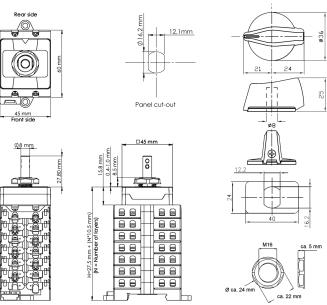
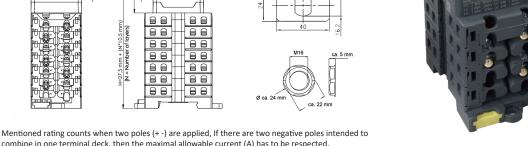


## Data Sheet XB0310/2

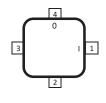




combine in one terminal deck, then the maximal allowable current (A) has to be respected. This means the maximal allowable current has to be split by 2 (with 2 poles combined).

Technical data	Symbol	Ratings:	1	11	III	IV	V	Unit
Rated operational voltage	Ue		1000	850	800	650	400	V dc
Rated operational current	le		16	20	25	30	45	A dc
Required fine wire cross-section	n (minimal)*:		2,5	4,0	4,0	6,0	10,0	mm²
*IEC60947-1, table 9								
Number of DC poles							3	
Utilization category DC							DC-21B	
Pollution degree							2	
IP rating terminals							IP20	
Tightening torque terminal screen	ews M4 (min	max.)				1,5	- 1,7	Nm
Method of mounting								
IP rating of the shaft in case of single hole and four hole panel mounting IP65								
Positions 12 (OFF) and 3 o'clock (O						•		
Actuator Standard A R							ix in shaft	:
Method of operation			Indep	endent ma	inual opera	ation		
Actuator operation force (max.							1,4	Nm
Tightening torque M3 screw in		min max.)				0,2	- 0,4	Nm
Rated impulse withstand voltage	ge		Uimp				8	kV
Insulation voltage			Ui				850	V
Rated thermal current uninterr			lu				45	Α
Rated short-time withstand cur	. ,		Icw				700	Α
Rated short-circuit making capa			Icm				1,4	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 60							47 x 60	mm
* see the drawing for the heigh	t of the switch	n. The numbe	r of layers N is:				3	
Weight							ca. 180	g
Allowed ambient temperature	(min max.)		Tambier	nt		-	40 – 70	°C
Allowed storage temperature (	min max.)		T <sub>storage</sub>	2		-	40 – 85	°C
Relative humidity (max.), without	ut condensati	on 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	Front Side		Complete	Rear Side		Positions					
No.	Left	Right	Symbol	Left	Right	1	2	3	4		
7											
6											
5											
4		+2			+2	1			0		
3	-			-		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.

## 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
- 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)

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

<sup>\*1 16</sup>mm² only with fine stranded wire (or two times 6mm²)

<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