

General characteristics

| | |
|-------------------|---|
| Switching diagram | 87 - Multi-step 1-2-3-4 2 poles |
| N° of elements | 4 |
| Mounting form | P - Plastic enclosure 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 | 32 |
| | UL/CSA | A | 40 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection I_n (gG) | 10kA | A | 32 |
| | 15kA | A | 32 |
| | 25kA | A | 32 |
| | 50kA | A | 32 |
| Rated short time current I_{cw} | 1s | kA | 800 |
| | Conductivity | | |
| Operational current I_e IEC/EN | AC1/AC21A | | |
| | | A | 32 |
| Operational current I_e IEC/EN | AC15 | | |
| | 110V | A | 25 |
| | 220/230V | A | 20 |
| | 380/400V | A | 10 |
| | 660/690V | A | 2 |
| Rated operational power in AC | Three-phase AC-3 | | |
| | 220/230V | kW | 7.5 |
| | 380/440V | kW | 11 |
| | 500/690V | kW | 11 |
| | Single-phase AC-3 | | |
| | 110V | kW | 2.2 |
| | 220/230V | kW | 4 |
| | 380/440V | kW | 6.5 |
| | Three-phase AC23A | | |
| | 220/230V | kW | 8 |
| | 380/440V | kW | 15 |
| | 500/690V | kW | 18.5 |
| Rated operational current in DC | Single-phase AC23A | | |
| | 110V | kW | 2.2 |
| | 220/230V | kW | 4 |
| | 380/440V | kW | 7.5 |
| Rated operational current in DC | DC21A | | |
| | 48V | A | 32 |

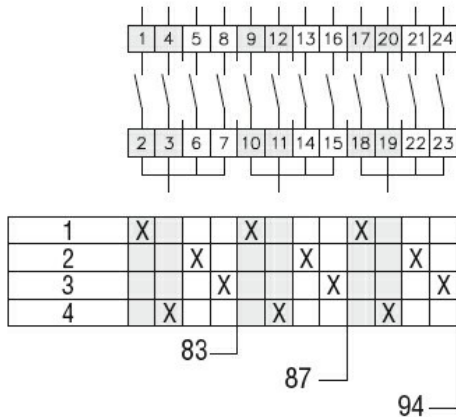
| | | | |
|--|------|-----------------|-------------------|
| | 60V | A | 32 |
| | 110V | A | 6 |
| | 220V | A | 0.9 |
| DC23A (poles in series) | 24V | A | 32 (1) |
| | 48V | A | 32 (2) |
| | 60V | A | 32 (3) |
| | 110V | A | 15 (3) |
| | 220V | A | 12 (4) |
| DC13 | 24V | A | 32 |
| | 48V | A | 25 |
| | 60V | A | 16 |
| | 110V | A | 3 |
| | 220V | A | 0.5 |
| Power dissipation | | W | 1.5 |
| Mechanical features | | | |
| Terminals screw | | | M4 |
| Tightening torque for terminals max | | Nm | 1.2 |
| Conductor size | | | |
| AWG - Rigid cable | min | AWG | 16 |
| | Max | AWG | 8 |
| AWG - Flexible cable | min | AWG | 16 |
| | Max | AWG | 10 |
| Conductor size (IEC) - Flexible cable | min | mm ² | 1.5 |
| | Max | mm ² | 4 |
| Conductor size (IEC) - Rigid cable | min | mm ² | 1.5 |
| | Max | mm ² | 6 |
| Mechanical life | | cycles | 5x10 ⁶ |
| UL technical data | | | |
| Motor power for direct-on-line control | | | |
| for three-phase motor | 120V | HP | 5 |
| | 240V | HP | 10 |
| | 480V | HP | 15 |
| | 600V | HP | 15 |
| for single-phase motor | 120V | HP | 2 |
| | 240V | HP | 5 |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | min | °C | -25 |
| | max | °C | +55 |
| Storage temperature | min | °C | -40 |
| | max | °C | +70 |
| Resistance & Protection | | | |
| Frontal IP degree | | | IP65 |
| Terminals IP degree | | | IP00 |

Dimensions

| Series | Enclosure size | Number of elements | | Dimensions | | | | | | | | | | Cable entry | Protection degree |
|---------------------|--------------------|--------------------|-----|------------|-----|---------|---------|-----|----|----|------|------|-------|------------------|-------------------|
| | | L | L1 | A | A1 | C | C1 | D | F | M | N | L | L1 | | |
| 7GN12 [Ⓟ] | 75x75 [Ⓟ] | 1-2 | 3-4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 7GN20 [Ⓟ] | | 1-2 | 3-4 | | | | | | | | | | | | |
| 7GN25 [Ⓟ] | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 [Ⓟ] | 90x90 | 1-3 | 4-6 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN20 [Ⓟ] | | 1-3 | 4-6 | | | | | | | | | | | | |
| 7GN25 [Ⓟ] | | 1-2 | 3-4 | | | | | | | | | | | | |
| 7GN32 | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN40 | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 110x110 | 1-4 | 5-8 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 7GN20 | | 1-4 | 5-8 | | | | | | | | | | | | |
| 7GN25 | | 1-3 | 4-5 | | | | | | | | | | | | |
| 7GN32 [Ⓟ] | | 1-2 | 3-5 | | | | | | | | | | | | |
| 7GN40 [Ⓟ] | | 1-2 | 3-5 | | | | | | | | | | | | |
| 7GN63 | | 1-2 | 3-4 | | | | | | | | | | | | |
| 7GN32 [Ⓟ] | 125x175 | 1-2 | 3-4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 4xPG21 2xPG11 | IP65 |
| 7GN40 [Ⓟ] | | 1-2 | 3-4 | | | | | | | | | | | | |
| 7GN63 [Ⓟ] | | 1-2 | 3-4 | | | | | | | | | | | | |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | |
| 7GN32 | 198x248 | - | 1-7 | 198 | 248 | 190-210 | 140-180 | 5.5 | 32 | 35 | 104 | - | 166.5 | 6xPG16- 21-29 | IP65 |
| 7GN40 | | - | 1-7 | | | | | | | | | | | | |
| 7GN63 [Ⓟ] | | - | 1-6 | | | | | | | | | | | | |
| 7GN125 [Ⓟ] | | - | 1-4 | | | | | | | | | | | | |

- Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).
- Ⓟ D Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

Wiring diagrams



Certifications and compliance

Compliance

IEC/EN/BS 60947-1
IEC/EN/BS 60947-3
IEC/EN/BS 60947-5-1

Certificates

EAC

ETIM classification

ETIM 8.0

EC001029 -
Selector switch,
complete