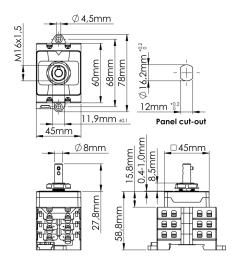


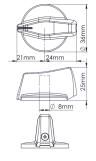
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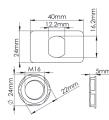
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Data Sheet XBHP+0210/2









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

The tolerances for the santon	ualasneet are a	according to	150 1101, 150 8015, 150 27	DO I CIASS II	i, uniess s	stated oth	ierwise.
Technical data	Symbol	Ratings:	1	11	Ш	IV	Unit
Rated operational voltage	Ue		1200	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	on (minimal)*:		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						IP20	
Tightening torque terminal scr	rews M4 (min	- max.)			1,5	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of	single hole mo	ounting				IP65	
Tightening torque panel moun	nting nut (min. ·	- max.)			2,0	- 2,5	Nm
Panel thickness between					1	- 4	mm
Positions			12 (OFF) and 3 o	clock (ON)			
Actuator			Standard A knol	with long	screw to	fix in shaft	t
Method of operation Independent manual opera							
Actuator operation force (max			1,4	Nm			
Tightening torque M3 screw in	n the actuator (min max.)			0,50	- 0,70	Nm
Rated impulse withstand volta	ige		Uimp			8	kV
Insulation voltage			Ui			1200	V
Rated thermal current uninter	rupted duty		lu			50	А
Rated short-time withstand cu	ırrent (1s)		Icw			700	А
Rated short-circuit making cap	bacity		Icm			1	kA
Rated conditional short-circuit	current		Isc			5	kA
Minimum required dimensions of enclosures L x W x D* {space envelope}				124 x	47 x 50	mm	
* see the drawing for the height of the switch. The number of layers N is:						2	
Weight						ca. 149	g
Allowed ambient temperature	e (min max.)		Tambient			-40 – 70	°C
Allowed storage temperature	(min max.)		T _{storage}			-40 – 85	°C
Relative humidity (max.), with	out condensati	on at 20°C	RH			90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm ²)	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 ² -16mm ² *1	*2

Terminals Scheme									
Layer	Fron	t Side	Symbol	Rear Side		Positions			s
No.	Left	Right	Symbol	Left	Right	1	2	3	4
9									
8									
7									
6									
5									
4			_						
3	-1	-		· -1		Т			0
2		+1 -			+1	Т			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.

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)

*1 16mm² only with fine stranded wire (or two times 6mm²) *² 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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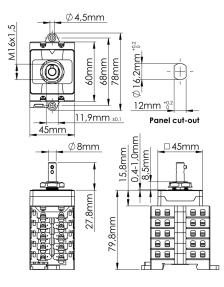


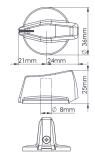
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Data Sheet XBHP+0410/2









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The tolerances for the santon	ualasheet are	according to	130 1101, 130 8013, 130 27	DO I CIASS I	n, uniess si	lateu otn	erwise.
Technical data	Symbol	Ratings:	1	П		IV	Unit
Rated operational voltage	Ue		1200	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	on (minimal)*:		4	6	10	10	mm²
*IEC60947-1, table 9							
Number of DC poles						4	
Utilization category DC					I	DC-PV1	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal scr	ews M4 (min.	- max.)			1,5	- 1,7	Nm
Method of mounting							
IP rating of the shaft in case of	single hole mo	ounting				IP65	
Tightening torque panel mour	iting nut (min.	- max.)			2,0	- 2,5	Nm
Panel thickness between					1	- 4	mm
Positions)						
Actuator			Standard A kno	b with long	screw to fi	ix in shaft	t
Method of operation			Independent m	anual opera	ation		
Actuator operation force (max	:.)					1,4	Nm
Tightening torque M3 screw in	n the actuator (min max.)			0,50 -	- 0,70	Nm
Rated impulse withstand volta	ige		Uimp			8	kV
Insulation voltage			Ui			1200	V
Rated thermal current uninter	rupted duty		lu			50	А
Rated short-time withstand cu	irrent (1s)		Icw			700	Α
Rated short-circuit making cap	,		Icm			1	kA
Rated conditional short-circuit	current		Isc			5	kA
Minimum required dimensions of enclosures L x W x D* {space envelope}						47 x 71	mm
* see the drawing for the height of the switch. The number of layers N is:						4	
Weight						ca. 211	g
Allowed ambient temperature	(min max.)		Tambient		-	40 – 70	°C
Allowed storage temperature	. ,		T _{storage}			40 – 85	°C
Relative humidity (max.), with	out condensati	ion at 20°C	RH			90	%

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm ²)	Color
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Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm ² -16mm ² *1	*2

Terminals Scheme									
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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			· -1		Т			0
2		+1			+1	Т			0
1			Empty						
(I = Contact is closed, O = Contact is open)									

Mounting instructions

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