

DATA SHEET

ITEM NO. 10012235

Santon Load Disconnecter "Fireman's Switch"

Santon-1000-4x2R-T50-BC-PES-V4

All values in [mm]

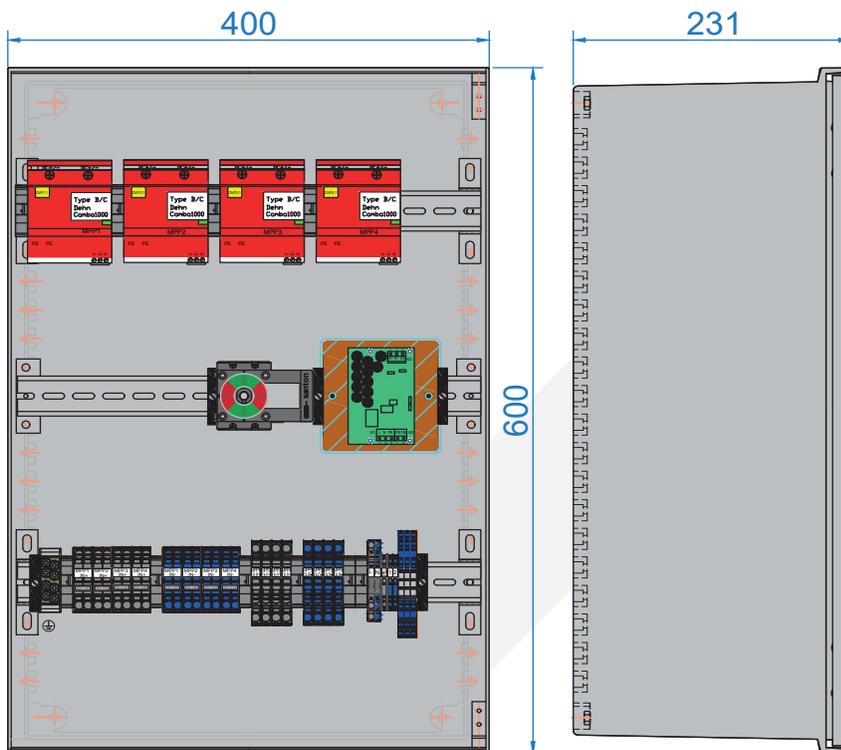
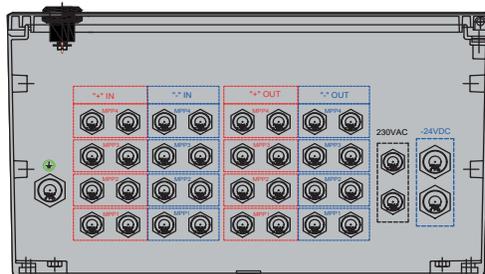
Dimensions "blue"

Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	800



SCOPE OF DELIVERY

Quantity	Designation
1	Santon Load disconnecter "Fireman's switch"
1	General installation instructions PV-RSS
1	Installation instructions GAK-Standard
1	enwitec EWS concept with Santon
1	Circuit diagram
1	Schematic UPS board
1 set	Wall mounting brackets

Quantity	Designation
36	Cable gland M16
3	Cable gland M20 incl. locknut
34	Lock nut M16
2	Reduction M20/M16
1	Diaphragm insert EMT 16
2	Diaphragm insertion EMT 20

Status: (a)

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TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U_i	[VDC]	1000
Rated operating voltage U_e	[VDC]	1000
Rated current I_{nA} (ΣI_{SCSTC})	[ACD]	128
Rated current* I_{nA} ($=\Sigma I_{SCSTC} \times 1.25$)	[ACD]	160
Number of independent MPP inputs		4
Max. Number of PV strings IN/OUT		8/8
Parallel connected inputs/outputs		2

PRO STRANG		
Rated current I_{nc} ($=I_{SCSTC}$)	[ADC]	16
Design current* I_{SCMAX} ($=I_{SCSTC} \times 1.25$)	[ADC]	20

SURGE PROTECTION DEVICE		
Test class according to EN 61643-11 (type)		I+II
Highest permissible continuous voltage U_{cpv}	[VDC]	1000
For type 1: Lightning impulse current max. I_{imp} 10/350	[nA]	5

SWITCH-DISCONNECTOR		
Thermal current I_{th} at 60°C	[A]	50/MPP
Utilisation category according to DIN EN 60947-3		DC-21B
Manufacturer and type designation		Santon XC100.50..Q3A/8pole with undervoltage release 230 VAC and automatic Restart function after power failure

* the design current I_{SCMAX} according to VDE 0100-712:2016-10 includes the factor 1.25 for ISC STC of the PV module or PV string.

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INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M16
Clamping range (from - to)	[Ømm]	16 x 5 - 10
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,5 - 6
Fine-stranded copper	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

OUTPUT (TO THE PV INVERTER)		
Cable entries		
Fittings (EN 62444)		M16
Clamping range (from - to)	[Ømm]	16 x 5 - 10
Connections		
Connection type		Spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,5 - 6
Fine-stranded copper	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

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EARTH CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	6 - 13
Connections		
Connection type		Screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	1,5 - 16
Fine-stranded copper	[mm²]	-
Solid or stranded copper wire	[mm²]	2,5 - 25

COMMUNICATION AND MONITORING		
Interface available		•
Interface type		Undervoltage release and feedback loop
Cable entries		
Fittings (EN 62444)		M16/M20
Clamping range (from - to)	[Ømm]	2 x 5 - 10 2 x 7 - 13
Connections		
Connection type		Spring clamp
Stripping length	[mm]	10 - 12
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Fine copper wire with ferrule	[mm²]	0,25 - 2,5
Fine-stranded copper	[mm²]	0,25 - 4
Cu-stranded	[mm²]	0,25 - 4

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GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections)	[mm]	400 x 600 x 230
Weight, approx.	[kg]	13
Operating temperature range	[°C]	-20...+40
Temperature - transport/storage (24 hours 70°C)	[°C]	-20...+50
Humidity - condensing permitted		-
Humidity - permissible range	[%]	5...95
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529) _{ta = 40°C}		65
Outdoor suitability (protected area)		-
Protection class (EN 61140)		II
Housing material		Polyester
RoHS-compliant (2011/65/EU)		-
Housing colour		similar to RAL 7035
Lid		Hinged door
Mounting type		Wall mounting
Closure type		Double-bit closure
OTHER		
Customs tariff number		85371098

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