

The tolerances for the Santon dat		ording to		ISO 8015, I	SO 2768 1	class ı	n, ur	ıless st	tated	other	wise.
Technical data		Ratings:				1		Ш		III	Unit
Rated operational voltage	Ue					1500		1000		800	V dc
Rated operational current	le					20		50		60	A dc
Required fine wire cross-section (	minimal)*:					4		10		16	mm²
*IEC60947-1, table 9											
Number of DC poles										6	
Pollution degree										2	
Utilization category DC									DO	C-PV1	
ID rating terminal-										IDOO	
IP rating terminals	. M4 (min	- N						1.5		IP20	Nim
Tightening torque terminal screws	5 IVI4 (IIIIII III	iax.)						1,5	_	1,7	Nm
Method of mounting  IP rating of the shaft in case of sin	ale hole mour	nting								IP65	
Tightening torque panel mounting								2,0		2,5	Nm
Panel thickness between	s nut (mm n	iiax.j						2,0	_	4	mm
Positions				12 (OEE) 2	nd 3 o'clos	-k (ON	1	1		4	111111
Actuator			12 (OFF) and 3 o'clock (ON)								
Method of operation				Standard A knob with long screw to fix in shaft Independent manual operation							
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									_		
Rated impulse withstand voltage				Uimp						8	kV
Insulation voltage				Ui						1500	V
Rated thermal current uninterrup	ted duty			lu						60	Α
Rated short-time withstand curre				lcw						700	А
Rated short-circuit making capacit				lcm						1	kA
Rated conditional short-circuit cui	rrent			Isc						5	kA
Minimum required dimensions of						124	х	47	х	102	mm
* see the drawing for the height o	r the switch. 1	ne numb	er of layer	S IN IS:						6	
Weight									ca	. 253	g
Allowed ambient temperature (m				Tambient				-40	-	70	°C
Allowed storage temperature (mi		20° 0		Tstorage				-40	-	85	°C
Relative humidity (max.), without	condensation	n at 20°C		RH						90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color	
JST		AWG 16 – AWG 14	1,0 - 2,5 mm <sup>2</sup>	Blue	
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 - 2,5 mm <sup>2</sup>	Blue	
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm²	Blue	
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm <sup>2</sup>	Yellow	
Vogt	3654c / 3655c	AWG 12 - AWG 10	3,0 - 6,0 mm <sup>2</sup>	Yellow	
Santon (JST)	54A1256.35	AWG 8 - AWG 10	10,5mm <sup>2</sup> -16mm <sup>2</sup> * <sup>1</sup>	*2	

Terminals Scheme									
Layer	Front Side		Symbol	Rear	Positions				
No.	Left	Right	Зуппрог	Left	Right	1	2	3	4
9									
8									
7	-3			-3		1			0
6		+3 -	O-		+3	1			0
5	+2			+2		1			0
4		-2			-2	1			0
3	-1			-1		1			0
2		+1	O-		+1	1			0
1			Empty						

(I = Contact is closed, O = Contact is open)

## Mounting instructions

In the application all ratings according to the datasheet have to be respected. After mounting, the wiring must be checked and the switch must operate smoothly. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards.In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard (IEC/UL).

## 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  $85^{\circ}\text{C}\,$  under full load.
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life. Connection
- The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

## Warning

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

<sup>\*1</sup>  $16\text{mm}^2$  only with fine stranded wire (or two times  $6\text{mm}^2$ )

<sup>\*2</sup> To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3 ....