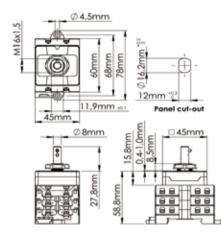
XBCH+0210/2

4 0









General tolerances on linear dimensions:		For the height of a switch is the tolerance always \pm 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 tolerances for the Santon datasheet are according	to ISO 1101, ISO 8015, I	SO 2768 1 class m, ur	less stated otherwis	e.			2
Technical data Symbol Ratin	as:			Unit	Ter	minals Scheme	

l echnical data	Symbol Ratings:				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				2	
Pollution degree				2	
Utilization category DC				DC-PV1	
IP rating terminals				IP20	
Tightening torque terminal screws	s M4 (min max.)		1,5 -	- 1,7	Nm
Method of mounting					
IP rating of the shaft in case of sin	gle hole mounting			IP65	
Tightoning torque papel mounting	anut (min max)		2.0	2 5	Mm

			Terminals	Sche		2				
Layer							Positions			
		Right	Symbol	Left	Right	1	2	3	4	
9										
8										
7										
6										
5										
4										
3	-1	-		-1		1			0	
2		+1			+1	Т			0	
1			Empty							
	(1 =	- Contact	is closed, O	= Cont	act is op	en)				

osed, O = (1

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)

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.

*1 16mm² 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

ID ro	iting terminals						IP20	
	tening torque terminal screws M	4 (min may)			1 5		1.7	Nm
	hod of mounting	4 (mm max.)			1,5	-	1,7	INITI
	iting of the shaft in case of single	hole mounting					IP65	
	tening torque panel mounting nu				2,0	-	2,5	Nm
-	el thickness between				2,0	_	,	mm
	tions		12 (OFF) and 3	o'clock (ON)	-		-	
	lator		Standard A kno		crew to fi	ix in 🤇	shaft	
	hod of operation		Independent m	0			Jindite	
						-		
Rate	ed impulse withstand voltage		Uimp				8	kV
Insu	lation voltage		Ui				1500	V
Rate	ed thermal current uninterrupted	duty	lu				60	А
Rate	ed short-time withstand current (1s)	lcw				700	Α
Rate	ed short-circuit making capacity		lcm				1	kA
Rate	ed conditional short-circuit currer	nt	lsc				5	kA
	imum required dimensions of en-			124	x 47	х	60	mm
	e the drawing for the height of th	ne switch. The numbe	er of layers N is:				2	
Wei	0					Ca	a. 143	g
	wed ambient temperature (min.	,	Tambient		-40	-	70	°C
	wed storage temperature (min	'	Tstorage		-40	-	85	°C
Rela	tive humidity (max.), without co	ndensation at 20°C	RH				90	%
	Recommend Manufacturer	Type number	Wire size (AWG)		ize (mm	²)	Col	÷.
	JST		AWG 16 – AWG 14		2,5 mm²		Blue	-
	TE connectivity	C-165012	AWG 16 – AWG 14	1,0 - 1	2,5 mm²		Blue	e

Recommenta Manufacturer	i ype number	WITE SIZE (AWG)	while size (min)	00101
JST		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	3654c / 3655c	AWG 12 - AWG 10	3,0 - 6,0 mm ²	Yellow
Santon (JST)	54A1256.35	AWG 8 - AWG 10	10,5mm ² -16mm ² * ¹	*2