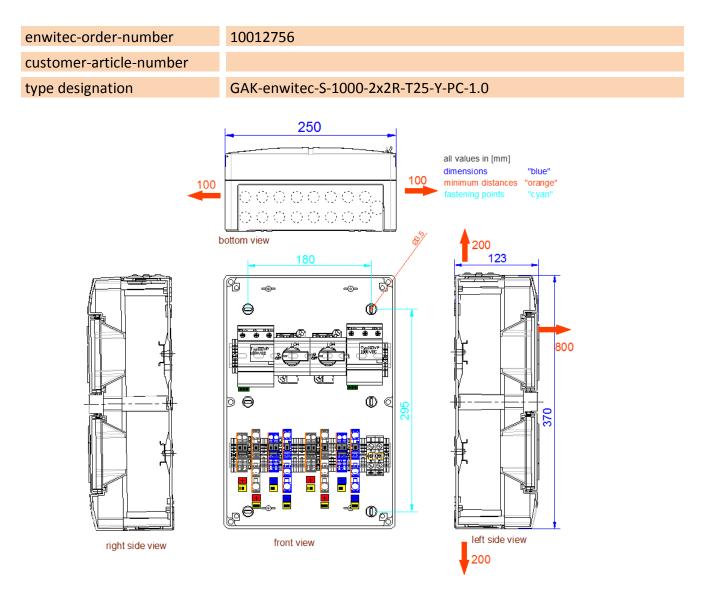
Data sheet Rev1.1 DC - generator junction box





scope of delivery			
description	order-nr.	pcs	comment
Cable Gland M20x1.5	10000737	1	
Locknut M20x1.5	10000722	1	
Cable Gland M16x1.5	10000736	12	
Locknut M16x1.5	10000721	12	
Pressure compensation element	10001971	1	
Locknut M12x1.5	10001476	1	

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File: 19_05_16_Data sheet_10012756_EN_V1.0

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Data sheet Rev1.1 DC - generator junction box



technical specification

rated insulation voltage U _i	[VDC]		1000	C		
number of isolated MPP-input(s)	[1 = 0] [n]	1	2	3		
rated operating voltage U _e	[VDC]	1000	1000	-		
rated operating current I _{nA}	[ADC]	20	20			
max. number of PV-strings	[n]	2	2			
rated operating current per string Inc	[ADC]	10	10			
string fuse in the "+" potential	•/-	-	-			
string fuse in the "-" potential	•/-	-	-			
fuse is inserted at factory setting	•/-	-	-			
rated current value at factory setting	[A]	-	-			
load circuit breaker						
thermal current I _{th} at 60°C	[A]	25				
utilization category acc. DIN EN	60947-3	DC-21B				
manufacturer and type designation MERZ MDC1A-040						
surge protective device (SPD)						
test category acc. EN 61643-11 (type)		2				
max. continuous operating voltage U_{cpv}	[VDC]		1000)		
only type 1: impulse current max. I _{imp} 10	/350 [kA]		-			
input (for pv-generator)						
cable entry						
cable glands (EN 50262)	•/-	•				
clamping range	[Ømm]	8x 4,5-10				
PV-connectors	•/-	-				
PV-connectors - manufacturer/type-designation -						
terminals						
terminais						
"+" potential / "-" potential		+plu	S	-minus		
		+plu Sprin		-minus Spring		
"+" potential / "-" potential	[mm]		g			
"+" potential / "-" potential screw terminal/spring clamp	[mm] [Nm]	Sprin	g	Spring		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length		Sprin	g	Spring		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque	[Nm] Al/Cu	Sprin 131	g	Spring 1315 -		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material	[Nm] Al/Cu [mm ²]	Sprin 131	lg .5	Spring 1315 -		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section	[Nm] Al/Cu [mm ²] [mm ²]	Sprin 131 - Cu	lg 1.5	Spring 1315 - Cu		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section Cu-finely stranded with end sleeve	[Nm] Al/Cu [mm ²]	Sprin 131 - Cu from :	ng 1.5	Spring 1315 - Cu from 1.5		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section Cu-finely stranded with end sleeve Cu-finely stranded without end sleeve	[Nm] Al/Cu [mm ²] [mm ²]	Sprin 131 - Cu from : 0.5:	ng 1.5	Spring 1315 - Cu from 1.5 0.510		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section Cu-finely stranded with end sleeve Cu-finely stranded without end sleeve Cu-solid or stranded <u>output (for pv-inverter)</u>	[Nm] Al/Cu [mm ²] [mm ²]	Sprin 131 - Cu from : 0.5:	ng 1.5	Spring 1315 - Cu from 1.5 0.510		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section Cu-finely stranded with end sleeve Cu-finely stranded without end sleeve Cu-solid or stranded <u>output (for pv-inverter)</u> cable entry	[Nm] Al/Cu [mm ²] [mm ²] [mm ²]	Sprin 131 - Cu from : 0.5:	ng 1.5	Spring 1315 - Cu from 1.5 0.510 110		
"+" potential / "-" potential screw terminal/spring clamp insulation stripping length tightening torque appropriate conductor material wire cross section Cu-finely stranded with end sleeve Cu-finely stranded without end sleeve Cu-solid or stranded <u>output (for pv-inverter)</u> cable entry cable glands (EN 50262)	[Nm] Al/Cu [mm ²] [mm ²] [mm ²]	Sprin 131 - Cu from : 0.5:	ng .5 1.5 10 0	Spring 1315 - Cu from 1.5 0.510 110		

terminals						
screw terminal/spring clamp	Spring					
insulation stripping length	[mm]	1820				
tightening torque	[Nm]	-				
appropriate conductor material	Al/Cu	Cu				
wire cross section						
Cu-finely stranded with end sleeve	from 2.5					
Cu-finely stranded without end sleev	0.525					
Cu-solid or stranded	[mm ²]	0.516				
Alu - round, solid	[mm ²]	-				
Alu - round, stranded	[mm ²]	-				
Alu - sector, solid	[mm ²]	-				
Alu - sector, stranded	[mm ²]	-				
<u>connection to ground</u>						
cable entry						
cable glands (EN 50262)	•/-	•				
clamping range	[Ømm]	6-13				
terminals						
screw terminal/spring clamp	Screw					
insulation stripping length	[mm]	15				
tightening torque	[Nm]	2.5				
appropriate conductor material	Al/Cu	Cu				
wire cross section						
Cu-finely stranded with end sleeve	[mm ²]	416				
Cu-finely stranded without end sleev	-					
Cu-solid or stranded	[mm ²]	Solid wire 1.525 Stranded wire 1625				
Alu - round, solid	[mm ²]	-				
Alu - round, stranded	[mm ²]	-				
Alu - sector, solid	[mm ²]	-				
Alu - sector, stranded	[mm ²]					

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<u>general data</u>

general data			
dimensions (WxHxD)	[mm]	250 x 370 x 123	
weight	[kg]	-	
operating temperature range	[°C]	-25°C - + 35	
derating above temperature	[°C]	-	
transport + storage temperature	[°C]	-25°C - + 35	
humidity - condensing permitted	•/-	•	
humidity within the range of	[%]	595	
max. altitude above sea level NN	[m]	2000	
protection class IP	(EN 60529)	65	
outdoor-application permitted	•/-	-	
exposure to <u>direct</u> weathering	•/-	-	
protection against electric shock (EN 61140)		Ш	
cabinet material		PC Polycarbonate	
RoHS-conformity (2011/65/EU)	•/-	•	
colour of cabinet		similar to RAL7035	
way of mounting		wall mounting	
quantity of expanded clay (only ground mounting)	[1]	-	
locking system		Screw lock	
<u>relevant standards</u>			
switching devices		EN 61439-1 EN 61439-2	
surge/overvoltage protection		DIN EN 62305-3 supplementary sheet 5	
PV power supply systems		DIN IEC 60364-7-712	
miscellaneous			
customs tariff number		85371098	
spare parts		order-nr.	
spare parts Merz MDC1A-040-600			
	10009572 10010313		
DG YPV SCI 1000 FM Kompakt (9505 PV Protec CR 40/1000 Y TD	10010313		
		10013045	

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