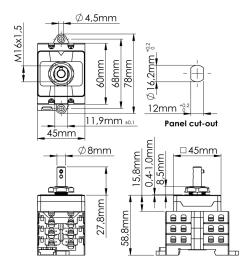
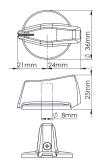
## **Data Sheet**

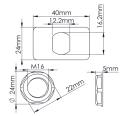
# XBHP+0210/2

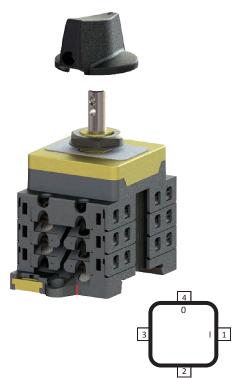
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## HIIIIII santon







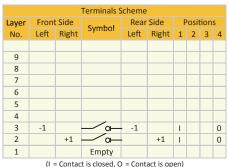


The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise.

Technical data	Symbol	Ratings:		1	Ш	ш		IV	Unit
Rated operational voltage	Ue		1	200	1000	800		600	V dc
Rated operational current	le			20	30	40		50	A dc
Power dissipation (max)					0,0	0,0		0,0	
Required fine wire cross-section (m	inimal)*:			4	6	10		10	mm²
*IEC60947-1, table 9									
Number of DC poles								2	
Utilization category DC							DC-	PV1	
Pollution degree								2	
IP rating terminals								P20	
Tightening torque terminal screws	M4 (min I	max.)				1,5	-	1,7	Nm
Method of mounting									
-	- Is a la second							DCE	
IP rating of the shaft in case of sing		-						P65	
Tightening torque panel mounting	nut (min	max.)				2,0	-	2,5	Nm
Panel thickness between				1.0.1		1	-	4	mm
Positions			12 (OFF) a		. ,				
Actuator					with long so		ix in s	haft	
Method of operation			Independe	ent mai	nual operati	on			
Actuator operation force (max.)								1,4	Nm
Tightening torque M3 screw in the	actuator (m	nin max.)				0,50	-	0,70	Nm
Rated impulse withstand voltage			Uimp					8	kV
Insulation voltage			Ui				1	200	V
Rated thermal current uninterrupte	d duty		lu					50	A
Rated short-time withstand current	,							700	A
			lcw						
Rated short-circuit making capacity			lcm					1	kA
Rated conditional short-circuit curr	ent		lsc					5	kA

Minimum required dimensions of enclosures L x W x D* {space	e envelope}	124	x 47	х	50	mm
* see the drawing for the height of the switch. The number of	layers N is:				2	
Weight				са	. 149	g
Allowed ambient temperature (min max.)	Tambient		-40	-	70	°C
Allowed storage temperature (min max.)	Tstorage		-40	-	85	°C
Relative humidity (max.), without condensation at 20°C	RH				90	%

JST     FVD2-YS4A     AWG 16 - AWG 14     1,0 - 2,5       TE connectivity     C-165012     AWG 16 - AWG 14     1,0 - 2,5       Vogt     3635c     AWG 16 - AWG 14     1,5 - 2,5       TE connectivity     C-165015     AWG 12 - AWG 10     3,0 - 6,0       Vogt     3652c / 3653c     AWG 12 - AWG 10     3,0 - 6,0	nm²) Color
Vogt     3635c     AWG 16 - AWG 14     1,5 - 2,5       TE connectivity     C-165015     AWG 12 - AWG 10     3,0 - 6,0	nm² Blue
TE connectivity C-165015 AWG 12 - AWG 10 3,0 - 6,0 r	nm² Blue
, , , , , , , , , , , , , , , , , , , ,	nm² Blue
Vert 2002 / 2002 AVAC 12 AVAC 10 2.0 C.0	nm² Yellow
Vogt 3652c / 3653c AWG 12 - AWG 10 3,0 - 6,0 r	nm² Yellow
Santon (JST) 52A1256.35 AWG 8 - AWG 10 10,5mm <sup>2</sup> -16	nm <sup>2 *1</sup> *2



#### 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.

#### 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 85oC 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

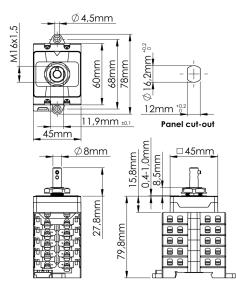
The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

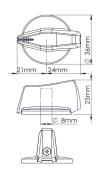
 \*1 16mm<sup>2</sup> only with fine stranded wire (or two times 6mm<sup>2</sup>)
\*<sup>2</sup> Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

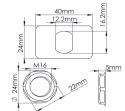
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						2				
Terminals Scheme										
Layer	Fron	t Side	Symbol	Rear	Side	F	Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4	
9										
8										
7										
6										
5	+2		_~~	+2		Т			0	
4		-2			-2	Т			0	
3	-1		<u> </u>	-1		Т			0	
2		+1			+1	Т			0	
1			Empty							
	(1 :	- Contac	t is closed. C	= Cont	act is on	en)				

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.

### 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 85oC 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)

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

\*2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00

The tolerances for the Santon datasheet are according to ISO 1101, ISO 8015, ISO 2768 1 class m, unless stated otherwise. Technical data Symbol Ratings Unit Rated operational voltage 1200 1000 800 600 V dc Ue

Rated operational current le	20	30	40		50	A dc	
Power dissipation (max)		0,0	0,0		0,0		
Required fine wire cross-section (minimal)*:	4	6	10		10	mm²	
*IEC60947-1, table 9							
Number of DC poles					4		
Utilization category DC				DC	-PV1		
Pollution degree					2		
IP rating terminals					IP20		
Tightening torque terminal screws M4 (min max.)			1,5	-	1,7	Nm	
Method of mounting							
IP rating of the shaft in case of single hole mounting					IP65		
Tightening torque panel mounting nut (min max.)			2,0	-	2,5	Nm	1
Panel thickness between			1	-	4	mm	
Positions	12 (OFF) and 3 o'cl	ock (ON)					
Actuator	Standard A knob w	ith long so	crew to fi	x in s	shaft		1
Method of operation	Independent manu						
Actuator operation force (max.)					1,4	Nm	
Tightening torque M3 screw in the actuator (min max.)			0,50	-	0,70	Nm	
Rated impulse withstand voltage	Uimp				8	kV	
Insulation voltage	Ui				1200	V	
Rated thermal current uninterrupted duty	lu				50	A	
Rated thermal current uninterrupted duty	lcw				700	A	
Rated short-circuit making capacity	Icm			_	1	kA	
Rated conditional short-circuit current	lsc				5	kA	

Minimum required dimensions of enclosures L x W x D* {space envelope}				47	х	71	mm
* see the drawing for the height of the switch. The number of					4		
Weight					са	. 211	g
Allowed ambient temperature (min max.)	Tambient			-40	-	70	°C
Allowed storage temperature (min max.)	Tstorage			-40	-	85	°C
Relative humidity (max.), without condensation at 20°C	RH					90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm <sup>2</sup> )	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	10,5mm <sup>2</sup> -16mm <sup>2</sup> * <sup>1</sup>	*2