



General characteristics

| | |
|-------------------|---|
| Switching diagram | 109 - Multi-step 0-1-2-3-4 1 pole |
| N° of elements | 2 |
| 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 | 16 | |
| | UL/CSA | A | 15 | |
| Rated operational voltage | | V | 480 | |
| Rated operational impulse voltage | | kV | 4 | |
| Maximum fuse size for short-circuit protection I_n (gG) | 10kA | A | 16 | |
| | 15kA | A | 10 | |
| | 25kA | A | 10 | |
| Rated short time current I_{cw} | 1s | kA | 200 | |
| | | | 10/5 mA/V | |
| Conductivity | | | 10/5 mA/V | |
| Operational current I_e 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 |
| <hr/> | | | |
| Rated operational current in DC | | | |
| DC21A | | | |
| | 48V | A | 12 |
| | 60V | A | 12 |
| | 110V | A | 4 |
| | 220V | A | 0.6 |
| | 440V | A | 0.25 |
| <hr/> | | | |
| DC23A (poles in series) | | | |
| | 24V | A | 10 (1) |
| | 48V | A | 10 (2) |
| | 60V | A | 10 (3) |
| | 110V | A | 5 (3) |
| | 220V | A | 5 (4) |
| <hr/> | | | |
| DC13 | | | |
| | 24V | A | 12 |
| | 48V | A | 10 |
| | 60V | A | 8 |
| | 110V | A | 1 |
| | 220V | A | 0.4 |
| | 440V | A | 0.15 |
| <hr/> | | | |
| Power dissipation | | W | 0.8 |
| Mechanical features | | | |
| Terminals screw | | | M3 |
| Tightening torque for terminals max | | Nm | 0.5 |
| <hr/> | | | |
| Conductor size | | | |
| AWG - Rigid cable | | | |
| | min | AWG | 20 |
| | Max | AWG | 12 |
| <hr/> | | | |
| AWG - Flexible cable | | | |
| | min | AWG | 20 |
| | Max | AWG | 14 |
| <hr/> | | | |
| Conductor size (IEC) - Flexible cable | | | |
| | min | mm ² | 0.5 |
| | Max | mm ² | 2.5 |
| <hr/> | | | |
| Conductor size (IEC) - Rigid cable | | | |
| | min | mm ² | 0.5 |
| | Max | mm ² | 2.5 |
| <hr/> | | | |
| 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 |
| <hr/> | | | |
| for single-phase motor | | | |
| | 120V | HP | 0.5 |
| | 240V | HP | 1 |
| <hr/> | | | |
| Ambient conditions | | | |
| Temperature | | | |
| Operating temperature | | | |
| | min | °C | -25 |
| | max | °C | +55 |

Storage temperature

min °C -40
max °C +70

Resistance & Protection

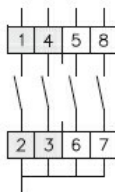
Frontal IP degree IP65
Terminals IP degree IP00

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

Wiring diagrams



| | | | | |
|---|---|---|---|---|
| 0 | | | | |
| 1 | X | | | |
| 2 | | | X | |
| 3 | | X | | |
| 4 | | | | X |

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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