# 7GN2566O48

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

| | | | |
|---|---|---|---|
| Product designation | | | Rotary cam switches |
| Product type designation | | | 7GN25 |
| **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 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 | 25 |
| | UL/CSA | A | 30 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | | |
| | 10kA | A | 25 |
| | 15kA | A | 25 |
| | 25kA | A | 25 |
| Rated short time current Icw | | | |
| | 1s | kA | 400 |
| Conductivity | | | 10/5 mA/V |
| Operational current Ie 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 | | | |

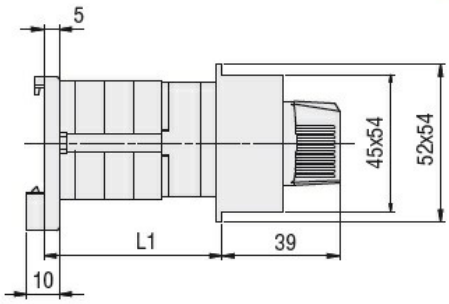
| | | | | |
|---|---|---|---|---|
| | | 110V | kW | 1.5 |
| | | 220/230V | kW | 3.7 |
| | | 380/440V | kW | 5.5 |
| Rated operational current in DC | | | | |
| | DC21A | | | |
| | | 48V | A | 25 |
| | | 60V | A | 25 |
| | | 110V | A | 4 |
| | | 220V | A | 0.7 |
| | DC23A (poles in series) | | | |
| | | 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 | mm² | 0.5 |
| | | Max | mm² | 4 |
| | Conductor size (IEC) - Rigid cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 4 |
| Mechanical life | | | cycles | $5x10^6$ |
| **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

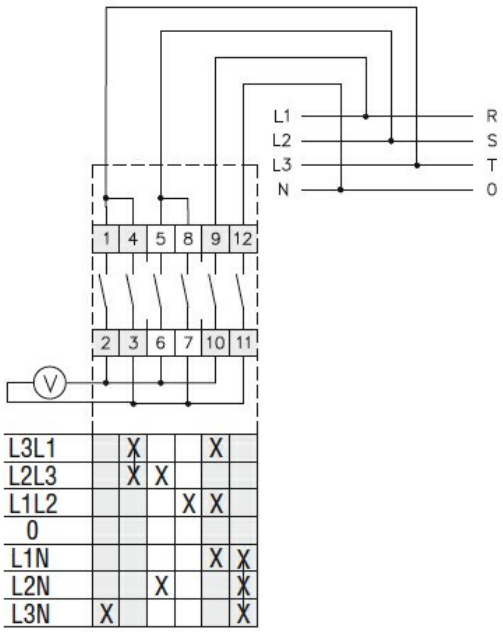
| | |
|---|---|
| Frontal IP degree | IP40 |
| Terminals IP degree | IP00 |

## 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

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|---|
| 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 |