AC15               | 110V     | A 10      |
|                                                           |                    | 220/230V | A 8       |
|                                                           |                    | 380/400V | A 6       |
|                                                           |                    | 660/690V | A 1.5     |
|                                                           |                    |          |           |
|                                                           | Three-phase AC-3   | 220/230V | kW 3      |
|                                                           |                    | 380/440V | kW 5.5    |
|                                                           |                    | 500/690V | kW 5.5    |
|                                                           |                    |          |           |
|                                                           | Single-phase AC-3  | 110V     | kW 0.8    |
|                                                           |                    | 220/230V | kW 2.2    |
|                                                           |                    | 380/440V | kW 3      |
|                                                           | Three-phase AC23A  | 220/230V | kW 5      |
|                                                           |                    | 380/440V | kW 7.5    |
|                                                           |                    | 500/690V | kW 7.5    |
| Rated operational power in AC                             | Single-phase AC23A | 110V     | kW 0.8    |
|                                                           |                    | 220/230V | kW 2.5    |
|                                                           |                    | 380/440V | kW 3.7    |
|                                                           |                    |          |           |
| Rated operational current in DC                           | DC21A              |          |           |
|                                                           |                    |          |           |

|                                        |  |      |                 |                   |
|----------------------------------------|--|------|-----------------|-------------------|
|                                        |  | 48V  | A               | 20                |
|                                        |  | 60V  | A               | 20                |
|                                        |  | 110V | A               | 4                 |
|                                        |  | 220V | A               | 0.6               |
|                                        |  | 440V | A               | 0.25              |
| DC23A (poles in series)                |  |      |                 |                   |
|                                        |  | 24V  | A               | 20 (1)            |
|                                        |  | 48V  | A               | 20 (2)            |
|                                        |  | 60V  | A               | 20 (3)            |
|                                        |  | 110V | A               | 10 (3)            |
|                                        |  | 220V | A               | 8 (4)             |
| DC13                                   |  |      |                 |                   |
|                                        |  | 24V  | A               | 20                |
|                                        |  | 48V  | A               | 16                |
|                                        |  | 60V  | A               | 12                |
|                                        |  | 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          | 5x10 <sup>6</sup> |
| UL technical data                      |  |      |                 |                   |
| Motor power for direct-on-line control |  |      |                 |                   |
| for three-phase motor                  |  |      |                 |                   |
|                                        |  | 120V | HP              | 1.5               |
|                                        |  | 240V | HP              | 3                 |
|                                        |  | 480V | HP              | 7.5               |
|                                        |  | 600V | HP              | 10                |
| for single-phase motor                 |  |      |                 |                   |
|                                        |  | 120V | HP              | 0.75              |
|                                        |  | 240V | HP              | 2                 |
| Ambient conditions                     |  |      |                 |                   |
| Temperature                            |  |      |                 |                   |
| Operating temperature                  |  |      |                 |                   |
|                                        |  | min  | °C              | -25               |
|                                        |  | max  | °C              | +55               |
| Storage temperature                    |  |      |                 |                   |
|                                        |  | min  | °C              | -40               |
|                                        |  | max  | °C              | +70               |

## Resistance & Protection

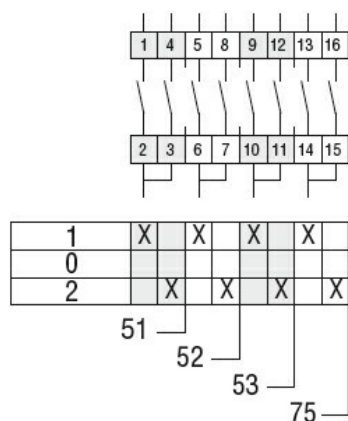
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

## Dimensions



| Series | L1   |      |      |
|--------|------|------|------|
|        | 1    | 2    | 3    |
| 7GN12  | 38.1 | 47.8 | 57.5 |
| 7GN20  | 38.1 | 47.8 | 57.5 |
| 7GN25  | 42.5 | 56.1 | 69.7 |

## 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