



- For panel mounting
- For use in Industry, Maritime and offshore, Machine Building
- The switches are built in accordance with the standards laid down in IEC947, IEC204, CEE24, VDE0630, VDE0660, VDE113, BS5419
- Switches could be delivered with requested text on plate

## Specifications

Rated Voltage:	Up to 690V (IEC/VDE/BS)
Rated Current:	I nom. 20A
Rated Overcurrent:	1 sec - 250A 3 sec - 150A 10 sec - 80A 30 sec - 50A 60 sec - 40A
Dimensions:	D41 & D54: 48 x 48 x 52mm D43 & T90: 48 x 48 x 65mm
Weight:	D41 & D54: 93g D43 & T90: 114g
Cable crosssection:	min: 0,5mm <sup>2</sup> max: 2,5mm <sup>2</sup>

## Description

Santon switches are suitable for use in direct current systems, installations for higher frequencies, installations on board of ships, mobile installations, in dusty environments or where switching is very infrequent.

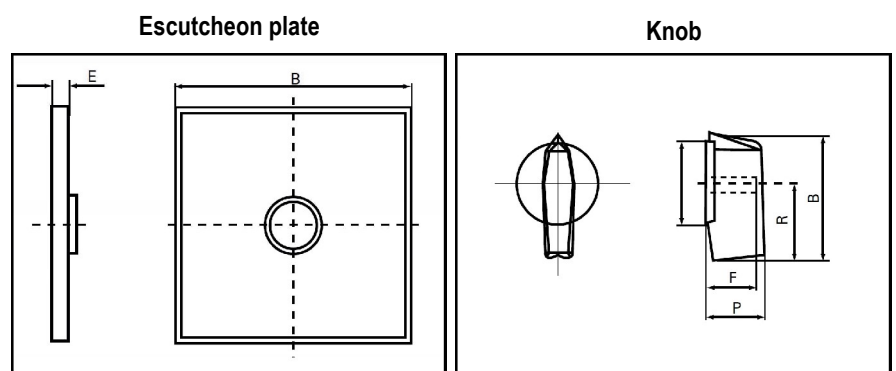
They are suitable not only for use as control switches of multiple circuits, or as meter selecting switches, but also for use in main circuits as on load switches, such as motor switches, for operating machines, heating equipment, welding equipment, ovens, lighting equipment etc.

When used normally, Santon switches are maintenance-free. Switches delivered for panel mounting plates. When securing the handle, do not tighten the screw more than is necessary. Always use 2 spanners for bolt and nut connections so that no pressure is exerted on the plastic discs.

Use properly fitting tools and use the following torques as maximum values: for M4 - 1,4 Nm, for M6 - 5 Nm, for M8 - 20 Nm and for M10 - 40 Nm.

The switches must, both during storage and during use, be protected against dust, dirt, aggressive fumes and liquids. This needs to be checked from time to time and when doing so, switch fixings and terminal connections should also be verified. The frequency will very much depend upon the intensity of use. It is, however, recommended to have switches that are rarely operated, checked once a year, and when doing so, switched several times.

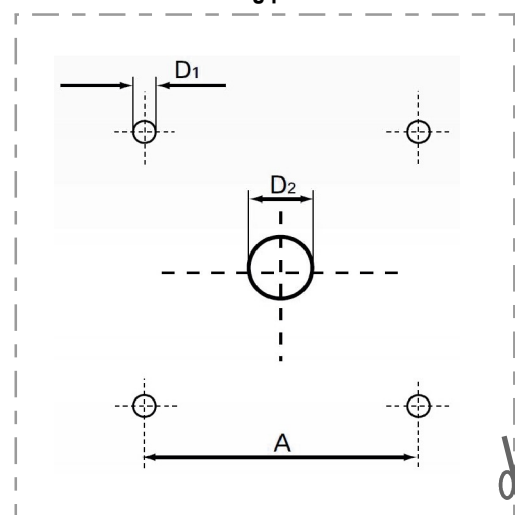
## Dimension & drilling plan



B : 48mm  
E : 7,5mm

P : 19mm  
R : 23,5mm  
B : 39,5mm  
F : 16mm

### Drilling plan 1:1



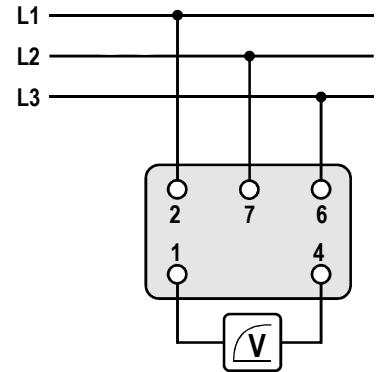
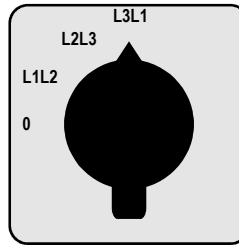
D1: ø 5mm  
D2: ø 10mm  
A : 36mm

**Principle connection**

**F1P-D41 - VOLTMETER SWITCH**

**3 Positions + OFF**

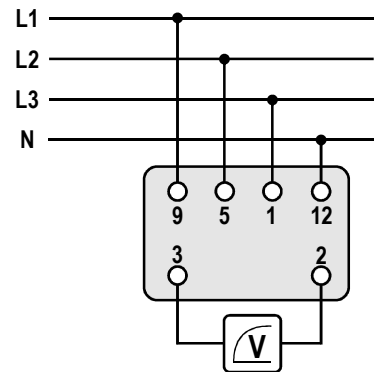
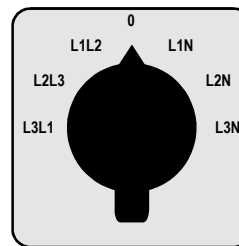
Measurement of 3-phase line voltages.



**F1P-D43 - VOLTMETER SWITCH**

**3+0+3 Positions**

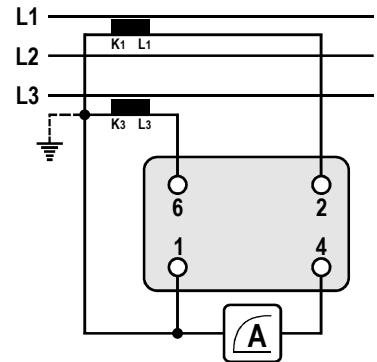
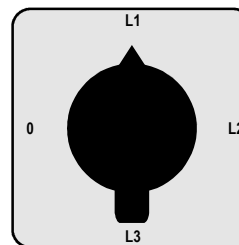
Measurement of 3-phase line voltages and phase voltages, with mid Off-position.



**F1P-D54 - AMPEREMETER SWITCH (2W3 or 2R3)**

**3+0 Positions  
3 Currents  
2 Current Transformers**

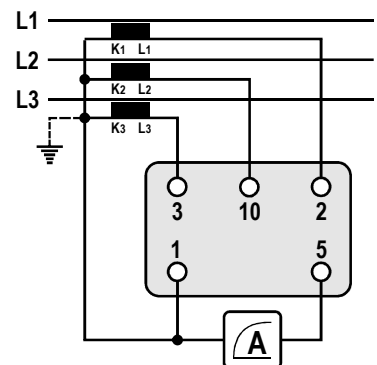
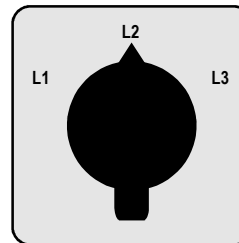
Measurement of line currents in 3-phase / 3-wire system (2W3 and 2R3).



**F1P-T90 - AMPEREMETER SWITCH (3W4 or 3R4)**

**3 Positions  
3 Currents  
3 Current Transformers**

Measurement of line currents in 3-phase / 4-wire system (3W4 and 3R4).



The MEGACON policy is one of continuous improvement, consequently equipment supplied may vary in detail from this publication.

ORDERING EXAMPLE:  
Type: F1P-D41

