

Extract from Test report for NS protection: 28110272 004
 “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	Relay contacts	Other manufacturer's data	
Software version	MCU: >C.0.4.0 DSPB: >A.1.1.9 DSPI: >B.0.3.6	Model	Power
Manufacturer	POWER-ONE ITALY S.P.A. Via S. Giorgio, 642 52028 Terranuova Bracciolini, Arezzo, Italy	UNO-DM-5.0-TL-PLUS	5000W
		UNO-DM-4.6-TL-PLUS	4600W
		UNO-DM-4.0-TL-PLUS	4000W
		UNO-DM-3.3-TL-PLUS	3000W
		UNO-DM-2.0-TL-PLUS	2000W
		UNO-DM-1.2-TL-PLUS	1200W
		Integrated interface switch Type of switching equipment 1: Relay Type of switching equipment 2: Relay	
Measuring period		20/12/2016 – 20/01/2017	
Protection function	Setting value	Tripping Value	Break time
Voltage drop protection U <	184.0V / 0.16s	183.95	190.2
Rise-in-voltage protection U >	253V/ 600s	112% UN	495
Rise-in-voltage protection U >>	264.5V/ 0.16s	264.35V	185
Frequency decrease protection f <	47.5Hz/ 0.18s	47.502Hz	191
Frequency increase protection f >	51.5Hz/ 0.18s	51.492Hz	170
proper time of interface switch	20 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			

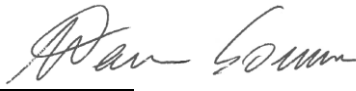
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Remarks:

This extract from the test report is only valid in conjunction with the test report no.: **28110272 004**

20/01/2017	Antonio Somma / Tester	
Datum	Name/Stellung	Unterschrift
Date	Name/Position	Signature

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