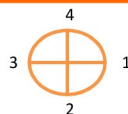
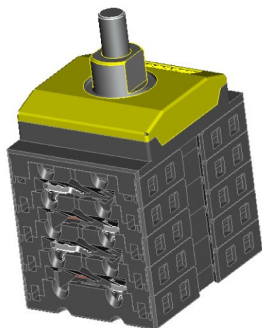


TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH: X60.32RLKS1-A-24.32.2



Switch disconnecter for solar application according to UL 508, CSA C22.2 No. 0 – M91, - CSA C22.2 No. 14 – 05

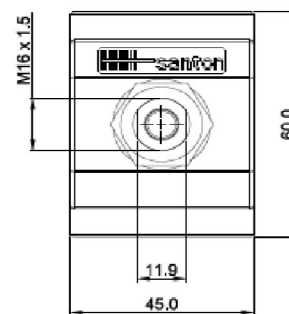


| Marking | Contact scheme | | Positions | | | |
|---------|----------------|---------|-----------|---|---|---|
| | Symbol | Marking | 1 | 2 | 3 | 4 |
| 12 | — / — | | | | | |
| 11 | — / — | | | | | |
| 10 | — / — | | | X | X | |
| 9 | — / — | | | X | X | |
| 8 | — / — | | | | | |
| 7 | — / — | | | | | |
| 6 | — / — | | | | | |
| 5 | D | — / — | C | X | X | |
| 4 | B | — / — | A | X | X | |
| 3 | EMPTY | | | | | |
| 2 | — / — | | 1 | X | X | |
| 1 | — / — | | 1 | X | X | |

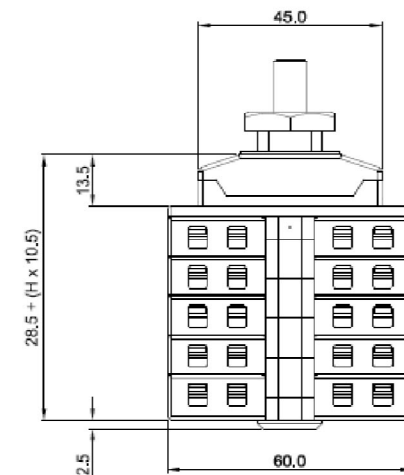
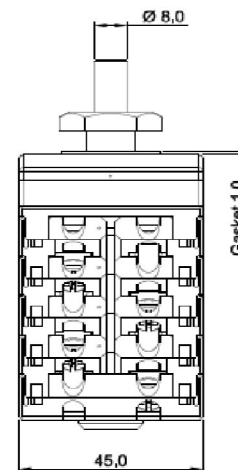
Contacts are made in "X" marked position.

Symbols for connections between contacts: []

| Technical data | Symbol | X60.32RLKS1-A-24.32.2 | Unit |
|---|--------|--|-----------------|
| nominal voltage | Ue | 600 | V |
| nominal current | Ie | 32 | A |
| method of mounting | | reverse single hole mounting IP65 [R] terminals access from bottom side long gland | |
| number of poles | | DC single pole switching | 1 |
| utilization category | | Photovoltaic disconnect switch | |
| actuator | | standard black [A], | |
| method of operation | | independent manual operation | |
| positions | | OFF at 3 hr, ON at 6 hr, OFF at 9 hr, ON at 12 hr | |
| rated impulse withstand voltage | | 8 | kV |
| insulation voltage | | 600 | V |
| rated thermal current uninterrupted duty | | 32 | A |
| rated short-time withstand current (1s) | | 960 | A |
| short-circuit rating at 600V dc, when protected by a fuse equal to or smaller than a 100A super rapid fuse type CR6L -100 | | 5 | kA |
| max power dissipation | | 6,6 | W |
| minimum required dimensions of enclosures l x w x h* | | 124 x 47 x 84 | mm |
| * see the drawing for the height of the switch. The number of layers is | H | 5 | |
| tightening torque terminal screws M4, min. - max. | | 1,5 | 1,7 Nm |
| | | 13 | 15 Lb.In |
| wire size, "Copper Wire Only", minimum required fine wire cross-section | | 6 | mm ² |
| | | 10 | AWG |
| tightening torque panel mounting nut, min. - max. | | 2 | 2,5 Nm |
| | | 18 | 22 Lb.In |
| tightening torque M3 screw in the standard black knob, min. - max. | | 0,5 | 0,7 Nm |
| | | 5 | 6 Lb.In |
| ambient temperature allowed between | | - 5 and + 40 | °C |
| storage temperature allowed between | | - 40 and + 80 | °C |
| maximum relative humidity, without condensation at 20°C | | 90 | % |
| watertight gland, class | | | |
| nominal voltage AC | U | 240 | V AC |
| nominal current AC | I | 32 | A AC |
| number of poles AC | | 2 | |
| auxiliary contact, nominal current 16A at 250 V, AC15 | | No auxiliary contact | |
| weight | | 254 | g |
| accessoires: | | 0 | |



H is the number of layers in the switch



Mounting instructions

In the application all ratings have to be respected. When building the switch in an enclosure, the space envelope must be respected. The terminals, without interconnection can take copper wires up to 6 mm². The recommended Spade Tongue Terminals may have a maximum width of 9 mm. For CSA and UL applications, registered Spade Tongue Terminals must be used. The registration numbers are UL: E13288 and CSA: LR7189 (for instance type 165015 from Tyco). After mounting, the wiring must be checked and the switch must operate smoothly.

Maintenance

The X type switches are designed for a very long life but they need some simple yearly maintenance.

- Check the installation for signs of overload or overheating. The terminals may not exceed the limit of 85°C under full load.
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.