SPITZENBERGER SPIES

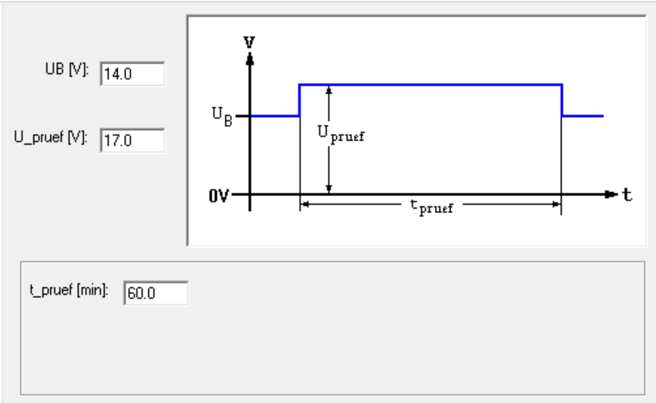
VW 80000

Auf einen Blick

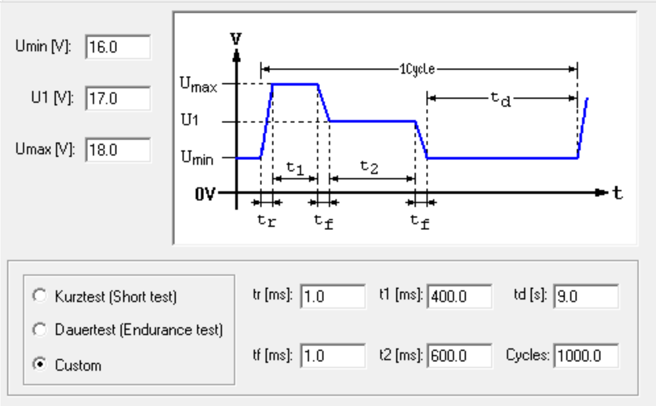
Elektrische und elektronische Komponenten
von Fahrzeugen bis 3.5t

Der Normenbezug:
VW 80000
LV124
MBN LV124-1
BMW GS 95024-2-2

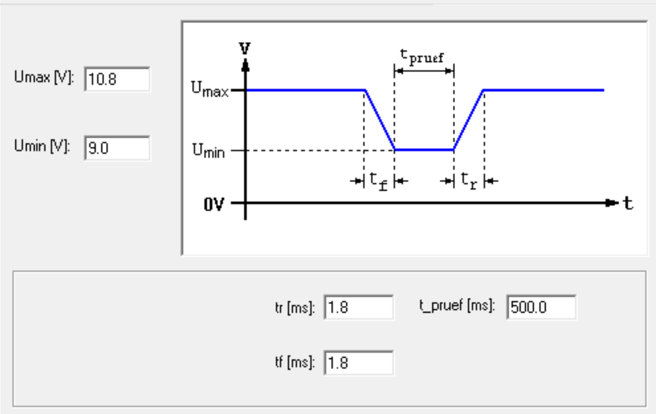
E-01:
Langzeit Überspannungen



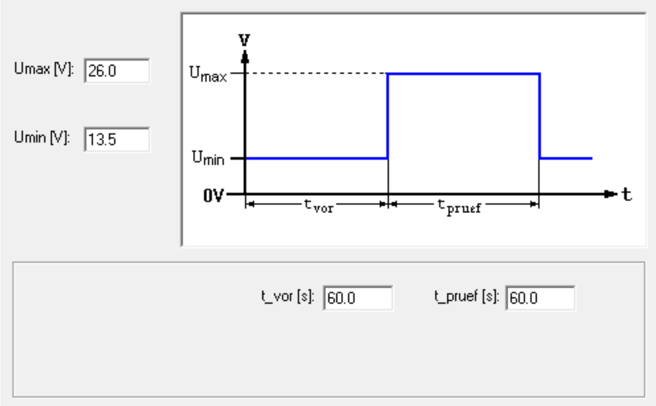
E-02:
Transiente Überspannung



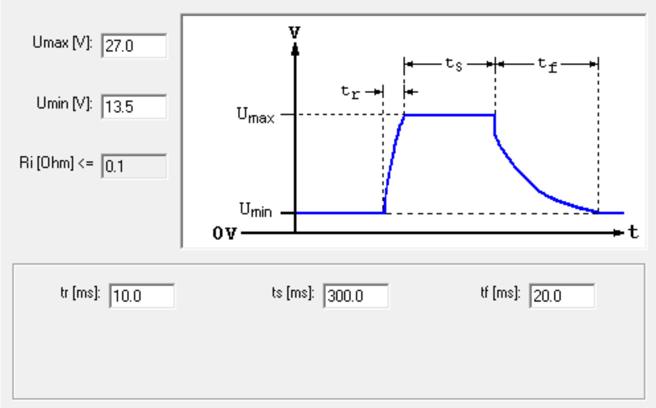
E-03:
Transiente Unterspannung



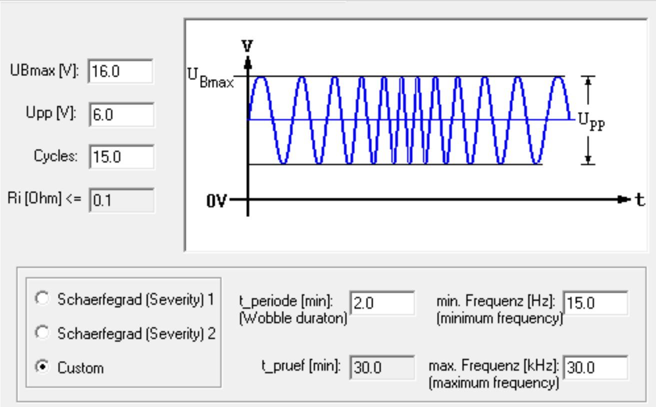
E-04:
Jumpstart



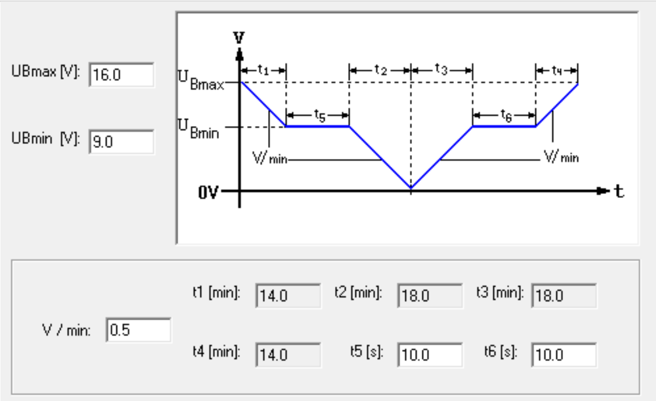
E-05:
Load dump



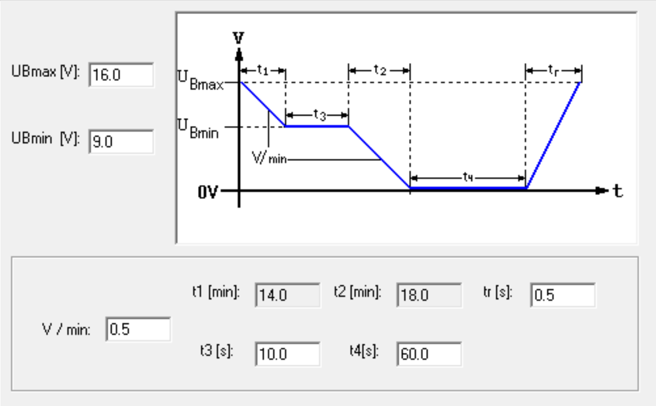
E-06:
Überlagerte Wechselspannung



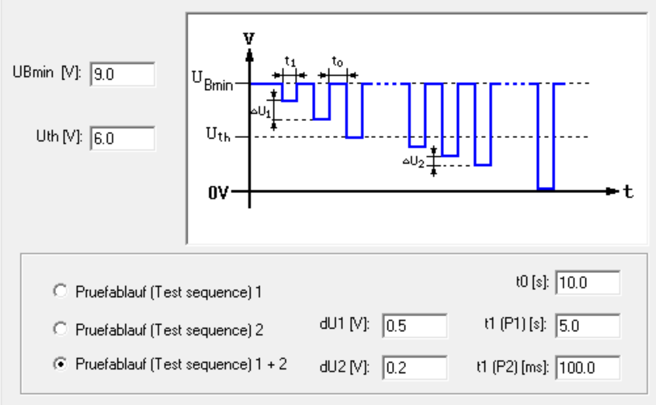
E-07:
Langsames Absenken - Anheben



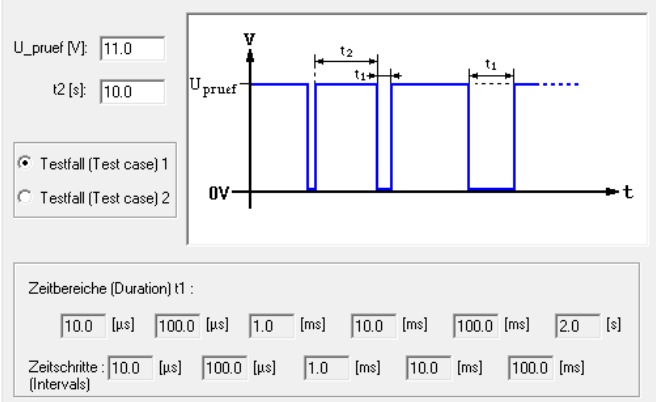
E-08:
Langsam Absenken - schnell Erhöhen



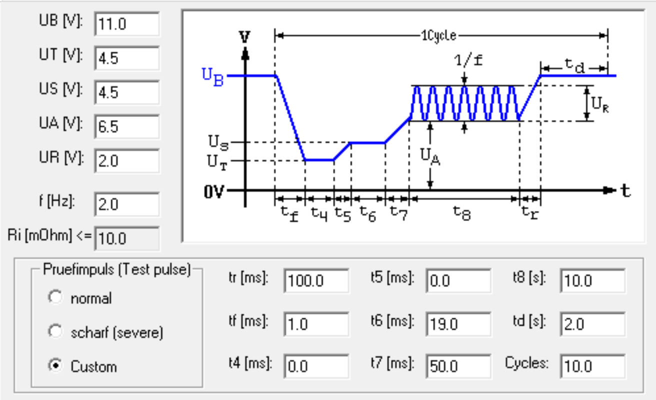
E-09:
Resetverhalten

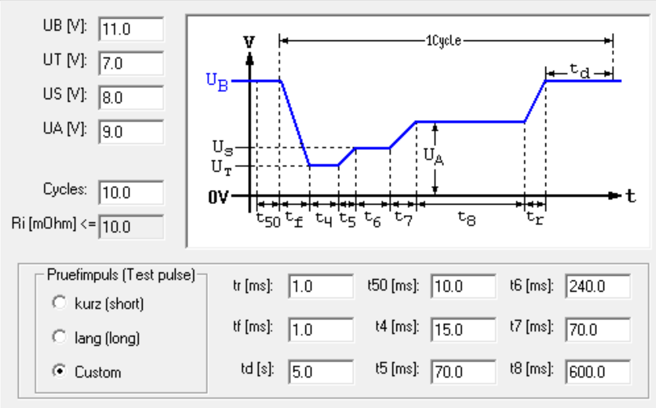
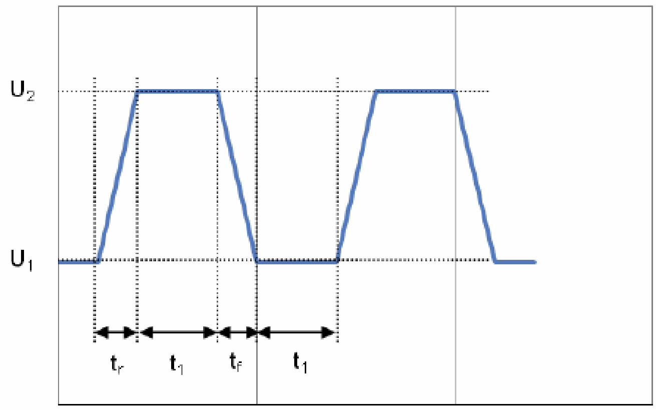
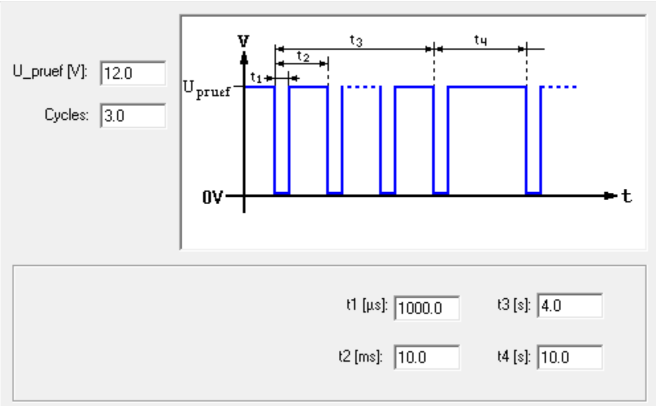


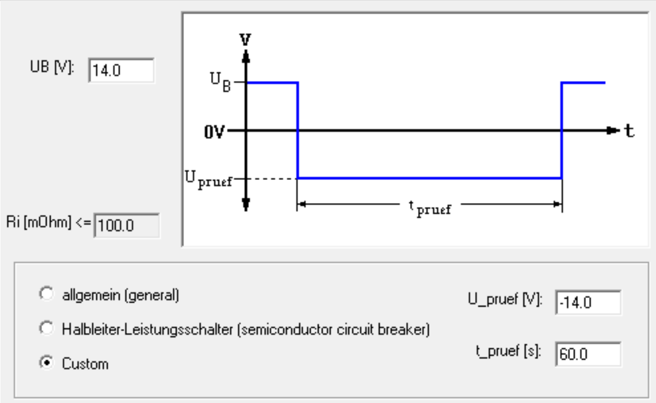
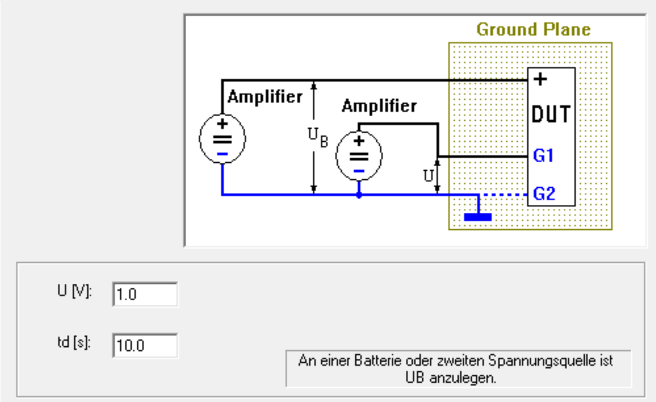
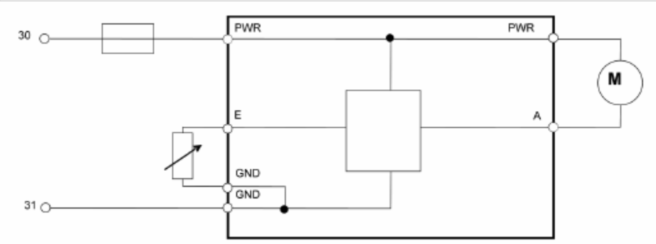
E-10:
Kurzzeitunterbechungen auf den Versorgungsleitungen



E-11:
Startimpuls - Kaltstart



E-11: *Startimpuls - Warmstart*	
E-12: *Spannungsverlauf Bordnetzregelung*	
E-13: *Kurzzeitunterbechungen auf Signal- und Datenleitungen*	
E-14: *Steckerunterbrechung*	Under work

E-15: *Verpolung*	
E-16: *Masseversatz*	
E-17: *Kurzschluss auf Signal- und Lastleitungen*	
E-18: *Isolationswiderstand*	
E-20: *Durchschlagfestigkeit*	

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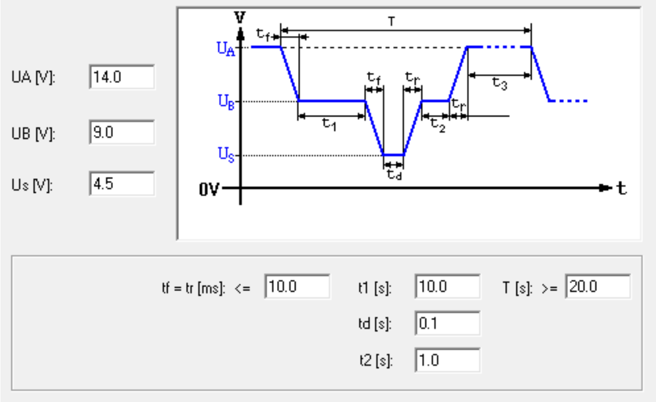
<tr><td>BMW GS 95024-2-2</td><td></td></tr>
<tr><td>E-40:
Sehr kurzer Spannungseinbruch</td><td>


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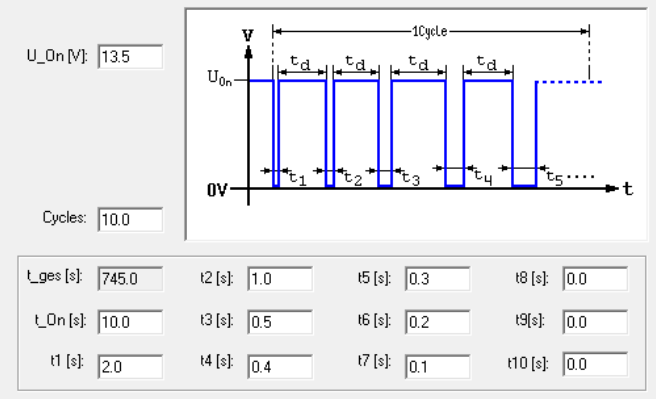
<tr><td>E-41:
Kurzes Aus / An für Busteilnehmer</td><td>


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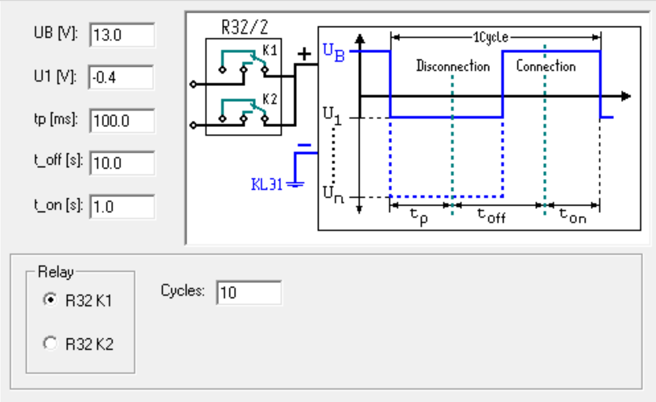
<tr><td>E-42:
Spannungsimpulse aufgrund Verbraucherabschaltung</td><td>


</td></tr>
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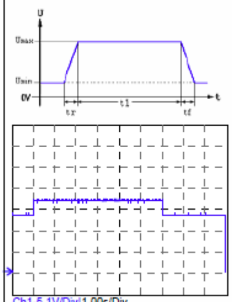
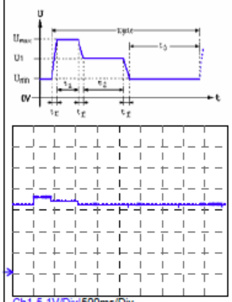
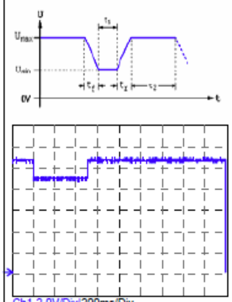
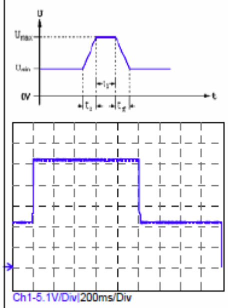
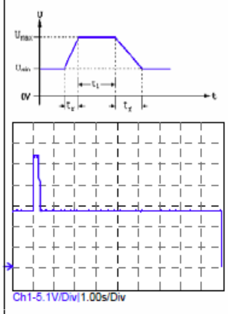
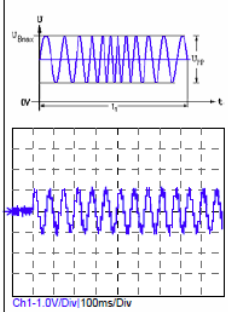
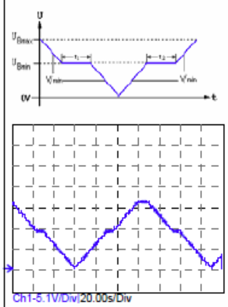
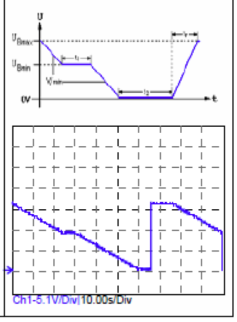
Beispiel Prüfausdruck:

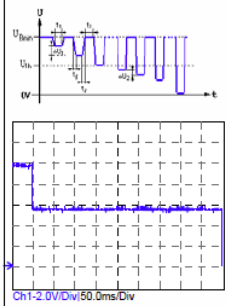
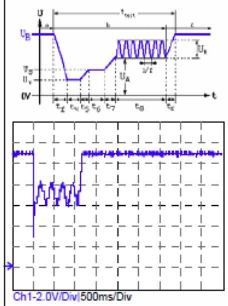
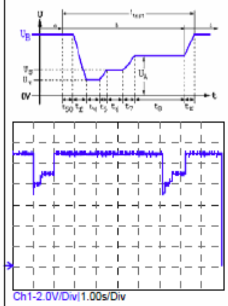
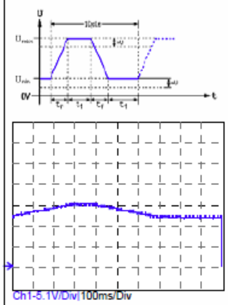
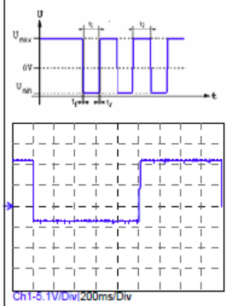
Spitzenberger & Spies
Viechtach

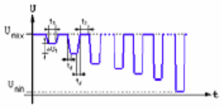
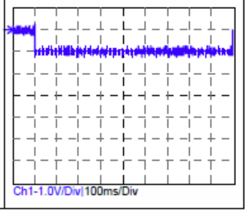
Name:	Herr Mustermann	Serial no:	A5211
Department:	Fertigung	Operating modes:	normal
Company:	SPS	Comment1:	--
Test report no:	1	Comment2:	--
Device:	PAS 2500/GN/Kfz	Comment3:	--
Specimen:	VW 80000	Comment4:	--
Manufacturer:	SPS	Date:	29.04.2014
Type:		Test date:	28.04.2014

Nominal voltage:	12.00 Volt
Shunt resistor Rs:	no shunt
Executed test:	VW 80000
Test description:	--

Pulse	U_Puls	Ri	Test parameters	Pulses Time	Delay	Figure
Tools - E-01 Langzeit Überspannungen	-	0.0 Ohm	tr = 9.9ms, tf = 9.9ms, t1 = 6.0s, Umax = 17.000V, Umin = 13.500V	2 P.	10.0 s	
Tools - E-02 Transiente Überspannung	-	0.0 Ohm	tr = 1.0ms, tf = 1.0ms, t1 = 400.0ms, t2 = 600.0ms, t3 = 1.0s, Umin = 16.000V, U1 = 17.000V, Umax = 18.000V, Cycles = 1	2 P.	10.0 s	
Tools - E-03 Transiente Unterspannung	-	0.0 Ohm	tr = 1.8ms, tf = 1.8ms, t1 = 500.0ms, t2 = 1.0s, Umin = 9.000V, Umax = 10.800V, Cycles = 1	2 P.	10.0 s	

Pulse	U_Puls	Ri	Test parameters	Pulses Time	Delay	Figure
Tools - E-04 Jumpstart	-	0.0 Ohm	tr = 9.9ms, tf = 9.9ms, t1 = 1.0s, Umax = 26.000V, Umin = 10.800V	2 P.	10.0 s	
Tools - E-05 Load Dump	-	0.0 Ohm	tr = 2.0ms, tf = 30.0ms, t1 = 300.0ms, Umax = 27.000V, Umin = 13.500V, Cycles = 1, Breaktime = 6.000min	2 P.	10.0 s	
Tools - E-06 Überlagerte Wechselspannung	-	0.10 Ohm	Ua = 15.0V, t1 = 60.0s, Umax = 16.000V, Upp = 2.000V, Fmin = 15.000Hz, Fmax = 30000.000Hz, Cycles = 1, UB = 15.000V	2 P.	10.0 s	
Tools - E-07 Langsames Absenken - Anheben	-	0.0 Ohm	t1 = 6.0s, t2 = 6.0s, UBmax = 16.000V, U1 = 9.000V, U2 = 9.000V, Delta U = 18.000V/min	2 P.	10.0 s	
Tools - E-08 Langsam Absenken - schell Erhöhen	-	0.0 Ohm	tr = 100.0ms, t1 = 6.0s, t2 = 6.0s, UBmax = 16.000V, U1 = 9.000V, Delta U = 18.000V/min	2 P.	10.0 s	

Pulse	U_Puls	Ri	Test parameters	Pulses Time	Delay	Figure
Tools - E-09 Resetverhalten	-	0.0 Ohm	tr = 10.0ms, tf = 10.0ms, t2 = 100.0ms, Umax = 9.800V, Umin = 2.000V, Uth = 6.000V, Delta U1 = 1.000V, Delta U2 = 0.500V, t1 case 1 = 5.0s	2 P.	10.0 s	
Tools - E-11 Startimpuls - Kaltstart	-	0.0 Ohm	Ua = 6.0V, tr = 100.0ms, tf = 1.0ms, t4 = 20.0ms, t5 = 10.0ms, t6 = 20.0ms, t7 = 10.0ms, t8 = 1.0s, UB = 11.000V, UT = 3.000V, US = 5.000V, UR = 2.000V, Frequenz = 4.000Hz, Cycles = 1, Break = 1.0s	2 P.	10.0 s	
Tools - E-11 Startimpuls - Warmstart	-	0.0 Ohm	Ua = 9.0V, tr = 1.0ms, tf = 10.0ms, t4 = 15.0ms, t5 = 70.0ms, t6 = 240.0ms, t7 = 70.0ms, t8 = 600.0ms, UB = 11.000V, UT = 7.000V, US = 8.000V, t50 = 0.01ms, Cycles = 3, Break = 5.0s	2 P.	10.0 s	
Tools - E-12 Spannungsverlauf Bordnetzregelung	-	0.0 Ohm	tr = 300.0ms, tf = 300.0ms, t1 = 100.0ms, Umax = 15.000V, Umin = 11.800V, Cycles = 1	2 P.	10.0 s	
Tools - E-15 Verpolung - dynamisch	-	0.10 Ohm	tr = 10.0ms, tf = 10.0ms, t1 = 1.0s, t2 = 6.0s, Umax = 10.800V, Umin = -4.000V, Cycles = 3	2 P.	10.0 s	

Pulse	U_Puls	Ri	Test parameters	Pulses Time	Delay	Figure
Tools - E-15 Verpolung - statisch	-	0.10 Ohm	tr = 10.0ms, tf = 10.0ms, t1 = 1.0s, t2 = 1.0s, Umin = -14.000V, Delta U = -1.000V	2 P.	10.0 s	 

Comment: