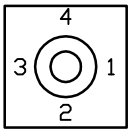
Copyright ©
Copying of this document, third party distribution or use for manufacturing is strictly forbidden without written permission. All rights and know-how contained herein are explicitly reserved by Santon Switchgear Ltd.

Handle position



Terminal marking

		1	2	3	4
1	1 — A		X		X
2	2 — B		X		X
3	3 — C		X		X
4	4 — D		X		X
5	5 — E		X		X
6	6 — F		X		X
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					

Installation – Operation + Maintenance Instructions

General
Santon Packet Switches have been designed for long life and low maintenance. They fully comply to the IEC 947–3 standard on low voltage switchgear. Maximum ratings for electrical loads are stated on the switch. Depending on individual requirements Santon Packet Switches may have a maximum of 4 x 90 or 8 x 45 manually operated positions. Rotating the shaft will change the positions.

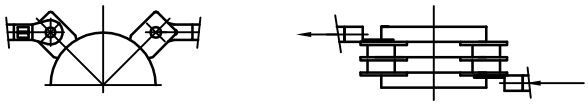
Storage and transport
Switches must be protected against dust, dirt, aggressive fumes and liquids during transportation, storage and use.
Storage temperature –60 C – +85 C

Mounting
Fit the switch with the green frame bolt sleeve right handed (position 1) and the grey left handed, seen from the handle side.
For short switches of less than 12 cells, mounting by either base plate or panel fixing plate is standard. Switches above 12 cells and switches >300A above 7 cells must be mounted on both base and panel fixing plates.
Secure the handle by fixing the screw hand–tight.

Wiring
Terminal markings are laser printed onto the disc adjecent to the relative terminal.
Connect the switch with wire in accordance with the table below:

	16A	25A	40A	63A	100A	200A	300A+
Cross section mm^2	2.5	4	10	16	35	120	120
Screw diameter	M4	M4/M5	M6				
Bolt diameter				M6	M8	M8	M12
Max. screw torque (Nm)	1.5	1.5/2.2	3.0	9.5	23	23	79

Make sure that no pressure is exerted on the plastic disc while tightening the bold / nut connections (63A and above).
Connect switches with parallel terminals accros corners (see figure):



Use, inspection and maintenance
The changing–over between positions should be smooth and integer.
Never supply more than 3x the force needed for normal switch operation: switching positions can be limited.
Terminal connections and switch fixings should be checked at least once a year on mechanical aspects as well as visually for pollution by dust, dirt, aggressive fumes and liquids. If found the polluted switches should be cleaned with a dry cloth.
All switches should be switched at least once a year several times (10x) to clean the contacts.
Usage temperature: –20 C – +85 C
Humidity during use: max. 95%

Warranty
Every Santon Packet Switch is sealed with wax after final inspection. Breaking the wax will invalidate any guarantee.
Santon guarantees the life of the Packet Switch as stated in the standard IEC 947–3–categorie A and/or for a maximum of 12 month after delivery provided that the directions stated above have been observed.

Rating according to IEC 947–3

Main contacts — Pollution Degree (PLDG) 2

Ue	V ~		
Ue 600	V ⎓	Utilization category	DC 21
Ie 25	A		
Ith 25	A		

Auxiliary contacts

Ue	V ~	
Ue	V ⎓	Utilization category
Ie	A	
Ith	A	

Special contact functions are not indicated on this Diagram.

santon
Santon International
Hekendorpstraat 69
3079 DX Rotterdam
Holland
Tel. +31 (0)10 283 26 00
Fax +31 (0)10 429 45 46
tech@santonswitchgear.com
www.santonswitchgear.com

No. BC 1H614/50A0389
d.d. 02 12 2014