

### General characteristics

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Switching diagram | 66 - Voltmeter switch for phase-neutral and phase-phase voltages         |
| N° of elements    | 3                                                                        |
| 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  | 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                            | kA | 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       |

#### 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 |

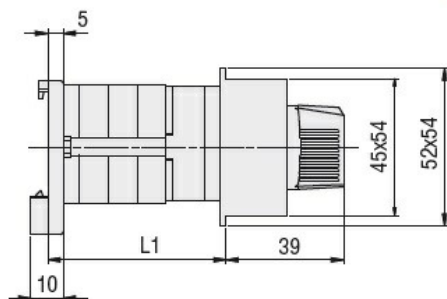
Storage temperature

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

## Resistance & Protection

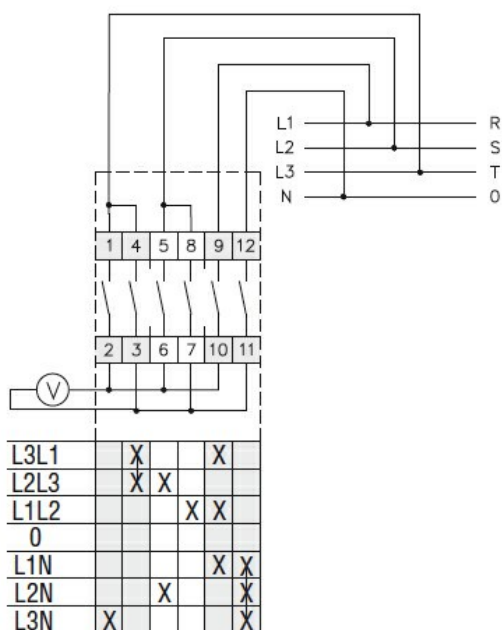
|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

## Dimensions



| Series | 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

ROTARY CAM SWITCH 7GN SERIES, VOLTMETER SWITCH FOR PHASE-NEUTRAL AND  
PHASE-PHASE VOLTAGES 25A, MODULAR SERVICE COVER FOR 35MM DIN RAIL  
MOUNTING WITH BLACK HANDLE, FRONT PLATE 45X54MM

ETIM 8.0

EC001029 -  
Selector switch,  
complete