



| | | | | • |
|--------------------------|------------------------------------|----------------------|--------|---------------------------------|
| Product designation | | | | Rotary cam |
| Product type designat | ion | | | switches 7GN20 |
| General characteristic | | | | 761120 |
| Switching diagram | | | | 10 - ON/OFF |
| | | | | switch 3 poles |
| N° of elements | | | | 2 |
| Mounting form | | | | P25 - Plastic enclosure with |
| Mounting form | | | | red/yellow handle |
| Contact characteristic | S | | | |
| Rated insulation voltage | ge Ui | | | |
| | | IEC/EN | V | 690 |
| | | UL/CSA | V | 600 |
| Rated impulse withsta | | | kV | 6 |
| Conventional free air t | hermal current Ith | | | |
| | | IEC/EN | A | 20 |
| Deted an anotice al welt | | UL/CSA | A V | 20 |
| Rated operational volt | | | - | 480 |
| Rated operational imp | r short-circuit protection In (gG) | | kV | 4 |
| Maximum ruse size io | r short-circuit protection in (gG) | 10kA | А | 20 |
| | | 15kA | A | 16 |
| | | 25kA | A | 16 |
| Rated short time curre | ent Icw | | | |
| | | 1s | kA | 250 |
| Conductivity | | | | 10/5 mA/V |
| Operational current le | IEC/EN | | | |
| | AC1/AC21A | | | |
| | | | A | 20 |
| | AC15 | | | |
| | | 110V | A | 10 |
| | | 220/230V 380/400V | A A | 8 6 |
| | | 660/690V | A | 1.5 |
| Rated operational pow | ver in AC | 000,000 1 | | 1.0 |
| | Three-phase AC-3 | | | |
| | | 220/230V | kW | 3 |
| | | 380/440V | kW | 5.5 |
| | | 500/690V | kW | 5.5 |
| | Single-phase AC-3 | | | |
| | | 110V | kW | 0.8 |
| | | 220/230V | kW | 2.2 |
| | | 380/440V | kW | 3 |
| | Three-phase AC23A | 220/230V | kW | 5 |
| | | 220/230V | K V V | J |

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



7GN2010P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

| | | 380/440V | kW | 7.5 |
|--|--|---|---|---|
| | | 500/690V | kW | 7.5 |
| | Single-phase AC23A | | | |
| | | 110V | kW | 0.8 |
| | | 220/230V | kW | 2.5 |
| | | 380/440V | kW | 3.7 |
| Rated operational cur | rrent in DC | | | |
| | DC21A | | | |
| | DOLIN | 48V | А | 20 |
| | | 60V | A | 20 |
| | | 110V | A | 4 |
| | | 220V | A | 4 0.6 |
| | | 440V | | |
| | | 440 V | A | 0.25 |
| | DC23A (poles in series) | 0.01 | | 22 (1) |
| | | 24V | A | 20 (1) |
| | | 48V | А | 20 (2) |
| | | 60V | А | 20 (3) |
| | | 110V | А | 10 (3) |
| | | 220V | А | 8 (4) |
| | DC13 | | | |
| | | 24V | А | 20 |
| | | 48V | А | 16 |
| | | 60V | А | 12 |
| | | 110V | А | 1 |
| | | 220V | A | 0.4 |
| | | 440V | A | 0.15 |
| Power dissipation | | 1107 | W | 0.8 |
| i ower alssipation | | | | 0.0 |
| Mechanical features | | | | |
| Mechanical features | | | | |
| Terminals screw | terminals max | | | M3 |
| Terminals screw Tightening torque for | terminals max | | Nm | |
| Terminals screw | | | | M3 |
| Terminals screw Tightening torque for | terminals max AWG - Rigid cable | | Nm | M3 0.5 |
| Terminals screw Tightening torque for | | min | Nm | M3 0.5 20 |
| Terminals screw Tightening torque for | AWG - Rigid cable | min Max | Nm | M3 0.5 |
| Terminals screw Tightening torque for | | Max | Nm AWG AWG | M3 0.5 20 12 |
| Terminals screw Tightening torque for | AWG - Rigid cable | Max min | Nm AWG AWG AWG | M3 0.5 20 12 20 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable | Max | Nm AWG AWG | M3 0.5 20 12 |
| Terminals screw Tightening torque for | AWG - Rigid cable | Max min | Nm AWG AWG AWG | M3 0.5 20 12 20 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable | Max min | Nm AWG AWG AWG | M3 0.5 20 12 20 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable | Max min Max | Nm AWG AWG AWG AWG | M3 0.5 20 12 20 14 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min | Nm AWG AWG AWG AWG mm ² | M3 0.5 20 12 20 14 0.5 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable | Max min Max min | Nm AWG AWG AWG AWG mm ² | M3 0.5 20 12 20 14 0.5 2.5 |
| Terminals screw Tightening torque for | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min | Nm AWG AWG AWG AWG mm ² mm ² | M3 0.5 20 12 20 14 0.5 2.5 0.5 |
| Terminals screw Tightening torque for Conductor size | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max | Nm AWG AWG AWG AWG mm ² mm ² mm ² | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for Conductor size | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable | Max min Max min Max min | Nm AWG AWG AWG AWG mm ² mm ² | M3 0.5 20 12 20 14 0.5 2.5 0.5 |
| Terminals screw Tightening torque for 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 | Nm AWG AWG AWG AWG mm ² mm ² mm ² | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for Conductor size | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable | Max min Max min Max min | Nm AWG AWG AWG AWG mm ² mm ² mm ² | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 |
| Terminals screw Tightening torque for 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 | Nm AWG AWG AWG AWG mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 0.5 2.5 5x10 ⁶ |
| Terminals screw Tightening torque for 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 120V | Nm AWG AWG AWG AWG mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 0.5 2.5 5x10 ⁶ |
| Terminals screw Tightening torque for 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 | Nm AWG AWG AWG Mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 |
| Terminals screw Tightening torque for 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 | Nm AWG AWG AWG AWG mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 |
| Terminals screw Tightening torque for Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ct-on-line control for three-phase motor | Max min Max min Max min Max | Nm AWG AWG AWG Mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 |
| Terminals screw Tightening torque for 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 | Nm AWG AWG AWG mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 10 |
| Terminals screw Tightening torque for Conductor size Mechanical life UL technical data | AWG - Rigid cable AWG - Flexible cable Conductor size (IEC) - Flexible cable Conductor size (IEC) - Rigid cable ct-on-line control for three-phase motor | Max min Max min Max min Max 120V 240V 480V | Nm AWG AWG AWG AWG mm ² mm ² mm ² cycles | M3 0.5 20 12 20 14 0.5 2.5 0.5 2.5 5x10 ⁶ 1.5 3 7.5 |

7GN2010P25

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



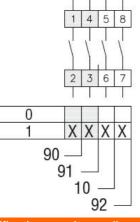
7GN2010P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

ENERGY AND AUTOMATION

Ambient conditions Temperature

| Tempera | ture | | | | | | | | | | | | | | | | |
|----------------|---------------------|-------------------|----------------|---------|--------|-------|------|---------|-------|------|------|-------------------|----------|------------------|-------------------|------|--|
| | | | Opera | tina te | mpera | ature | | | | | | | | | | | |
| | | | | | | | | | | | | | n | nin | °C | -25 | |
| | | | | | | | | | | | | | | | °Č | +55 | |
| | | | Storag | ie tem | perati | ire | | | | | | | | | | | |
| | | | Otorug | | porun | | | | | | | | n | nin | °C | -40 | |
| | | | | | | | | | | | | | | | | +70 | |
| Popieton | oo 9 Dr | otootior | 2 | | | | | | | | | | 111 | ах | C | +70 | |
| Resistan | | | 1 | | | | | | | | | | | | | IDOS | |
| Frontal IF | - | | | | | | | | | | | | | | | IP65 | |
| Terminal | | gree | | | | | | | | | | | | | | IP00 | |
| Dimensic | ons | | | | | | | | | | | | | | | | |
| ŀ | < N > | | -M | - ► | | | Ĩ | -M- | | | | H | C1 | | | | |
| i d | ++- | ÷ 1 | _ | -K" | | | | - 4 | n | | | ۲ ص | | | _ | | |
| Ύ | - | $ \Psi $ | | | h | | | | | h | | Ť | | Ψ, | 1 | | |
| | A 1 | | | | ĥ | | | | | ľ | P | | | | | | |
| + | (())) → | | + | | | + | - | | | | +-+ | - | | —— o | | | |
| | 11P | | | | P | | | | | | | | 1 | | | | |
| <u>لہ ل</u> ے | <u> </u> | ÷. | | 5 | N. | _ | | 5 | | | 4 | 4 | | | Ļ | | |
| ₽ | <u> </u> | the t | - | | | F | | - | L1 | | F | 14 | _D | -\$ | L | | |
| - | 0 | | - | - | | | ŀ | • | | > | < `> | > | ← | | | | |
| Series | Enclosure | Number o | felements | | | | | Dimer | | | | - | | Cable entry | Protection degree | | |
| | size | L | L1 | A | A1 | C | C1 | D | F | М | N | L | L1 | entry | degree | | |
| 7GN12 7GN20 | 75x75 | 1-2 | 3 - 4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 | | |
| 7GN25 | | 1 | 2-3 | 15 | 15 | 50 | 04 | 4.0 | 13 | 14 | 20 | 57.5 | 19.0 | 441013.3 | 1105 | | |
| 7GN12 | 90x90 | 1-3 | 4 - 6 | | | | | | | | | | | | | | |
| 7GN20 | | 1-3 | 4 - 6 | 8498 | 19678 | 1999 | 1993 | 1950527 | 685.6 | 1000 | 1973 | 2002080 | (04344) | - | 10000000 | | |
| 7GN25 | | 1-2 | 3-4 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 | | |
| 7GN32 7GN40 | | 1-2 | 3-4 | - | | | | | | | | | | | | | |
| 7GN40 | 110x110 | 1-4 | 5-8 | | | | | | | | | | - | | | | |
| 7GN20 | TIOXITO | 1-4 | 5-8 | 1 | | | | | | | | | | | | | |
| 7GN25 | | 1-3 | 4 - 5 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 | | |
| 7GN32 | | 1-3 | 4 - 5 | | 110 | 30.4 | 00 | 4.0 | 02 | 21 | 00.0 | 00.0 | 110.0 | 471 021 | 11 05 | | |
| 7GN40 7GN63 | | 1-2 | 3 - 5 3 - 4 | | | | | | | | | | | | | | |
| 7GN32 | 125x175 | 1-2 | 4-5 | | | | | | | | | | | | | | |
| 7GN40 | 1232175 | 1-2 | 3-4 | | | | | | | | | | | 4xPG21 | | | |
| 7GN63 | | 1 - 2 | 3 - 4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 2xPG11 | IP65 | | |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | | | |
| 7GN32 7GN40 | 180x254 | 1-5 | 6-8 | | | | | | | | | | | 4.0000 | | | |
| 7GN40 7GN63 | | <u>1-4</u> 1-3 | 5 - 7 4 - 6 | 180 | 254 | 120 | 190 | 5.5 | 32 | 35 | 76 | 121 | 175 | 4xPG29 2xPG11 | IP65 | | |
| 7GN125 | | 1-2 | 3-4 | | | | | | | | | | | E. GIT | | | |
| | arama | | | | | | | | | | + | | - | + | | | |

Wiring diagrams



Certifications and compliance Compliance

7GN2010P25

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



7GN2010P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 20A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

| | IEC/EN/BS 60947-1 | |
|---------------------|---------------------|-----------------|
| | IEC/EN/BS 60947-3 | |
| | IEC/EN/BS 60947-5-1 | |
| Certificates | | |
| | EAC | |
| ETIM classification | | |
| ETIM 8.0 | | EC001105 - Off- |

load switch

7GN2010P25