



Technical data	Symbol Ratings:					1	Unit
Rated operational voltage	Ue					600	V dc
Rated operational current	le					36	A dc
Required fine wire cross-section	(minimal):					8	AWG
Number of DC poles Pollution degree						6	
Utilization category DC			Photovolta	.:. 4:			
IP rating terminals						IP20	
Tightening torque terminal screv	vs M4 (min max.)			1,	5 –	1,7	Nm
Method of mounting						IDCE	
IP rating of the shaft in case of s				2	^	IP65	Nm
Tightening torque panel mounti Panel thickness between	ng nut (min max.)			2,		- 2,5	
Positions		12 (055) 4 2	-!-!!- (ON!)		1 .	- 4	mm
Actuator		12 (OFF) and 3 o'clock (ON)					
Method of operation							
Rated impulse withstand voltage		Uimp			-	8	kV
nsulation voltage		Ui				600	V V
Rated thermal current uninterru	nted duty	lu				36	A
Rated short-time withstand curr		lcw				700	A
Rated short-circuit making capa		Icm				1	kA
Rated conditional short-circuit c	,	Isc				5	kA
Suitable for use on a circuit capt							
Minimum required dimensions of			124	x 47	×	102	mm
* see the drawing for the height	of the switch. The number of la	ayers N is:				6	
Weight						ca. 253	g
Allowed ambient temperature (nin max.)	Tambient		-4	0 –	70	°C
Allowed storage temperature (n	nin max.)	Tstorage		-4	0 –	85	°C
Relative humidity (max.), witho		RH					%

Use 75°C wires,min. 10AWG, torque 20.4 Lb-in (1,7 Nm)						
Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color		
JST		AWG 16 – AWG 14	1,0 - 2,5 mm ²	Blue		
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 - 2,5 mm ²	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 mm ²	Yellow		
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm ² -16mm ² * ¹	*2		

Superior	Switch	Solutio	ns
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	Terminals Scheme								
Layer	Front Side		Symbol	Rear Side		Positions			S
No.	Left	Right	Зуппоот	Left	Right	1	2	3	4
9									
8									
7	-3			-3		1			0
6		+3 -			+3	1			0
5	+2			+2		1			0
4		-2			-2	1			0
3	-1			-1		1			0
2		+1			+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)

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