Extract from Test report for NS protection: **28111587 029**
"Determination of electrical properties"

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		☐ YES	☒ 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		☒ YES	☐ NO	
Type of NS protection	Relay contacts	**Other manufacturer's data**		
Software version	1840C	Assigned to PGU Type : **REACT2-UNO-5.0-TL** Integrated interface switch Type of switching equipment 1: Relay Type of switching equipment 2: Relay		
Manufacturer	Power-One Italy S.p.A. Via San Giorgio 642, 52028 - Terranuova Bracciolini AR - Italy			
Measuring period		**25/06/2018 – 30/07/2018**		

Protection function	**Setting value**	**Tripping Value**	**Break time**
Voltage drop protection U <	0,8 U_n	183.8 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	264.5 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			

Extract from Test report for NS protection: **28111587 029**
"Determination of electrical properties"

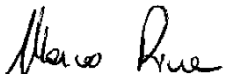
Extract No: 2 _ **Annex F.4** (VDE-AR-N 4105)

Remarks:

Test performed on model REACT2-UNO-5.0-TL. The test result can be extended on all model of the same product family. The family product model is made by the following products:
REACT2-UNO-5.0-TL , REACT2-UNO-3.6-TL

This extract from the test report is only valid in conjunction with the test report no.: **28111587 029**

Reviewed by:



Datum	**Name/Stellung**	**Unterschrift**
Date	*Name/Position*	*Signature*
12/10/2018	Marco Piva / BFM	