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|---|-----------|----|------|--|
| Product designation | | | | Rotary cam switches |
| Product type designation | | | | 7GN125 |
| General characteristics | | | | |
| Switching diagram | | | | 53 - Changeover switch 3 poles - 2 speed motor starting with separate windings |
| N° of elements | | | | 3 |
| Mounting form | | | | Front mounting with black handle (U) |
| 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 | 125 | |
| | UL/CSA | A | 130 | |
| Rated operational voltage | | | V | 690 |
| Rated operational impulse voltage | | | kV | 6 |
| Maximum fuse size for short-circuit protection I_n (gG) | 10kA | A | 125 | |
| | 15kA | A | 100 | |
| | 25kA | A | 100 | |
| | 50kA | A | 100 | |
| | 63kA | A | 100 | |
| Rated short time current I_{cw} | | | 1s | A |
| | | | | 2100 |
| Conductivity | | | | 10/5 mA/V |
| Operational current I_e IEC/EN | AC1/AC21A | | | A |
| | AC15 | | | 125 |
| Rated operational power in AC | 110V | | | A |
| | 220/230V | | | A |
| | 380/400V | | | A |
| | 660/690V | | | A |
| | | | | 5 |
| Three-phase AC3 | 220/230V | kW | 18.5 | |
| | 380/440V | kW | 37 | |
| | 500/690V | kW | 33 | |
| Single-phase AC3 | 110V | kW | 5 | |
| | 220/230V | kW | 11 | |
| | 380/440V | kW | 15 | |
| Three-phase AC23A | 220/230V | kW | 30 | |
| | 380/440V | kW | 45 | |
| | 500/690V | kW | 37 | |

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|--|----------|-----------------|-------------------|
| Single-phase AC23A | | | |
| | 110V | kW | 5 |
| | 220/230V | kW | 11 |
| | 380/440V | kW | 15 |
| Rated operational current in DC | | | |
| DC21A | | | |
| | 48V | A | 125 |
| | 60V | A | 80 |
| | 110V | A | 10 |
| | 220V | A | 1.2 |
| DC23A (poles in series) | | | |
| | 24V | A | 125 (1) |
| | 48V | A | 125 (2) |
| | 60V | A | 125 (3) |
| | 110V | A | 50 (3) |
| | 220V | A | 20 (4) |
| DC13 | | | |
| | 24V | A | 125 |
| | 48V | A | 100 |
| | 60V | A | 50 |
| | 110V | A | 4 |
| Power dissipation | | W | 6.3 |
| Mechanical features | | | |
| Terminals screw | | | M2X5 |
| Tightening torque for terminals max | | Nm | 2 |
| Conductor size | | | |
| AWG - Rigid cable | | | |
| | min | AWG | 14 |
| | Max | AWG | 1/0 |
| AWG - Flexible cable | | | |
| | min | AWG | 14 |
| | Max | AWG | 1/0 |
| Conductor size (IEC) - Flexible cable | | | |
| | min | mm ² | 2.5 |
| | Max | mm ² | 50 |
| Conductor size (IEC) - Rigid cable | | | |
| | min | mm ² | 2.5 |
| | Max | mm ² | 50 |
| Mechanical life | | cycles | 1X10 ⁶ |
| UL technical data | | | |
| Motor power for direct-on-line control | | | |
| for three-phase motor | | | |
| | 120V | HP | 15 |
| | 240V | HP | 25 |
| | 480V | HP | 50 |
| | 600V | HP | 40 |
| for single-phase motor | | | |
| | 120V | HP | 5 |
| | 240V | HP | 15 |
| 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

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

EAC
UL

ETIM classification

| | |
|----------|----------------------------|
| ETIM 8.0 | EC001105 - Off-load switch |
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