

DATA SHEET

ITEM NO. 10019159

Santon Load Disconnecter „Fireman's Switch“

Santon-1000-12x2R-T50-BC-PES-1.0

All values in [mm]

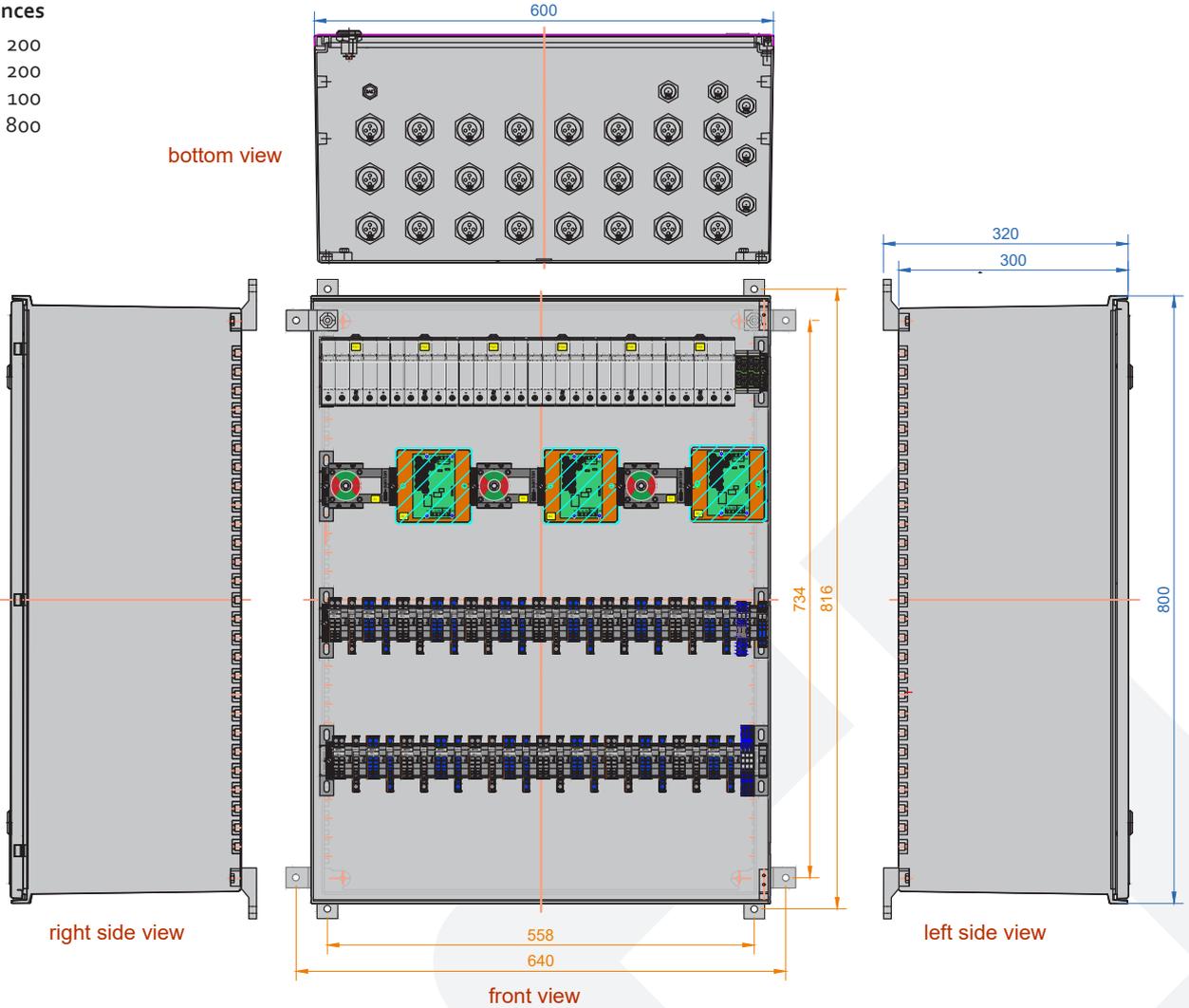
Dimensions „blue“

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	Quick guide to commissioning the EWS
1	enwitec EWS concept with Santon
1	Circuit diagram power section
1	Circuit diagram control unit

Quantity	Designation
1 set	Wall mounting brackets
24	Multiple seal M32
5	Cable gland M20 incl. locknut
24	Cable gland M32 incl. locknut
1	pressure equalisation element M12 incl. locknut
3	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 $I_{nA} (\sum I_{SCSTC})$	[ACD]	384
Rated current* $I_{nA} (= \sum I_{SCSTC} \times 1,25)$	[ACD]	480
Number of independent MPP inputs		12
Max. Number of PV strings IN/OUT		24/24
Parallel connected inputs/outputs		2

PER STRING		
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. $I_{imp} 10/350$	[kA]	5

* 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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TECHNICAL DATA

INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M32 + MFD
Clamping range (from - to)	[Ømm]	4 × 5 - 7
Connections		
Connection type		spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu-fine copper wire with ferrule	[mm²]	0,5 - 6
Cu-fine copper wire	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

OUTPUT (TO THE PV INVERTER)		
Cable entries		
Fittings (EN 62444)		M32 + MFD
Clamping range (from - to)	[Ømm]	4 × 5 - 7
Connections		
Connection type		spring clamp
Stripping length	[mm]	13 - 15
Tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu-fine copper wire with ferrule	[mm²]	0,5 - 6
Cu-fine copper wire	[mm²]	0,5 - 10
Cu-stranded	[mm²]	0,5 - 10

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TECNICAL DATA

EARTH CONNECTION		• applicable / - not applicable
Cable entries		
Fittings (EN 62444)		M20
Clamping range (from - to)	[Ømm]	7 - 13
Connections		
Connection type		screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Cu-fine copper wire with ferrule	[mm²]	1,5 - 16
Cu-fine copper wire	[mm²]	-
Cu-stranded	[mm²]	2,5 - 25

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

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 XC150.20..Q3A/4pole with undervoltage release 230 VAC and automatic restart function after power failure

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GENERAL		• applicable / - not applicable
Dimensions WxHxD (without screw connections) [mm]	[mm]	600 x 800 x 300
Weight, approx.	[kg]	15,2
Operating temperature range	[°C]	-25...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+35
Humidity - condensing permitted		•
Humidity - permissible range	[%]	5...95
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529)		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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