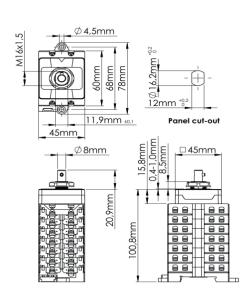
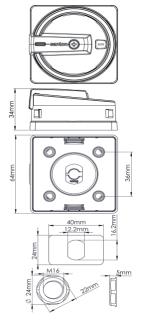
2



Data Sheet XBCH+0610/5









General tolerances on linear dimensions:	For the height of a switch is the tolerance always ± 1%						
Dimensions (mm)	0,5 - 3	> 3 - 6	> 6 - 30	> 30 - 120	> 120 - 400		
Tolerances unless Otherwise mentioned (mm)	± 0,1	± 0,1	± 0,2	± 0,3	± 0,5		
The telegraphon for the Santon datasheet are according to ISO 1101, ISO 2015, ISO 2769, 1 class multiple stated etherwise							

Technical data	Symbol F	latings:		1	H II	101	Unit	
Rated operational voltage	Ue			1500	1000	800	V do	
Rated operational current	le			20	50	60	A do	
Required fine wire cross-section	n (minimal):			4	10	16	mm²	
*IEC60947-1, table 9								
Number of DC poles						6		
Pollution degree						2		
Utilization category DC					С	C-PV1		
IP rating terminals						IP20		
Tightening torque terminal scr	ews M4 (min m	ax.)			1,5 -	- 1,7	Nm	
Method of mounting								
IP rating of the shaft in case of	single hole mour	iting				IP65		
Tightening torque panel moun	ting nut (min m	ax.)			2,0 -	- 2,5	Nm	
Panel thickness between					1 -	- 4	mm	
Positions			12 (OFF) and 3	3 o'clock (ON))			
Actuator	knob with pad	llock and top	ck and top screw, black/grey [G],					
Method of operation	Independent r	ndent manual operation						
Rated impulse withstand volta	ge		Uimp			8	kV	
Insulation voltage			Ui			1500	V	
Rated thermal current uninter	rupted duty		lu			60	Α	
Rated short-time withstand cu	rrent (1s)		Icw			700	Α	
Rated short-circuit making cap	acity		Icm			1	kA	
Rated conditional short-circuit	current		Isc			5	kA	
Minimum required dimensions	of enclosures L	W x D* {spa	ce envelope}		124 x 47	x 102	mm	
* see the drawing for the heigh	nt of the switch. T	he number o	f layers N is:			6		
Weight					C	a. 253	g	
Allowed ambient temperature	(min max.)		Tambient		-4	0 – 70	°C	
Allowed storage temperature	min max.)		T _{storage}		-4	0 – 85	°C	
Relative humidity (max.), with	out condensation	at 20°C	RH			90	%	

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST	FVD2-YS4A	AWG 16 – AWG 14	1,0 – 2,5 mm²	Blue
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 – 2,5 mm²	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 mm²	Yellow
Vogt	3652c / 3653c	AWG 12 - AWG 10	3,0 - 6,0 mm²	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			
No.	Left	Right	Зуппоот	Left	Right	1	2	3	4
9									
8									
7	-3		<u></u>	3		1			0
6		+3	<u></u>	-	+3	1			0
5	+2		<u> </u>	+2		1			0
4		-2			-2	1			0
3	-1		<u></u>	-1		1			0
2		+1	<u></u>		+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*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)

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.

note: subject to change without any notice, JDA pay no responsibility

^{*1 16}mm² only with fine stranded wire (or two times 6mm²)

^{*2} To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3....