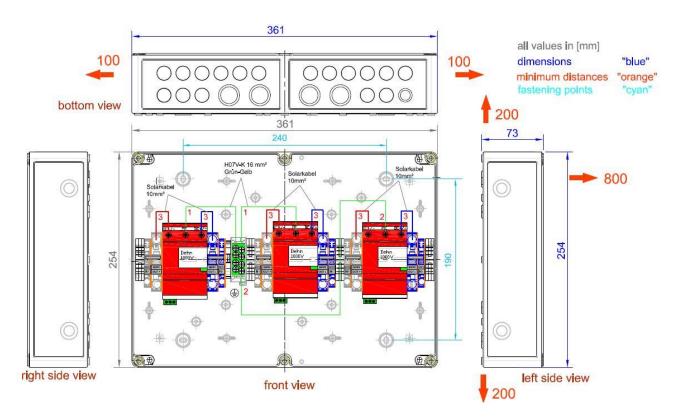
DATA SHEET

DC - generator junction box



enwitec-order-number	10014959
Customer-article-number	
Type designation	GAK-enwitec-S-1000-3x2R-X-Y-PC-1.0



Scope of delivery						
Description	Order-nr.	Pcs	Comment			
general installation instructions for GJB	10011928	1				
Cable Gland M20x1.5	10000737	1				
Locknut M20x1.5	10000722	1				
Cable Gland M16x1.5	10000736	18				
Locknut M16x1.5	10000721	18				
Pressure compensation element	10001971	1				
Locknut M12x1.5	10001476	1				

DATA SHEET

DC - generator junction box



TECHNICAL DATA

• applicable / - not applicable

	• • • • • • • • • • • • • • • • • • • •			Wire cross-section (from-to)		
Rated insulation voltage U _i	[VDC]	1000		Cu - finely stranded with end sleeve	[mm²]	From 2.5
Number of isolated MPP-input(s)	[n]		3	Cu - finely stranded without end sleeve	e [mm²]	0.525
Rated operating voltage U _e	[VDC]	10	000	Cu - solid or stranded	[mm ²]	0.516
Rated operating current I_{nA} (= $\sum I_{SC STC}$)	[ADC]	24		Alu - round, solid	[mm ²]	-
Dimensioning value* $I_{SC MAX}$ (= $\sum I_{SC STC} \times 1,25$)	[ADC]	30		Alu - round, stranded	[mm ²]	-
Max. number of PV-strings	[n]		2	Alu - sector, solid	[mm ²]	-
<u>Per string</u>				Alu - sector, stranded	[mm ²]	-
Rated operating current I _{nc} (=I _{SC STC})	[ADC]	12		Connection to ground		
Dimensioning value* I _{SC MAX} (=I _{SC STC} x 1,25)	[ADC]	15		Cable entry		
Fuse in the "+" potential	•/-	_		Cable glands (EN 50262)	•/-	• 1x M20
Fuse in the "-" potential	•/-	-		Clamping range	[Ømm]	6-13
Fuse inserted at factory setting	•/-		-	Terminals	[5]	0 13
Rated current value at factory setting	[A]	-		Screw terminal/spring clamp		Screw
Surge protective device (SPD)				Insulation stripping length	[mm]	19
test category acc.EN 61643-1	L1 (type)		2	Tightening torque	[Nm]	2.5
max. continuous operating voltage U_{cov}	[VDC]		000	Appropriate conductor material	Al/Cu	Cu
only type 1: impulse current max. I _{imp} 10/3		-		Wire cross section	7 Cu	- Cu
•	JO [KA]			Cu-finely stranded with end sleeve	[mm ²]	Max. 16
Input (for PV-generator)				Cu-finely stranded without end sleev	-	-
Cable entry				Cu-solid or stranded	[mm ²]	Max. 16
Cable glands (EN 50262)	•/-		xM16	Alu - round, solid	[mm ²]	-
Clamping range	[Ømm]	4.5-10		Alu - round, stranded	[mm ²]	-
PV-connectors	•/-	-		Alu - sector, solid	[mm ²]	-
PV-connectors - manufacturer/type-designation		-		Alu - sector, stranded	[mm ²]	-
Terminals				GENERAL DATA	. ,	
"+" potential / "-" potential		+PLUS	-MINUS	Dimension (WxHxD)	[mm]	361x254x111
Screw terminal/spring clamp		Spring	Spring	Weight	[kg]	Approx. 5
Insulation stripping length	[mm]	13-15	13-15	Operating temperature range	[°C]	-25°C - + 35
Tightening torque	[Nm]	-	-	Derating above temperature	[°C]	-23 C - 1 33
Wire cross-section (from-to)	r 21			Transport and storage temperature	[°C]	-25°C - + 35
Cu - finely stranded with end sleeve	[mm²]	From 1.5	From 1.5			
Cu - finely stranded without end sleeve	[mm ²]	0.5-10	0.5-10	Humidity - condensing permitted	•/-	•
Cu- solid or stranded	[mm ²]	1-10	1-10	Humidity within the range of	[%]	595
Output (for PV-inverter)				Max. altitude above sea level NN	[m]	2000
Cable entry	,			· ·	N 60529)	65
Cable glands (EN 50262)	•/-		M16	Outdoor-application permitted	•/-	-
Clamping range	[Ømm]	4.5-10		Protection against electric shock (EN	l 61140)	II
PV-connectors	•/-	-		Cabinet material		PC Polycarbonate
PV-connectors - manufacturer/type-designat	tion		-	RoHS-conformity (2011/65/EU)	•/-	• •
Terminals				Colour of cabinet	-/-	similar to
Screw terminal/spring clamp		Spring		Colour of capillet		RAL7035
Snsulation stripping length	[mm]	18	-20	Way of mounting		wall mounting
Tightening torque	[Nm]		-	Quantity of expanded clay	[1]	· ·
ppropriate conductor material AI/Cu Cu		(only ground mounting)		-		
				Locking system		Screw lock

the dimensioning value $I_{\text{SC\,MAX}},$ acc. to VDE 0100-712:2016-10, implies the factor 1,25 for $I_{\text{SC\,STC}}$ of the PV module, or of the PV string.

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Relevant standards						
Switching devices	EN 61439-1 EN 61439-2					
PV power supply systems	DIN IEC 60364-7- 712					
<u>Miscellaneous</u>						
Customs tariff number	85371098					
Spare parts	Order-nr.					