

ROTARY CAM SWITCH 7GN SERIES, CHANGEOVER SWITCH 4 POLES 125A, FOR FRONT MOUNTING WITH BLACK HANDLE, FRONT PLATE 65X65MM



| Product designation | | | Rotary cam |
|--|--------------|---------------|-------------------------|
| Product type designation | | | switches 7GN125 |
| General characteristics | | | 7611123 |
| Switching diagram | | | 75 - Changeove |
| | | | switch 4 poles |
| N° of elements | | | 4 |
| Mounting form | | | U - Front mounting with |
| Woulding form | | | 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 | Α | 125 |
| | UL/CSA | <u> </u> | 130 |
| Rated operational voltage | | V | 690 |
| Rated operational impulse voltage | | kV | 6 |
| Maximum fuse size for short-circuit protection In (gG) | 401-4 | ^ | 405 |
| | 10kA | A | 125 |
| | 15kA 25kA | A A | 100 100 |
| | 50kA | A | 100 |
| | 63kA | A | 100 |
| Rated short time current lcw | OOKA | | 100 |
| Traise short time surront low | 1s | kA | 2100 |
| Conductivity | | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | | |
| | | Α | 125 |
| AC15 | | | |
| | 110V | Α | 40 |
| | 220/230V | Α | 28 |
| | 380/400V | Α | 15 |
| | 660/690V | Α | 5 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | | | |
| | 220/230V | kW | 18.5 |
| | 380/440V | kW | 37 |
| Single phase AC 2 | 500/690V | kW | 33 |
| Single-phase AC-3 | 110V | //// | 5 |
| | 220/230V | kW kW | 5 11 |
| | 380/440V | kW | 15 |





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| | Three-phase AC23A | | | |
|--|---|---|--|---|
| | | 220/230V | kW | 30 |
| | | 380/440V | kW | 45 |
| | | 500/690V | kW | 37 |
| | Single-phase AC23A | | | |
| | 5 1 | 110V | kW | 5 |
| | | 220/230V | kW | 11 |
| | | 380/440V | kW | 15 |
| Rated operational curr | rent in DC | | | |
| · | DC21A | | | |
| | | 48V | Α | 125 |
| | | 60V | Α | 80 |
| | | 110V | Α | 10 |
| | | 220V | Α | 1.2 |
| | DC23A (poles in series) | | | |
| | (()) | 24V | Α | 125 (1) |
| | | 48V | Α | 125 (2) |
| | | 60V | Α | 125 (3) |
| | | 110V | Α | 50 (3) |
| | | 220V | Α | 20 (4) |
| | DC13 | | | (·/ |
| | | 24V | Α | 125 |
| | | 48V | Α | 100 |
| | | 60V | A | 50 |
| | | 110V | A | 4 |
| Power dissipation | | 1101 | W | 6.3 |
| Mechanical features | | | | 0.0 |
| | | | | |
| Terminals screw | | | | M2X5 |
| Terminals screw Tightening torque for t | terminals max | | Nm | M2X5 |
| Tightening torque for t | erminals max | | Nm | M2X5 2 |
| | | | Nm | |
| Tightening torque for t | erminals max AWG - Rigid cable | min | | 2 |
| Tightening torque for t | | min Max | AWG | 14 |
| Tightening torque for t | AWG - Rigid cable | min Max | | 2 |
| Tightening torque for t | | Max | AWG AWG | 14 1/0 |
| Tightening torque for t | AWG - Rigid cable | Max min | AWG AWG | 14 1/0 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable | Max | AWG AWG | 14 1/0 |
| Tightening torque for t | AWG - Rigid cable | Max min Max | AWG AWG AWG AWG | 14 1/0 14 1/0 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable | Max min Max min | AWG AWG AWG AWG | 14 1/0 14 1/0 2.5 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max | AWG AWG AWG AWG | 14 1/0 14 1/0 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable | Max min Max min Max | AWG AWG AWG AWG mm² mm² | 14 1/0 14 1/0 2.5 50 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min | AWG AWG AWG AWG mm² mm² | 2 14 1/0 14 1/0 2.5 50 2.5 |
| Tightening torque for t | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max | AWG AWG AWG AWG mm² mm² | 2 14 1/0 14 1/0 2.5 50 |
| Tightening torque for to Conductor size Mechanical life | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min | AWG AWG AWG AWG mm² mm² | 2 14 1/0 14 1/0 2.5 50 2.5 |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min | AWG AWG AWG AWG mm² mm² | 2 14 1/0 14 1/0 2.5 50 |
| Tightening torque for to Conductor size Mechanical life | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min | AWG AWG AWG AWG mm² mm² | 2 14 1/0 14 1/0 2.5 50 |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max | AWG AWG AWG AWG mm² mm² cycles | 2 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max | AWG AWG AWG AWG mm² mm² cycles | 2 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max 120V 240V | AWG AWG AWG AWG mm² mm² cycles | 2 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max 120V 240V 480V | AWG AWG AWG AWG mm² mm² cycles | 2 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ 15 25 50 |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor | Max min Max min Max min Max 120V 240V | AWG AWG AWG AWG mm² mm² cycles | 2 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min Max 120V 240V 480V 600V | AWG AWG AWG AWG mm² mm² cycles | 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ 15 25 50 40 |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor | Max min Max min Max min Max 120V 240V 480V 600V | AWG AWG AWG Mm² mm² mm² cycles HP HP HP HP | 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ 15 25 50 40 |
| Tightening torque for to Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable t-on-line control for three-phase motor | Max min Max min Max min Max 120V 240V 480V 600V | AWG AWG AWG AWG mm² mm² cycles | 14 1/0 14 1/0 2.5 50 2.5 50 1X10 ⁶ 15 25 50 40 |

ENERGY AND AUTOMATION

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Temperature

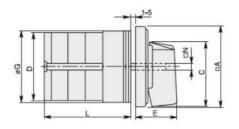
Operating temperature

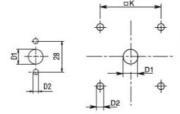
| | min | °C | -25 | |
|---------------------|-----|----|-----|--|
| | max | °C | +55 | |
| Storage temperature | | | | |
| | min | °C | -40 | |
| | max | °C | +70 | |

Resistance & Protection

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

Dimensions

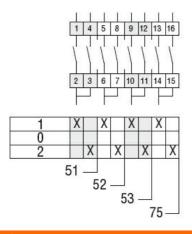




Standard drillings for 7GN125. Drillings on request for 4 screws fixing (4V version).

| Series | Dimensions | | | | | | | | L Number of elements | | | | | | | | | | | | |
|--------|------------|------|----|-----|-----|------|------|----|----------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Series | □A | С | ØD | ØD1 | ØD2 | Е | ØG | □K | □N | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 7GN12 | 48 | 39.5 | 39 | 12 | 5 | 26.5 | 38 | 36 | 6 | 36.1 | 45.8 | 55.5 | 65.2 | 74.9 | 84.6 | 94.3 | 104 | 113.7 | 123.4 | 133.1 | 142.8 |
| 7GN20 | 48 | 39.5 | 39 | 12 | 5 | 26.5 | 38 | 36 | 6 | 36.1 | 45.8 | 55.5 | 65.2 | 74.9 | 84.6 | 94.3 | 104 | 113.7 | 123.4 | 133.1 | 142.8 |
| 7GN25 | 48 | 39.5 | 43 | 12 | 5 | 26.5 | 38 | 36 | 6 | 40.5 | 54.1 | 67.7 | 81.3 | 94.9 | 108.5 | 122.1 | 135.7 | 147.3 | 162.9 | 176.5 | 190.1 |
| 7GN32 | 65 | 53 | 58 | 14 | 5 | 34.5 | 58.5 | 48 | 7 | 46.5 | 61.6 | 76.7 | 91.8 | 106.9 | 122 | 137.1 | 152.2 | 167.3 | 182.4 | 197.5 | 212.6 |
| 7GN40 | 65 | 53 | 58 | 14 | 5 | 34.5 | 58.5 | 48 | 7 | 46.5 | 61.6 | 76.7 | 91.8 | 106.9 | 122 | 137.1 | 152.2 | 167.3 | 182.4 | 197.5 | 212.6 |
| 7GN63 | 65 | 53 | 62 | 14 | 5 | 34.5 | 58.5 | 48 | 7 | 50.3 | 68.4 | 86.5 | 104.6 | 122.7 | 140.8 | 158.9 | 177 | 195.1 | 213.2 | 231.3 | 249.4 |
| 7GN125 | 90 | 70.5 | 86 | 16 | 6 | 41.5 | 84 | 68 | 9 | 67.3 | 96.4 | 125.5 | 154.6 | 183.7 | 220.3 | 249.4 | 278.5 | 307.6 | 336.7 | 365.8 | 394.9 |

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





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ETIM classification

ETIM 8.0 EC001105 - Off-load switch