Extract from test report for NS protection "Determination of electrical properties"		Nr: 2016 - 161	9	
□ NS protection as cer	ntral NS pro	tection		
Type of NS protection:		Other manufact	turer's data	
Software version:				
Manufacturer:				
Measuring period: from JJJJ-MM-TT to JJJJ	J-MM-TT	•		
Protection function	Setting value	Tripping value	Tripping time NS protection ^a	
Voltage drop protection $U <$	0,8 * <i>U</i> n	* U n	ms	
Rise-in-voltage protection $U >$	1,1 * <i>U</i> n	* U n	ms	
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	
NS protection as interest.	egrated NS	protection		
Type of NS protection: Steca-ENS		Other manufact	turer's data	
Software version: Net13_ENS_APP_0_26_0.upd Manufacturer: Steca Elektronik GmbH Mammostraße 1 87700 Memmingen Germany		Assigned to PGU type: StecaGrid 3203 StecaGrid 3203x StecaGrid 4003 StecaGrid 4003x StecaGrid 4803 StecaGrid 4803x StecaGrid 5503 StecaGrid 5503x StecaGrid 5503x StecaGrid 5003 StecaGrid 6003 Integrated interface switch Type of Switching equipment 1 relay		
Measuring period: from 2011-08-01 to 2011	-12-21	Type of Sw	itching equipment 2 relay	
Protection function Voltage drop protection $U <$	Setting value	Tripping value	Tripping time NS protection ^a	
Rise-in-voltage protection $U >$			< 200 ms	
	1,1 * U n	1,1 * <i>U</i> n	190 ms	
Rise-in-voltage protection $U >>$	1,15 * <i>U</i> n	1,15 * U n		
Frequency decrease protection $f <$	47,5 Hz	47,5 Hz	168 ms	
Frequency increase protection $f >$	51,5 Hz	51,5 Hz	184 ms	

The break time (sum of tripping time NS protection plus proper time of interface switch) shall not exceed 200 ms. The verification of the full functional chain "NS protection – Interface switch" has yield to intended disconnection...

< 5 ms

proper time of interface switch