THE NEW SANTON X-TYPE SWITCH

TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH:

X60.16R2E-A



Switch disconnector for solar application according to

IEC 60947-1&3



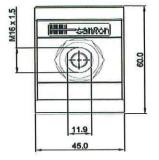
| - 1 | Contact scheme | | | | Positions | | | |
|-----|----------------|--------|---------|---|-----------|---|---|--|
| М | Marking | Symbol | Marking | 1 | | 3 | 4 | |
| 12 | | -/- | | | | | | |
| 11 | | -/- | | | | | | |
| 10 | | -/- | | | | | | |
| 9 | | -/- | | | | | | |
| 8 | | -/- | | | | | | |
| 7 | | -/- | | | | | | |
| 6 | | -/- | | | | | | |
| 5 | | -/- | | | | | | |
| 4 | | -/- | | | | | | |
| 3 | | -/- | | | | | | |
| 2 | -1 | -/- | -1 | X | | | | |
| 1 | +1 | -/- | +1 | Х | | | | |

Symbols for interconnection: []

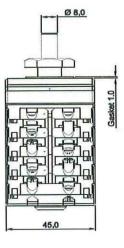
| | Symbols for interconnections [] | | | | |
|--|--|---------------|-------------|-----------------|--|
| Technical data | Symbol | Uni | t | -157 | |
| nominal voltage (DC poles) | Ue | | 600 | V dc | |
| nominal current (DC poles) | le | | 16 | A dc | |
| nominal voltage (second rating DC poles, if requested) | Ue | | | V dc | |
| nominal current (second rating DC poles, if requested) | le | | | A dc | |
| method of mounting reverse single hole mou | unting IP65 [R] ter | rminals acc | cess from l | oottom s | |
| number of DC poles | | | 2 | | |
| utilization category DC | DC-21B | | | | |
| ctuator standard black [A], | | | | | |
| positions | OFF at 12 hr, ON at 3 hr [E] | | | | |
| rated impulse withstand voltage | Uimp | | 8 | kV | |
| insulation voltage | Ui | | 600 | ٧ | |
| rated thermal current uninterrupted duty | lu | | 16 | Α | |
| rated short-time withstand current (1s) | lcw | | 480 | Α | |
| rated short-circuit making capacity | Icm | | 1,4 | kA | |
| rated conditional short-circuit current | | | 2 | kA | |
| max. cut-off current | | | | kA | |
| max power dissipation | 0,7 | | w | | |
| method of operation | independent manual operation | | | | |
| minimum required dimensions of enclosures l x w x h* | | 124 x 47 x 53 | | mm | |
| * see the drawing for the height of the switch. The number of layers H is: | | | 2 | | |
| tightening torque terminal screws M4, min max. | | 1,5 | 1,7 | Nm | |
| tightening torque panel mounting nut, min max. | | 2,0 | 2,5 | Nm | |
| tightening torque screw in the standard black knob, min max. | | 0,5 | 0,7 | Nm | |
| minimum required fine wire cross-section: IEC60947-1, table 9 | | | 2,5 | mm ² | |
| ambient temperature allowed between | - 5 and + 40 | | | 'c 'c | |
| torage temperature allowed between | | - 40 and + 80 | | | |
| maximum relative humidity, without condensation at 20°C | um relative humidity, without condensation at 20°C | | 90 | % | |
| pollution degree | | | 2 | | |
| IP rating terminals | | | IP20 | | |
| IP rating gland of the shaft in case of single hole panel mounting | | | IP65 | | |
| nominal voltage (AC poles) | Ue | | 0 | VAC | |
| nominal current (AC poles) | le | | 0 | A AC | |
| number of DC poles | | | 0 | | |
| auxiliary contact, nominal current 16A at 250 V, AC15 | No auxiliary o | contact | | | |
| weight | | | 157 | g | |
| accessories: | | | | | |

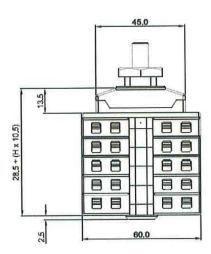






H is the number of layers in the switch





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 it is advised to do 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.

Dimensions, specifications and data shown could be subject to change without notice.

JD Auspice Co.,Ltd. TEL: 886-2-2595-9780 FAX: 886-2-2595-9412 service@jdauspice.com www.jdauspice.com

Superior Switch Solutions