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|--|--|----|-----------|
| Product designation | Rotary cam switches | | |
| Product type designation | 7GN12 | | |
| General characteristics | | | |
| Switching diagram | 93 - Multi-step 1-2-3 3 poles | | |
| N° of elements | 5 | | |
| 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 | 16 |
| | UL/CSA | A | 15 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | 10kA | A | 16 |
| | 15kA | A | 10 |
| | 25kA | A | 10 |
| Rated short time current Icw | 1s | KA | 200 |
| Conductivity | | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | A | 16 |
| AC15 | 110V | A | 10 |
| | 220/230V | A | 8 |
| | 380/400V | A | 4 |
| | 660/690V | A | 1.5 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | 220/230V | kW | 2.5 |
| | 380/440V | kW | 4 |
| | 500/690V | kW | 5.5 |
| Single-phase AC-3 | 110V | kW | 0.8 |
| | 220/230V | kW | 1.5 |
| | 380/440V | kW | 2.2 |
| Three-phase AC23A | 220/230V | kW | 3 |
| | 380/440V | kW | 5.5 |
| | 500/690V | kW | 7.5 |
| Single-phase AC23A | 110V | kW | 0.8 |
| | 220/230V | kW | 1.7 |

| | 380/440V | kW | 3 |
|--|-----------------|--------|-------------------|
| Rated operational current in DC | | | |
| DC21A | | | |
| 48V | A | 12 | |
| 60V | A | 12 | |
| 110V | A | 4 | |
| 220V | A | 0.6 | |
| 440V | A | 0.25 | |
| DC23A (poles in series) | | | |
| 24V | A | 10 (1) | |
| 48V | A | 10 (2) | |
| 60V | A | 10 (3) | |
| 110V | A | 5 (3) | |
| 220V | A | 5 (4) | |
| DC13 | | | |
| 24V | A | 12 | |
| 48V | A | 10 | |
| 60V | A | 8 | |
| 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 ² | 0.5 | |
| Max | mm ² | 2.5 | |
| Conductor size (IEC) - Rigid cable | | | |
| min | mm ² | 0.5 | |
| Max | mm ² | 2.5 | |
| Mechanical life | | cycles | 3x10 ⁶ |
| UL technical data | | | |
| Motor power for direct-on-line control | | | |
| for three-phase motor | | | |
| 120V | HP | 1.5 | |
| 240V | HP | 3 | |
| for single-phase motor | | | |
| 120V | HP | 0.5 | |
| 240V | HP | 1 | |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | | |
| min | °C | -25 | |
| max | °C | +55 | |
| Storage temperature | | | |
| min | °C | -40 | |

Resistance & Protection

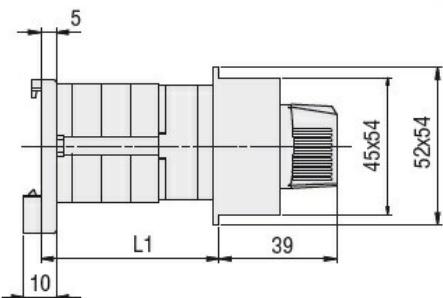
Frontal IP degree

max °C +70

Terminals IP degree

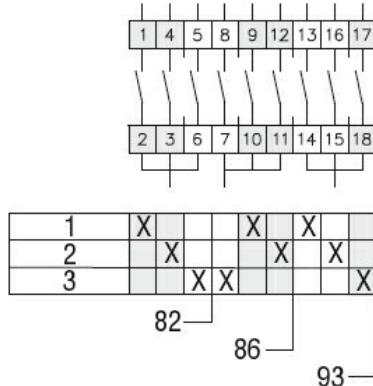
IP40

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