

Extract from Test report for NS protection: 28112188 015 rev.01
 “Determination of electrical properties”

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Extract No: 2 _ Annex F.4 (VDE-AR-N 4105)

Table: Construction of the power generation system/network and system protection (NS-protection)			
Central NS protection			
NS protection as central NS protection		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Type of NS protection	---	Other manufacturer's data	
Software version	---	---	
Manufacturer	---		

Measuring period		---	
Protection function	Setting value	Tripping Value	Tripping time NS protection
Voltage drop protection U <	0,8 U _n	U _n	- ms
Rise-in-voltage protection U >	1,1 U _n	U _n	- s
Rise-in-voltage protection U >>	1,15 U _n	U _n	- ms
Frequency decrease protection f <	47,5 Hz	Hz	- ms
Frequency increase protection f >	51,5 Hz	Hz	- ms
Integrated NS protection			
NS protection as integrated NS protection		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Type of NS protection	Circuit breaker	Other manufacturer's data	
Software version	1850F	Integrated interface switch Type of switching equipment 1: Contactor AF146-30 Series (1SFL467072R3210) Type of switching equipment 2: Switch XT4D 250 3p F F 800VAC + ACC (part number 1SDA105310R1)	
Manufacturer	ABB		
Measuring period		20/08/2018 – 13/11/2018	
Protection function	Setting value	Tripping Value	Break time
Voltage drop protection U <	0,8 U _n	641.5 V	160 ms
Rise-in-voltage protection U >	1,1 U _n	1.100 U _n	451000 ms
Rise-in-voltage protection U >>	1,15 U _n	920.45 V	190 ms
Frequency decrease protection f <	47,5 Hz	47.45 Hz	180 ms
Frequency increase protection f >	51,5 Hz	51.50 Hz	190 ms
proper time of interface switch	<5 ms Max.		
The break time (sum of tripping time NS protection plus proper time of interface switch) shall not exceed 200ms. The verification of the full function chain “NS-protection – Interface switch” has yield to intended disconnection U _n = 800V NOTE: Test was carried out with the voltages phase to phase. Neutral not provided. Anti-Islanding test was not performed			

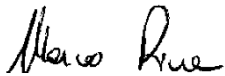
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This extract from the test report is only valid in conjunction with the test report no.: 28112188 015 rev.01

Reviewed by:



05/03/2019 Marco Piva / BFM

Datum	Name/Stellung	Unterschrift
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>