



ABNORMAL TEST RESULT

OF MODEL HCA3500TF

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

(FMEA : 2/119 ~ 101/119)

(Abnormal Test Result: 102/119 ~ 119/119)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.



F M E A

Component	Mode	Comment	Output Voltage (V)
C11	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C12	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C13	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C14	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C15	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C16	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C101	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C102	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C103	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C104	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C105	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C106	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C107	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C108	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C109	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C110	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C112	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C113	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C114	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C115	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C116	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C117	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C118	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C119	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C120	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C121	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C122	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C123	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C124	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C125	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C126	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C127	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C128	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C129	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C131	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C132	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C133	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C134	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C136	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C139	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C140	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C141	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C143	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C144	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C145	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C146	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C147	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C148	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C149	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C150	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C155	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C156	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C157	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C158	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C159	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C160	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C201	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C203	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C204	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C206	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C207	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C208	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C209	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C210	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C211	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C212	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C213	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C215	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C216	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C217	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C218	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C219	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C220	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C222	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C223	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C224	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C225	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C228	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C229	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C230	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C231	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C232	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C233	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C240	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C241	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C301	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C302	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C303	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C304	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C305	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C306	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C307	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C308	Open	Normal operation.	AVR1:*
	Short	See page 102.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C309	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C310	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C311	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C312	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C315	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C316	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C317	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C318	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C319	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C320	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C321	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C322	Open	Normal operation.	AVR1:*
	Short	See page 102.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C323	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C324	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C325	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C326	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C327	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C328	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C329	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C330	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C331	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C332	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C333	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C334	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C335	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C336	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C337	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C338	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C339	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C340	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C341	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C342	Open	Normal operation.	AVR1:*
	Short	See page 102.	
C343	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C344	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C345	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C346	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C347	Open	See page 103.	
	Short	See page 103.	
C348	Open	See page 103.	
	Short	See page 103.	
C349	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C350	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C351	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C352	Open	See page 103.	
	Short	See page 103.	
C353	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C354	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C355	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C356	Open	See page 103.	
	Short	See page 103.	
C357	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C360	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C361	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C362	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C363	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C364	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C365	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Normal operation.	AVR1:*
C366	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C367	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C368	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C369	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C370	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C371	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C372	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C373	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C374	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C375	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C376	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C377	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C378	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C501	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C502	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C503	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C504	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C505	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C506	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C507	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C508	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C509	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C510	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C511	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C512	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C513	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C514	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C515	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C516	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C517	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C518	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C530	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C531	Open	See page 103.	
	Short	See page 103.	
C532	Open	See page 103.	
	Short	See page 103.	
C533	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C534	Open	See page 104.	
	Short	See page 104.	
C535	Open	See page 104.	
	Short	See page 104.	
C603	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C604	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C606	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C607	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C608	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C609	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased



F M E A

Component	Mode	Comment	Output Voltage (V)
C610	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C611	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C612	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C613	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C616	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C617	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C619	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C620	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C621	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C622	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C624	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C625	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage decreased.No hazard.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
C626	Open	Output voltage decreased.No hazard.	AVR1:decreased
	Short	Output voltage increased.No hazard.	AVR1:increased
C627	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C629	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C632	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C634	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C640	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C641	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C642	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C643	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C701	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C702	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C703	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C704	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C705	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C706	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C707	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C708	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C711	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C712	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C713	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C714	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C715	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C716	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C717	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C718	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C719	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C720	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C721	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C722	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C723	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C724	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C725	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C726	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C727	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C728	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C729	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased



F M E A

Component	Mode	Comment	Output Voltage (V)
C730	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C731	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
C732	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C733	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C734	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C738	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C741	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C802	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C803	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C804	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C805	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C806	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C807	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C808	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C810	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C811	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C812	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C813	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C814	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C815	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C817	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C820	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D101	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D102	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
D103	Open	See page 104.	
	Short	Normal operation.	AVR1:*
D104	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D105	Short	Normal operation.	AVR1:*
	Open	See page 104.	
D106	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D107	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D108	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D109	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D110	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D112	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D113	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D114	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
D115	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D120	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D121	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D122	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D123	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D124	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D125	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D126	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D127	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D128	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D129	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D201	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
D202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D203	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D204	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D205	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D305	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D306	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D307	Open	See page 104.	
	Short	See page 104.	
D308	Open	See page 104.	
	Short	See page 104.	
D309	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D310	Open	Normal operation.	AVR1:*
	Short	See page 104.	
D312	Open	Normal operation.	AVR1:*
	Short	See page 104.	
D313	Open	Normal operation.	AVR1:*
	Short	See page 104.	



F M E A

Component	Mode	Comment	Output Voltage (V)
D314	Open	Normal operation.	AVR1:*
	Short	See page 104.	
D315	Open	Normal operation.	AVR1:*
	Short	See page 104.	
D316	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D317	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D318	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D319	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D501	Open	See page 104.	
	Short	See page 104.	
D502	Open	See page 104.	
	Short	See page 105.	
D503	Open	See page 105.	
	Short	See page 105.	
D504	Open	See page 105.	
	Short	See page 105.	
D505	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D506	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
D601	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D701	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D702	Open	See page 105.	
	Short	See page 105.	
D703	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D704	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D705	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D706	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D707	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D708	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D709	Open	Output voltage increased.No hazard.	AVR1:increased
	Short	Normal operation.	AVR1:*
D710	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D801	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
D802	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D803	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
IC101	Open	1	No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
IC102	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		10	Normal operation.	AVR1:*
		11	No hazard.	AVR1:0
		12	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Open	13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
		8-9	No hazard.	AVR1:0
		9-10	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	F11, F12, F13 opened. No hazard.	AVR1:0
		14-15	F11, F12, F13 opened. No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	F11, F12, F13 opened. No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Short	18-19	Normal operation.	AVR1:*
		19-20	Normal operation.	AVR1:*
IC103	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	F11, F12, F13 opened. No hazard.	AVR1:0
		6-7	F11, F12, F13 opened. No hazard.	AVR1:0
		7-8	F11, F12, F13 opened. No hazard.	AVR1:0
IC104	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC104	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
IC201	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
IC202	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC202	Short	K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0
IC203	Open	1	No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	Normal operation.	AVR1:*
		22	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Open	23	Normal operation.	AVR1:*
		24	Normal operation.	AVR1:*
		25	Normal operation.	AVR1:*
		26	Normal operation.	AVR1:*
		27	Normal operation.	AVR1:*
		28	No hazard.	AVR1:0
		29	No hazard.	AVR1:0
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	Normal operation.	AVR1:*
		33	Normal operation.	AVR1:*
		34	Normal operation.	AVR1:*
		35	No hazard.	AVR1:0
		36	Normal operation.	AVR1:*
		37	No hazard.	AVR1:0
		38	Normal operation.	AVR1:*
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
		8-9	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Short	9-10	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	No hazard.	AVR1:0
		20-21	Normal operation.	AVR1:*
		21-22	Normal operation.	AVR1:*
		22-23	Normal operation.	AVR1:*
		23-24	Normal operation.	AVR1:*
		24-25	Normal operation.	AVR1:*
		25-26	Normal operation.	AVR1:*
		26-27	Normal operation.	AVR1:*
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	No hazard.	AVR1:0
		30-31	Normal operation.	AVR1:*
		31-32	Normal operation.	AVR1:*
		32-33	Normal operation.	AVR1:*
		33-34	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Short	34-35	Normal operation.	AVR1:*
		35-36	Normal operation.	AVR1:*
		36-37	No hazard.	AVR1:0
		37-38	No hazard.	AVR1:0
IC301	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	See page 105.	
		5	See page 105.	
		6	See page 105.	
		7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	See page 105.	
		13	See page 105.	
		14	See page 105.	
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	See page 105.	
		18	See page 105.	
		19	See page 105.	
		20	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	See page 105.	
		5-6	See page 105.	
		6-7	See page 105.	
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		11-12	See page 105.	
		12-13	See page 105.	
		13-14	See page 105.	
		14-15	See page 105.	
		15-16	See page 105.	
		16-17	See page 106.	
		17-18	See page 106.	
		18-19	See page 106.	
		19-20	Normal operation.	AVR1:*
IC302	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	See page 106.	
		5	See page 106.	
		6	See page 106.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC302	Open	7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	See page 106.	
		13	See page 106.	
		14	See page 106.	
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	See page 106.	
		18	See page 106.	
		19	See page 106.	
		20	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	See page 106.	
		5-6	See page 106.	
		6-7	See page 106.	
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		11-12	See page 106.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC302	Short	12-13	See page 106.	
		13-14	See page 106.	
		14-15	See page 106.	
		15-16	See page 106.	
		16-17	See page 106.	
		17-18	See page 106.	
		18-19	See page 106.	
		19-20	Normal operation.	AVR1:*
IC303	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	No hazard.	AVR1:0
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC303	Open	17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	See page 106.	
		20	See page 107.	
		21	See page 107.	
		22	See page 107.	
		23	No hazard.	AVR1:0
		24	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	No hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		13-14	Normal operation.	AVR1:*
		14-15	Normal operation.	AVR1:*
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC303	Short	18-19	No hazard.	AVR1:0
		19-20	No hazard.	AVR1:0
		20-21	No hazard.	AVR1:0
		21-22	No hazard.	AVR1:0
		22-23	No hazard.	AVR1:0
		23-24	No hazard.	AVR1:0
IC501	Open	1	See page 107.	
		2	See page 107.	
		3	See page 107.	
		4	Normal operation.	AVR1:*
		5	See page 107.	
		6	See page 107.	
		7	Normal operation.	AVR1:*
		8	See page 107.	
		9	See page 107.	
		10	See page 107.	
		11	See page 107.	
		12	See page 107.	
		13	See page 107.	
	Short	1-2	See page 107.	
		2-3	No hazard.	AVR1:0
		3-4	See page 107.	
		4-5	See page 107.	
		5-6	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC501	Short	6-7	Normal operation.	AVR1:*
		8-9	See page 107.	
		9-10	No hazard.	AVR1:0
		10-11	See page 107.	
		11-12	See page 107.	
		12-13	No hazard.	AVR1:0
IC502	Open	1	Normal operation.	AVR1:*
		2	See page 107.	
		3	See page 107.	
		4	See page 107.	
		5	See page 107.	
		6	See page 108.	
		7	See page 108.	
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	See page 108.	
		3-4	See page 108.	
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*
IC503	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC503	Open	5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
IC601	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC602	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Output voltage decreased.No hazard.	AVR1:decreased
IC603	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC603	Short	3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC604	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Output voltage increased.No hazard.	AVR1:increased
IC605	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC605	Open	7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC701	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0
IC702	Open	1	No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Open	11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	No hazard.	AVR1:0
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	No hazard.	AVR1:0
		22	No hazard.	AVR1:0
		23	Normal operation.	AVR1:*
		24	No hazard.	AVR1:0
		25	Normal operation.	AVR1:*
		26	No hazard.	AVR1:0
		27	No hazard.	AVR1:0
		28	Normal operation.	AVR1:*
		29	Normal operation.	AVR1:*
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	Normal operation.	AVR1:*
		33	No hazard.	AVR1:0
		34	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Open	35	No hazard.	AVR1:0
		36	Normal operation.	AVR1:*
		37	Normal operation.	AVR1:*
		38	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
		8-9	Normal operation.	AVR1:*
		9-10	No hazard.	AVR1:0
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	No hazard.	AVR1:0
		20-21	No hazard.	AVR1:0
		21-22	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Short	22-23	No hazard.	AVR1:0
		23-24	Normal operation.	AVR1:*
		24-25	Normal operation.	AVR1:*
		25-26	No hazard.	AVR1:0
		26-27	No hazard.	AVR1:0
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	No hazard.	AVR1:0
		30-31	Normal operation.	AVR1:*
		31-32	Normal operation.	AVR1:*
		32-33	Normal operation.	AVR1:*
		33-34	No hazard.	AVR1:0
		34-35	Normal operation.	AVR1:*
		35-36	Normal operation.	AVR1:*
		36-37	Normal operation.	AVR1:*
		37-38	Normal operation.	AVR1:*
IC703	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0
IC801	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC801	Open	3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
L11	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	F11, F12 opened. No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		4-5	F12, F13 opened. No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
L12	Open	1	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L12	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	F11, F12 opened. No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		4-5	F12, F13 opened. No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
L101	Open		No hazard.	AVR1:0
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
L102	Open		No hazard.	AVR1:0
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
L301	Open		No hazard.	AVR1:0
	Short		See page 108.	
L501	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
L701	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L801	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
LED701	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
LED702	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
PC101	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC102	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC201	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 108.	
		C-E	See page 108.	
PC202	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 108.	
		C-E	See page 108.	
PC204	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 108.	
		Vcc-E	See page 108.	
		Vo-E	See page 108.	
PC205	Open	A, K	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
PC205	Open	C, E	No hazard.	AVR1:0
	Short	A-K	See page 108.	
		Vcc-E	See page 108.	
		Vo-E	See page 108.	
PC301	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 108.	
		C-E	See page 108.	
PC302	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	See page 108.	
		C-E	See page 108.	
PC801	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC802	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC803	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
PC804	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC805	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC807	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PTH101	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH102	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH301	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH501	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH502	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH503	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R11	Open	Normal operation.	AVR1:*
R12	Open	Normal operation.	AVR1:*
R13	Open	Normal operation.	AVR1:*
R14	Open	Normal operation.	AVR1:*
R15	Open	Normal operation.	AVR1:*
R16	Open	Normal operation.	AVR1:*
R17	Open	Normal operation.	AVR1:*
R18	Open	Normal operation.	AVR1:*
R19	Open	Normal operation.	AVR1:*
R20	Open	Normal operation.	AVR1:*
R21	Open	Normal operation.	AVR1:*
R22	Open	Normal operation.	AVR1:*
R23	Open	Normal operation.	AVR1:*
R24	Open	Normal operation.	AVR1:*
R25	Open	Normal operation.	AVR1:*
R26	Open	Normal operation.	AVR1:*
R27	Open	Normal operation.	AVR1:*
R28	Open	Normal operation.	AVR1:*
R29	Open	Normal operation.	AVR1:*
R30	Open	Normal operation.	AVR1:*
R31	Open	Normal operation.	AVR1:*
R32	Open	Normal operation.	AVR1:*
R33	Open	Normal operation.	AVR1:*
R34	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R35	Open	Normal operation.	AVR1:*
R36	Open	Normal operation.	AVR1:*
R37	Open	Normal operation.	AVR1:*
R38	Open	Normal operation.	AVR1:*
R39	Open	Normal operation.	AVR1:*
R40	Open	Normal operation.	AVR1:*
R41	Open	Normal operation.	AVR1:*
R42	Open	Normal operation.	AVR1:*
R43	Open	Normal operation.	AVR1:*
R44	Open	Normal operation.	AVR1:*
R45	Open	Normal operation.	AVR1:*
R46	Open	Normal operation.	AVR1:*
R101	Open	No hazard.	AVR1:0
R102	Open	No hazard.	AVR1:0
R103	Open	Normal operation.	AVR1:*
R104	Open	No hazard.	AVR1:0
R105	Open	No hazard.	AVR1:0
R106	Open	No hazard.	AVR1:0
R107	Open	No hazard.	AVR1:0
R108	Open	No hazard.	AVR1:0
R109	Open	No hazard.	AVR1:0
R110	Open	No hazard.	AVR1:0
R111	Open	No hazard.	AVR1:0
R112	Open	No hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R113	Open	No hazard.	AVR1:0
R114	Open	See page 108.	
R115	Open	Normal operation.	AVR1:*
R116	Open	No hazard.	AVR1:0
R117	Open	Normal operation.	AVR1:*
R118	Open	Normal operation.	AVR1:*
R119	Open	No hazard.	AVR1:0
R120	Open	See page 108.	
R121	Open	Normal operation.	AVR1:*
R122	Open	No hazard.	AVR1:0
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R125	Open	Normal operation.	AVR1:*
R126	Open	Normal operation.	AVR1:*
R127	Open	Normal operation.	AVR1:*
R128	Open	Normal operation.	AVR1:*
R129	Open	Normal operation.	AVR1:*
R130	Open	Normal operation.	AVR1:*
R131	Open	Normal operation.	AVR1:*
R132	Open	Normal operation.	AVR1:*
R133	Open	Normal operation.	AVR1:*
R134	Open	No hazard.	AVR1:0
R135	Open	No hazard.	AVR1:0
R136	Open	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R137	Open	Normal operation.	AVR1:*
R138	Open	Output voltage decreased.No hazard.	AVR1:decreased
R139	Open	Output voltage decreased.No hazard.	AVR1:decreased
R140	Open	Normal operation.	AVR1:*
R141	Open	No hazard.	AVR1:0
R142	Open	Normal operation.	AVR1:*
R144	Open	No hazard.	AVR1:0
R145	Open	No hazard.	AVR1:0
R146	Open	No hazard.	AVR1:0
R147	Open	No hazard.	AVR1:0
R149	Open	Normal operation.	AVR1:*
R150	Open	Normal operation.	AVR1:*
R151	Open	Normal operation.	AVR1:*
R152	Open	No hazard.	AVR1:0
R153	Open	No hazard.	AVR1:0
R155	Open	No hazard.	AVR1:0
R156	Open	No hazard.	AVR1:0
R158	Open	No hazard.	AVR1:0
R159	Open	No hazard.	AVR1:0
R160	Open	No hazard.	AVR1:0
R161	Open	No hazard.	AVR1:0
R162	Open	No hazard.	AVR1:0
R163	Open	No hazard.	AVR1:0
R164	Open	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R165	Open	No hazard.	AVR1:0
R166	Open	Normal operation.	AVR1:*
R167	Open	No hazard.	AVR1:0
R168	Open	No hazard.	AVR1:0
R169	Open	No hazard.	AVR1:0
R170	Open	No hazard.	AVR1:0
R171	Open	No hazard.	AVR1:0
R172	Open	No hazard.	AVR1:0
R173	Open	No hazard.	AVR1:0
R174	Open	No hazard.	AVR1:0
R175	Open	No hazard.	AVR1:0
R176	Open	No hazard.	AVR1:0
R177	Open	No hazard.	AVR1:0
R178	Open	No hazard.	AVR1:0
R179	Open	No hazard.	AVR1:0
R180	Open	No hazard.	AVR1:0
R181	Open	Normal operation.	AVR1:*
R182	Open	No hazard.	AVR1:0
R183	Open	No hazard.	AVR1:0
R184	Open	Normal operation.	AVR1:*
R185	Open	Normal operation.	AVR1:*
R186	Open	No hazard.	AVR1:0
R187	Open	No hazard.	AVR1:0
R188	Open	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R189	Open	Normal operation.	AVR1:*
R190	Open	Normal operation.	AVR1:*
R191	Open	Normal operation.	AVR1:*
R192	Open	No hazard.	AVR1:0
R193	Open	No hazard.	AVR1:0
R194	Open	No hazard.	AVR1:0
R195	Open	No hazard.	AVR1:0
R196	Open	Normal operation.	AVR1:*
R197	Open	Normal operation.	AVR1:*
R201	Open	No hazard.	AVR1:0
R202	Open	No hazard.	AVR1:0
R203	Open	No hazard.	AVR1:0
R204	Open	No hazard.	AVR1:0
R205	Open	No hazard.	AVR1:0
R206	Open	No hazard.	AVR1:0
R207	Open	No hazard.	AVR1:0
R208	Open	Normal operation.	AVR1:*
R209	Open	Normal operation.	AVR1:*
R212	Open	No hazard.	AVR1:0
R213	Open	No hazard.	AVR1:0
R214	Open	No hazard.	AVR1:0
R215	Open	No hazard.	AVR1:0
R217	Open	No hazard.	AVR1:0
R219	Open	No hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R220	Open	No hazard.	AVR1:0
R222	Open	No hazard.	AVR1:0
R223	Open	No hazard.	AVR1:0
R224	Open	No hazard.	AVR1:0
R225	Open	No hazard.	AVR1:0
R226	Open	No hazard.	AVR1:0
R227	Open	No hazard.	AVR1:0
R228	Open	No hazard.	AVR1:0
R229	Open	Normal operation.	AVR1:*
R230	Open	Normal operation.	AVR1:*
R231	Open	Normal operation.	AVR1:*
R232	Open	No hazard.	AVR1:0
R233	Open	No hazard.	AVR1:0
R234	Open	No hazard.	AVR1:0
R235	Open	Normal operation.	AVR1:*
R236	Open	Normal operation.	AVR1:*
R237	Open	Normal operation.	AVR1:*
R238	Open	No hazard.	AVR1:0
R239	Open	No hazard.	AVR1:0
R242	Open	No hazard.	AVR1:0
R243	Open	No hazard.	AVR1:0
R244	Open	Normal operation.	AVR1:*
R245	Open	Normal operation.	AVR1:*
R246	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R247	Open	Normal operation.	AVR1:*
R248	Open	No hazard.	AVR1:0
R249	Open	Normal operation.	AVR1:*
R251	Open	No hazard.	AVR1:0
R252	Open	No hazard.	AVR1:0
R253	Open	No hazard.	AVR1:0
R254	Open	Normal operation.	AVR1:*
R255	Open	Normal operation.	AVR1:*
R256	Open	Normal operation.	AVR1:*
R257	Open	Normal operation.	AVR1:*
R258	Open	No hazard.	AVR1:0
R259	Open	No hazard.	AVR1:0
R260	Open	See page 108.	
R261	Open	See page 108.	
R262	Open	See page 108.	
R263	Open	See page 109.	
R264	Open	Normal operation.	AVR1:*
R265	Open	No hazard.	AVR1:0
R301	Open	Normal operation.	AVR1:*
R302	Open	Normal operation.	AVR1:*
R303	Open	Normal operation.	AVR1:*
R304	Open	Normal operation.	AVR1:*
R305	Open	Normal operation.	AVR1:*
R306	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R307	Open	Normal operation.	AVR1:*
R308	Open	Normal operation.	AVR1:*
R309	Open	Normal operation.	AVR1:*
R310	Open	Normal operation.	AVR1:*
R311	Open	Normal operation.	AVR1:*
R312	Open	Normal operation.	AVR1:*
R313	Open	Normal operation.	AVR1:*
R314	Open	Normal operation.	AVR1:*
R315	Open	Normal operation.	AVR1:*
R316	Open	No hazard.	AVR1:0
R317	Open	No hazard.	AVR1:0
R318	Open	No hazard.	AVR1:0
R319	Open	No hazard.	AVR1:0
R320	Open	Normal operation.	AVR1:*
R321	Open	Normal operation.	AVR1:*
R322	Open	Normal operation.	AVR1:*
R323	Open	No hazard.	AVR1:0
R324	Open	No hazard.	AVR1:0
R325	Open	Normal operation.	AVR1:*
R326	Open	Normal operation.	AVR1:*
R327	Open	Normal operation.	AVR1:*
R328	Open	Normal operation.	AVR1:*
R329	Open	Normal operation.	AVR1:*
R330	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R331	Open	Normal operation.	AVR1:*
R332	Open	Normal operation.	AVR1:*
R333	Open	Normal operation.	AVR1:*
R334	Open	Normal operation.	AVR1:*
R335	Open	See page 109.	
R336	Open	See page 109.	
R337	Open	No hazard.	AVR1:0
R338	Open	See page 109.	
R339	Open	Normal operation.	AVR1:*
R340	Open	See page 109.	
R341	Open	See page 109.	
R342	Open	See page 109.	
R343	Open	Normal operation.	AVR1:*
R344	Open	See page 109.	
R345	Open	See page 109.	
R346	Open	See page 109.	
R347	Open	Normal operation.	AVR1:*
R348	Open	See page 109.	
R349	Open	See page 109.	
R350	Open	Normal operation.	AVR1:*
R351	Open	See page 109.	
R352	Open	Normal operation.	AVR1:*
R353	Open	Normal operation.	AVR1:*
R354	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R355	Open	Normal operation.	AVR1:*
R356	Open	Normal operation.	AVR1:*
R359	Open	Normal operation.	AVR1:*
R360	Open	Normal operation.	AVR1:*
R361	Open	Normal operation.	AVR1:*
R362	Open	Normal operation.	AVR1:*
R365	Open	No hazard.	AVR1:0
R366	Open	No hazard.	AVR1:0
R367	Open	No hazard.	AVR1:0
R368	Open	See page 109.	
R369	Open	No hazard.	AVR1:0
R370	Open	See page 109.	
R371	Open	No hazard.	AVR1:0
R372	Open	No hazard.	AVR1:0
R373	Open	No hazard.	AVR1:0
R374	Open	No hazard.	AVR1:0
R375	Open	See page 109.	
R376	Open	No hazard.	AVR1:0
R377	Open	Normal operation.	AVR1:*
R378	Open	See page 109.	
R379	Open	See page 109.	
R380	Open	See page 109.	
R381	Open	See page 109.	
R382	Open	See page 109.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R383	Open	See page 109.	
R384	Open	See page 109.	
R385	Open	See page 109.	
R386	Open	See page 110.	
R387	Open	No hazard.	AVR1:0
R389	Open	No hazard.	AVR1:0
R390	Open	No hazard.	AVR1:0
R391	Open	Normal operation.	AVR1:*
R392	Open	Normal operation.	AVR1:*
R403	Open	Normal operation.	AVR1:*
R404	Open	Output voltage decreased.No hazard.	AVR1:decreased
R405	Open	Normal operation.	AVR1:*
R406	Open	Normal operation.	AVR1:*
R407	Open	Normal operation.	AVR1:*
R408	Open	Normal operation.	AVR1:*
R409	Open	Normal operation.	AVR1:*
R410	Open	Normal operation.	AVR1:*
R411	Open	Normal operation.	AVR1:*
R412	Open	No hazard.	AVR1:0
R413	Open	Normal operation.	AVR1:*
R414	Open	See page 110.	
R415	Open	Normal operation.	AVR1:*
R416	Open	Output voltage decreased.No hazard.	AVR1:decreased
R417	Open	Output voltage decreased.No hazard.	AVR1:decreased



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Component	Mode	Comment	Output Voltage (V)
R418	Open	See page 110.	
R419	Open	See page 110.	
R420	Open	See page 110.	
R421	Open	Normal operation.	AVR1:*
R422	Open	Normal operation.	AVR1:*
R423	Open	Normal operation.	AVR1:*
R501	Open	Normal operation.	AVR1:*
R502	Open	Normal operation.	AVR1:*
R503	Open	See page 110.	
R504	Open	See page 110.	
R505	Open	See page 110.	
R506	Open	See page 110.	
R507	Open	See page 110.	
R508	Open	See page 110.	
R509	Open	See page 110.	
R510	Open	See page 110.	
R511	Open	See page 110.	
R512	Open	See page 110.	
R513	Open	Normal operation.	AVR1:*
R514	Open	Normal operation.	AVR1:*
R515	Open	See page 110.	
R516	Open	See page 110.	
R517	Open	See page 110.	
R518	Open	See page 110.	



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Component	Mode	Comment	Output Voltage (V)
R519	Open	See page 110.	
R520	Open	See page 110.	
R521	Open	See page 110.	
R522	Open	See page 110.	
R523	Open	See page 110.	
R524	Open	See page 111.	
R525	Open	Normal operation.	AVR1:*
R526	Open	Normal operation.	AVR1:*
R527	Open	Normal operation.	AVR1:*
R528	Open	Normal operation.	AVR1:*
R529	Open	Normal operation.	AVR1:*
R530	Open	Normal operation.	AVR1:*
R534	Open	See page 111.	
R535	Open	Normal operation.	AVR1:*
R536	Open	See page 111.	
R537	Open	See page 111.	
R538	Open	Normal operation.	AVR1:*
R540	Open	Output voltage decreased.No hazard.	AVR1:decreased
R541	Open	See page 111.	
R542	Open	Normal operation.	AVR1:*
R543	Open	Normal operation.	AVR1:*
R544	Open	Normal operation.	AVR1:*
R545	Open	Normal operation.	AVR1:*
R546	Open	Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R547	Open	Normal operation.	AVR1:*
R548	Open	See page 111.	
R549	Open	Normal operation.	AVR1:*
R550	Open	Normal operation.	AVR1:*
R551	Open	Normal operation.	AVR1:*
R552	Open	Normal operation.	AVR1:*
R553	Open	Normal operation.	AVR1:*
R554	Open	See page 111.	
R555	Open	See page 111.	
R556	Open	See page 111.	
R557	Open	See page 111.	
R558	Open	See page 111.	
R559	Open	See page 111.	
R560	Open	See page 111.	
R603	Open	No hazard.	AVR1:0
R604	Open	Output voltage decreased.No hazard.	AVR1:decreased
R605	Open	Normal operation.	AVR1:*
R607	Open	Output voltage decreased.No hazard.	AVR1:decreased
R608	Open	Normal operation.	AVR1:*
R609	Open	Normal operation.	AVR1:*
R610	Open	Normal operation.	AVR1:*
R611	Open	Normal operation.	AVR1:*
R612	Open	Output voltage decreased.No hazard.	AVR1:decreased
R613	Open	Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R614	Open	No hazard.	AVR1:0
R615	Open	Normal operation.	AVR1:*
R616	Open	No hazard.	AVR1:0
R617	Open	Normal operation.	AVR1:*
R618	Open	Normal operation.	AVR1:*
R619	Open	Normal operation.	AVR1:*
R620	Open	No hazard.	AVR1:0
R624	Open	No hazard.	AVR1:0
R627	Open	Output voltage decreased.No hazard.	AVR1:decreased
R628	Open	Output voltage decreased.No hazard.	AVR1:decreased
R629	Open	Output voltage decreased.No hazard.	AVR1:decreased
R630	Open	Output voltage decreased.No hazard.	AVR1:decreased
R631	Open	Output voltage decreased.No hazard.	AVR1:decreased
R632	Open	No hazard.	AVR1:0
R633	Open	No hazard.	AVR1:0
R635	Open	No hazard.	AVR1:0
R636	Open	No hazard.	AVR1:0
R638	Open	Normal operation.	AVR1:*
R639	Open	Normal operation.	AVR1:*
R640	Open	No hazard.	AVR1:0
R641	Open	Output voltage decreased.No hazard.	AVR1:decreased
R642	Open	Output voltage decreased.No hazard.	AVR1:decreased
R643	Open	Output voltage decreased.No hazard.	AVR1:decreased
R644	Open	Output voltage decreased.No hazard.	AVR1:decreased



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Component	Mode	Comment	Output Voltage (V)
R646	Open	Output voltage decreased.No hazard.	AVR1:decreased
R647	Open	Output voltage decreased.No hazard.	AVR1:decreased
R648	Open	Normal operation.	AVR1:*
R649	Open	No hazard.	AVR1:0
R650	Open	Output voltage decreased.No hazard.	AVR1:decreased
R651	Open	Output voltage decreased.No hazard.	AVR1:decreased
R652	Open	No hazard.	AVR1:0
R653	Open	Normal operation.	AVR1:*
R654	Open	Output voltage decreased.No hazard.	AVR1:decreased
R655	Open	Output voltage decreased.No hazard.	AVR1:decreased
R656	Open	Normal operation.	AVR1:*
R657	Open	Output voltage decreased.No hazard.	AVR1:decreased
R658	Open	Output voltage decreased.No hazard.	AVR1:decreased
R659	Open	Output voltage decreased.No hazard.	AVR1:decreased
R661	Open	Output voltage decreased.No hazard.	AVR1:decreased
R662	Open	Output voltage decreased.No hazard.	AVR1:decreased
R664	Open	Output voltage decreased.No hazard.	AVR1:decreased
R665	Open	Output voltage decreased.No hazard.	AVR1:decreased
R666	Open	No hazard.	AVR1:0
R667	Open	Normal operation.	AVR1:*
R668	Open	No hazard.	AVR1:0
R669	Open	No hazard.	AVR1:0
R670	Open	Normal operation.	AVR1:*
R671	Open	Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R672	Open	No hazard.	AVR1:0
R673	Open	Output voltage decreased.No hazard.	AVR1:decreased
R674	Open	Output voltage decreased.No hazard.	AVR1:decreased
R675	Open	Output voltage decreased.No hazard.	AVR1:decreased
R676	Open	Output voltage decreased.No hazard.	AVR1:decreased
R679	Open	Output voltage decreased.No hazard.	AVR1:decreased
R680	Open	Output voltage decreased.No hazard.	AVR1:decreased
R681	Open	Output voltage decreased.No hazard.	AVR1:decreased
R682	Open	Output voltage decreased.No hazard.	AVR1:decreased
R683	Open	No hazard.	AVR1:0
R684	Open	Normal operation.	AVR1:*
R685	Open	Normal operation.	AVR1:*
R686	Open	Normal operation.	AVR1:*
R687	Open	Normal operation.	AVR1:*
R688	Open	Normal operation.	AVR1:*
R689	Open	Normal operation.	AVR1:*
R690	Open	Normal operation.	AVR1:*
R701	Open	Normal operation.	AVR1:*
R702	Open	Normal operation.	AVR1:*
R703	Open	Normal operation.	AVR1:*
R704	Open	Normal operation.	AVR1:*
R706	Open	No hazard.	AVR1:0
R707	Open	Normal operation.	AVR1:*
R708	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R709	Open	Normal operation.	AVR1:*
R710	Open	Normal operation.	AVR1:*
R711	Open	No hazard.	AVR1:0
R712	Open	No hazard.	AVR1:0
R713	Open	No hazard.	AVR1:0
R714	Open	No hazard.	AVR1:0
R715	Open	Normal operation.	AVR1:*
R716	Open	No hazard.	AVR1:0
R717	Open	No hazard.	AVR1:0
R718	Open	No hazard.	AVR1:0
R719	Open	No hazard.	AVR1:0
R721	Open	No hazard.	AVR1:0
R722	Open	Normal operation.	AVR1:*
R723	Open	Normal operation.	AVR1:*
R724	Open	Normal operation.	AVR1:*
R725	Open	Normal operation.	AVR1:*
R726	Open	Normal operation.	AVR1:*
R727	Open	Normal operation.	AVR1:*
R728	Open	No hazard.	AVR1:0
R729	Open	Normal operation.	AVR1:*
R730	Open	No hazard.	AVR1:0
R731	Open	Output voltage decreased.No hazard.	AVR1:decreased
R733	Open	Normal operation.	AVR1:*
R734	Open	Output voltage decreased.No hazard.	AVR1:decreased



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Component	Mode	Comment	Output Voltage (V)
R735	Open	Normal operation.	AVR1:*
R736	Open	Output voltage decreased.No hazard.	AVR1:decreased
R737	Open	Output voltage decreased.No hazard.	AVR1:decreased
R738	Open	Normal operation.	AVR1:*
R739	Open	Normal operation.	AVR1:*
R740	Open	Output voltage decreased.No hazard.	AVR1:decreased
R741	Open	Normal operation.	AVR1:*
R742	Open	Normal operation.	AVR1:*
R743	Open	Normal operation.	AVR1:*
R744	Open	Normal operation.	AVR1:*
R745	Open	See page 111.	
R746	Open	See page 111.	
R747	Open	No hazard.	AVR1:0
R748	Open	No hazard.	AVR1:0
R749	Open	No hazard.	AVR1:0
R750	Open	Normal operation.	AVR1:*
R751	Open	Normal operation.	AVR1:*
R752	Open	Normal operation.	AVR1:*
R753	Open	Normal operation.	AVR1:*
R754	Open	Normal operation.	AVR1:*
R757	Open	Normal operation.	AVR1:*
R760	Open	Normal operation.	AVR1:*
R761	Open	Normal operation.	AVR1:*
R762	Open	Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R801	Open	Normal operation.	AVR1:*
R802	Open	Normal operation.	AVR1:*
R803	Open	Normal operation.	AVR1:*
R804	Open	Normal operation.	AVR1:*
R805	Open	Normal operation.	AVR1:*
R806	Open	Normal operation.	AVR1:*
R807	Open	Normal operation.	AVR1:*
R808	Open	Normal operation.	AVR1:*
R809	Open	Normal operation.	AVR1:*
R810	Open	No hazard.	AVR1:0
R811	Open	Normal operation.	AVR1:*
R812	Open	Normal operation.	AVR1:*
R813	Open	Normal operation.	AVR1:*
R814	Open	Normal operation.	AVR1:*
R815	Open	Normal operation.	AVR1:*
R816	Open	No hazard.	AVR1:0
R817	Open	No hazard.	AVR1:0
R818	Open	No hazard.	AVR1:0
R819	Open	Normal operation.	AVR1:*
R820	Open	Normal operation.	AVR1:*
R821	Open	Normal operation.	AVR1:*
R822	Open	Normal operation.	AVR1:*
R823	Open	Normal operation.	AVR1:*
R828	Open	Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R829	Open	Normal operation.	AVR1:*
R830	Open	Normal operation.	AVR1:*
SCR101	A:Open	Normal operation.	AVR1:*
	K:Open	Normal operation.	AVR1:*
	G:Open	Normal operation.	AVR1:*
	A-K:Short	No hazard.	AVR1:0
	A-G:Short	No hazard.	AVR1:0
	K-G:Short	Normal operation.	AVR1:*
SCR102	A:Open	Normal operation.	AVR1:*
	K:Open	Normal operation.	AVR1:*
	G:Open	Normal operation.	AVR1:*
	A-K:Short	No hazard.	AVR1:0
	A-G:Short	No hazard.	AVR1:0
	K-G:Short	Normal operation.	AVR1:*
SCR301	A:Open	Normal operation.	AVR1:*
	K:Open	Normal operation.	AVR1:*
	G:Open	Normal operation.	AVR1:*
	A-K:Short	No hazard.	AVR1:0
	A-G:Short	No hazard.	AVR1:0
	K-G:Short	Normal operation.	AVR1:*
SCR302	A:Open	Normal operation.	AVR1:*
	K:Open	Normal operation.	AVR1:*
	G:Open	Normal operation.	AVR1:*
	A-K:Short	No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
SCR302	A-G:Short		No hazard.	AVR1:0
	K-G:Short		Normal operation.	AVR1:*
SS11	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	F11, F13 opened. No hazard.	AVR1:0
		1-3	F11, F13 opened. No hazard.	AVR1:0
		2-4	F11, F13 opened. No hazard.	AVR1:0
		3-4	F11, F13 opened. No hazard.	AVR1:0
SS12	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	F12, F13 opened. No hazard.	AVR1:0
		1-3	F12, F13 opened. No hazard.	AVR1:0
		2-4	F12, F13 opened. No hazard.	AVR1:0
		3-4	F12, F13 opened. No hazard.	AVR1:0
SS101	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
	Short	1-2	F11, F12, F13 opened. No hazard.	AVR1:0
		2-3	F11, F12, F13 opened. No hazard.	AVR1:0
T201	Open	1	No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
T201	Open	3	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		15	See page 111.	
		16	See page 111.	
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
	Short	1-3	See page 111.	
		6-7	See page 111.	
		11-12	See page 111.	
		15-16	See page 111.	
		17-18	See page 111.	
T301	Open	1	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-3	See page 111.	
		3-7	Normal operation.	AVR1:*
		7-8	See page 111.	
T401	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
T401	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	No hazard.	AVR1:0
		7-8	See page 112.	
TH101	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH102	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH103	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH104	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TH105	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TH301	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
TH302	Open		Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
TH302	Short		Normal operation.	AVR1:*
TH303	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TR101	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR102	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	Normal operation.	AVR1:*
		S-G	No hazard.	AVR1:0
		G-D	See page 112.	
TR103	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR105	Open	D	See page 112.	
		S	See page 112.	
		G	See page 112.	



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Component	Mode		Comment	Output Voltage (V)
TR105	Short	D-S	See page 112.	
		S-G	See page 112.	
		G-D	See page 112.	
TR106	Open	D	See page 112.	
		S	See page 112.	
		G	See page 112.	
	Short	D-S	See page 112.	
		S-G	See page 112.	
		G-D	See page 112.	
TR107	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR108	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR109	D:Open		Normal operation.	AVR1:*
	S:Open		No hazard.	AVR1:0
	G:Open		No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
TR109	D-S:Short		No hazard.	AVR1:0
	S-G:Short		Normal operation.	AVR1:*
	G-D:Short		No hazard.	AVR1:0
TR110	D:Open		Normal operation.	AVR1:*
	S:Open		No hazard.	AVR1:0
	G:Open		No hazard.	AVR1:0
	D-S:Short		No hazard.	AVR1:0
	S-G:Short		Normal operation.	AVR1:*
	G-D:Short		No hazard.	AVR1:0
TR201	Open	D	See page 112.	
		S	See page 112.	
		G	See page 112.	
	Short	D-S	See page 112.	
		S-G	See page 112.	
		G-D	See page 112.	
TR202	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR203	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
TR203	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR301	Open	D	See page 112.	
		S	See page 112.	
		G	See page 112.	
	Short	D-S	See page 112.	
		S-G	See page 113.	
		G-D	See page 113.	
TR302	Open	D	See page 113.	
		S	See page 113.	
		G	See page 113.	
	Short	D-S	See page 113.	
		S-G	See page 113.	
		G-D	See page 113.	
TR303	Open	D	See page 113.	
		S	See page 113.	
		G	See page 113.	
	Short	D-S	See page 113.	
		S-G	See page 113.	
		G-D	See page 113.	
TR304	Open	D	See page 113.	
		S	See page 113.	
		G	See page 113.	



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Component	Mode		Comment	Output Voltage (V)
TR304	Short	D-S	See page 113.	
		S-G	See page 113.	
		G-D	See page 113.	
TR305	Open	C	See page 113.	
		E	See page 113.	
		B	See page 113.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR306	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 113.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 114.	
TR307	Open	C	See page 114.	
		E	See page 114.	
		B	See page 114.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR308	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0



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Component	Mode		Comment	Output Voltage (V)
TR308	Short	C-E	See page 114.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 114.	
TR309	Open	C	Normal operation.	AVR1:*
		E	See page 114.	
		B	See page 114.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR310	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 114.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 114.	
TR311	Open	C	See page 114.	
		E	See page 114.	
		B	See page 114.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR312	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR312	Short	C-E	See page 114.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 114.	
TR313	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	Normal operation.	AVR1:*
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR314	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR315	D:Open		Normal operation.	AVR1:*
	S:Open		Normal operation.	AVR1:*
	G:Open		No hazard.	AVR1:0
	D-S:Short		No hazard.	AVR1:0
	S-G:Short		Normal operation.	AVR1:*
	G-D:Short		No hazard.	AVR1:0
TR316	D:Open		Normal operation.	AVR1:*
	S:Open		Normal operation.	AVR1:*
	G:Open		No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR316	D-S:Short		No hazard.	AVR1:0
	S-G:Short		Normal operation.	AVR1:*
	G-D:Short		No hazard.	AVR1:0
TR501	Open	D	See page 114.	
		S	See page 114.	
		G	See page 114.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 114.	
		G-D	See page 114.	
TR502	Open	D	See page 114.	
		S	See page 114.	
		G	See page 114.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 114.	
		G-D	See page 115.	
TR503	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 115.	
		G-D	See page 115.	
TR504	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR504	Short	D-S	No hazard.	AVR1:0
		S-G	See page 115.	
		G-D	See page 115.	
TR505	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 115.	
		G-D	See page 115.	
TR506	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 115.	
		G-D	See page 115.	
TR507	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 116.	
		G-D	See page 116.	
TR508	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR508	Short	D-S	No hazard.	AVR1:0
		S-G	See page 116.	
		G-D	See page 116.	
TR509	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 116.	
		G-D	See page 116.	
TR510	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 116.	
		G-D	See page 116.	
TR511	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 116.	
		G-D	See page 116.	
TR512	Open	D	See page 116.	
		S	See page 116.	
		G	See page 117.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR512	Short	D-S	No hazard.	AVR1:0
		S-G	See page 117.	
		G-D	See page 117.	
TR513	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 117.	
		G-D	See page 117.	
TR514	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 117.	
		G-D	See page 117.	
TR515	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 117.	
		G-D	See page 117.	
TR516	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR516	Short	D-S	No hazard.	AVR1:0
		S-G	See page 117.	
		G-D	See page 117.	
TR517	Open	D	See page 117.	
		S	See page 118.	
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR518	Open	D	See page 118.	
		S	See page 118.	
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR519	Open	D	See page 118.	
		S	See page 118.	
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR520	Open	D	See page 118.	
		S	See page 118.	
		G	See page 118.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR520	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR521	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	See page 118.	
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR522	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR523	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	See page 118.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 118.	
TR524	Open	D	See page 118.	
		S	See page 118.	
		G	See page 119.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR524	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR525	Open	D	See page 119.	
		S	See page 119.	
		G	See page 119.	
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR526	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	See page 119.	
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR527	Open	C	See page 119.	
		E	See page 119.	
		B	See page 119.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR601	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR601	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR602	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR603	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR605	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR606	Open	D	Output voltage decreased.No hazard.	AVR1:decreased
		S	Output voltage decreased.No hazard.	AVR1:decreased
		G	Output voltage decreased.No hazard.	AVR1:decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
TR606	Short	D-S	Output voltage decreased.No hazard.	AVR1:decreased
		S-G	Output voltage decreased.No hazard.	AVR1:decreased
		G-D	Output voltage decreased.No hazard.	AVR1:decreased
TR607	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR608	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR609	Open	C	See page 119.	
		E	See page 119.	
		B	See page 119.	
	Short	C-E	See page 119.	
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR701	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR701	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR702	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR703	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR704	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR705	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
TR705	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR706	Open	C	Output voltage increased.No hazard.	AVR1:increased
		E	Output voltage increased.No hazard.	AVR1:increased
		B	Output voltage increased.No hazard.	AVR1:increased
	Short	C-E	Output voltage decreased.No hazard.	AVR1:decreased
		E-B	Output voltage increased.No hazard.	AVR1:increased
		B-C	Output voltage increased.No hazard.	AVR1:increased
TR707	Open	C	Output voltage decreased.No hazard.	AVR1:decreased
		E	Output voltage decreased.No hazard.	AVR1:decreased
		B	Output voltage decreased.No hazard.	AVR1:decreased
	Short	C-E	Output voltage increased.No hazard.	AVR1:increased
		E-B	Output voltage decreased.No hazard.	AVR1:decreased
		B-C	Output voltage increased.No hazard.	AVR1:increased
TR708	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased.No hazard.	AVR1:decreased
		S-G	Normal operation.	AVR1:*
		G-D	Output voltage decreased.No hazard.	AVR1:decreased
TR709	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR709	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR711	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR712	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR713	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR801	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR801	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR803	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
VR701	Open	brush	Output voltage decreased.No hazard.	AVR1:decreased
			Output voltage decreased.No hazard.	AVR1:decreased
	Short		Output voltage increased.No hazard.	AVR1:increased
VR801	Open	brush	No hazard.	AVR1:0
			No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
ZD101	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD102	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD103	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD104	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD105	Open		Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD105	Short	Normal operation.	AVR1:*
ZD106	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD107	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD301	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD302	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD303	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD304	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD305	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD306	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD307	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
ZD501	Open	See page 119.	
	Short	Normal operation.	AVR1:*
ZD502	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD601	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD601	Short	Normal operation.	AVR1:*
ZD602	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD603	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD604	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD605	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD606	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased
ZD801	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C126	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C127	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C232	Short	No hazard.	AVR1:0
C233	Short	No hazard.	AVR1:0
C301	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C302	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C303	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C304	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C305	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C306	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C307	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C308	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C315	Short	No hazard.	AVR1:0
C316	Short	No hazard.	AVR1:0
C321	Short	No hazard.	AVR1:0
C322	Short	No hazard.	AVR1:0
C335	Short	No hazard.	AVR1:0
C336	Short	No hazard.	AVR1:0
C337	Short	No hazard.	AVR1:0
C338	Short	No hazard.	AVR1:0
C339	Short	No hazard.	AVR1:0
C340	Short	No hazard.	AVR1:0
C341	Short	No hazard.	AVR1:0
C342	Short	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C343	Short	No hazard.	AVR1:0
C344	Short	No hazard.	AVR1:0
C347	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C348	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C349	Short	No hazard.	AVR1:0
C350	Short	No hazard.	AVR1:0
C352	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C353	Short	No hazard.	AVR1:0
C354	Short	No hazard.	AVR1:0
C356	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C357	Short	No hazard.	AVR1:0
C361	Short	No hazard.	AVR1:0
C508	Short	No hazard.	AVR1:0
C509	Short	No hazard.	AVR1:0
C511	Short	No hazard.	AVR1:0
C530	Short	No hazard.	AVR1:0
C531	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C532	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C533	Short	No hazard.	AVR1:0
C534	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C535	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C641	Short	Normal operation.	AVR1:*
C643	Short	Normal operation.	AVR1:*
C701	Short	No hazard.	AVR1:0
C702	Short	No hazard.	AVR1:0
C705	Short	No hazard.	AVR1:0
D103	Open	Normal operation.	AVR1:*
D105	Open	Normal operation.	AVR1:*
D307	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D308	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D310	Short	No hazard.	AVR1:0
D312	Short	No hazard.	AVR1:0
D313	Short	No hazard.	AVR1:0
D314	Short	No hazard.	AVR1:0
D315	Short	No hazard.	AVR1:0
D501	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D502	Open	Normal operation.	AVR1:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D502	Short		Normal operation.	AVR1:*
D503	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D504	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D702	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
IC301	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	No hazard.	AVR1:0
	Short	4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC301	Short	16-17	No hazard.	AVR1:0
		17-18	Normal operation.	AVR1:*
		18-19	Normal operation.	AVR1:*
IC302	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	No hazard.	AVR1:0
	Short	4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	Normal operation.	AVR1:*
		18-19	Normal operation.	AVR1:*
IC303	Open	19	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC303	Open	20	No hazard.	AVR1:0
		21	No hazard.	AVR1:0
		22	No hazard.	AVR1:0
IC501	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		10	No hazard.	AVR1:0
		11	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		8-9	No hazard.	AVR1:0
IC502	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC502	Open	6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
	Short	2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
L301	Short		Normal operation.	AVR1:*
PC201	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		C-E	Output voltage decreased.No hazard.	AVR1:decreased
PC202	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		C-E	Output voltage decreased.No hazard.	AVR1:decreased
PC204	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		Vcc-E	Output voltage decreased.No hazard.	AVR1:decreased
		Vo-E	No hazard.	AVR1:0
PC205	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		Vcc-E	Output voltage decreased.No hazard.	AVR1:decreased
		Vo-E	No hazard.	AVR1:0
PC301	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		C-E	No hazard.	AVR1:0
PC302	Short	A-K	Output voltage decreased.No hazard.	AVR1:decreased
		C-E	Normal operation.	AVR1:*
R114	Open		Normal operation.	AVR1:*
R120	Open		Normal operation.	AVR1:*
R260	Open		No hazard.	AVR1:0
R261	Open		No hazard.	AVR1:0
R262	Open		No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R263	Open	No hazard.	AVR1:0
R335	Open	No hazard.	AVR1:0
R336	Open	No hazard.	AVR1:0
R338	Open	No hazard.	AVR1:0
R340	Open	No hazard.	AVR1:0
R341	Open	No hazard.	AVR1:0
R342	Open	No hazard.	AVR1:0
R344	Open	No hazard.	AVR1:0
R345	Open	No hazard.	AVR1:0
R346	Open	No hazard.	AVR1:0
R348	Open	No hazard.	AVR1:0
R349	Open	No hazard.	AVR1:0
R351	Open	No hazard.	AVR1:0
R368	Open	No hazard.	AVR1:0
R370	Open	No hazard.	AVR1:0
R375	Open	No hazard.	AVR1:0
R378	Open	Normal operation.	AVR1:*
R379	Open	Normal operation.	AVR1:*
R380	Open	Normal operation.	AVR1:*
R381	Open	No hazard.	AVR1:0
R382	Open	No hazard.	AVR1:0
R383	Open	No hazard.	AVR1:0
R384	Open	No hazard.	AVR1:0
R385	Open	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R386	Open	No hazard.	AVR1:0
R414	Open	No hazard.	AVR1:0
R418	Open	Normal operation.	AVR1:*
R419	Open	Normal operation.	AVR1:*
R420	Open	No hazard.	AVR1:0
R503	Open	No hazard.	AVR1:0
R504	Open	No hazard.	AVR1:0
R505	Open	No hazard.	AVR1:0
R506	Open	No hazard.	AVR1:0
R507	Open	No hazard.	AVR1:0
R508	Open	No hazard.	AVR1:0
R509	Open	No hazard.	AVR1:0
R510	Open	No hazard.	AVR1:0
R511	Open	No hazard.	AVR1:0
R512	Open	No hazard.	AVR1:0
R515	Open	No hazard.	AVR1:0
R516	Open	No hazard.	AVR1:0
R517	Open	No hazard.	AVR1:0
R518	Open	No hazard.	AVR1:0
R519	Open	No hazard.	AVR1:0
R520	Open	No hazard.	AVR1:0
R521	Open	No hazard.	AVR1:0
R522	Open	No hazard.	AVR1:0
R523	Open	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R524	Open		No hazard.	AVR1:0
R534	Open		No hazard.	AVR1:0
R536	Open		No hazard.	AVR1:0
R537	Open		No hazard.	AVR1:0
R541	Open		No hazard.	AVR1:0
R548	Open		No hazard.	AVR1:0
R554	Open		No hazard.	AVR1:0
R555	Open		No hazard.	AVR1:0
R556	Open		No hazard.	AVR1:0
R557	Open		No hazard.	AVR1:0
R558	Open		No hazard.	AVR1:0
R559	Open		No hazard.	AVR1:0
R560	Open		No hazard.	AVR1:0
R745	Open		No hazard.	AVR1:0
R746	Open		No hazard.	AVR1:0
T201	Open	15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
	Short	1-3	Output voltage decreased.No hazard.	AVR1:decreased
		6-7	Output voltage decreased.No hazard.	AVR1:decreased
		11-12	Output voltage decreased.No hazard.	AVR1:decreased
		15-16	Output voltage decreased.No hazard.	AVR1:decreased
		17-18	Output voltage decreased.No hazard.	AVR1:decreased
T301	Short	1-3	F11, F12, F13 opened.No hazard.	AVR1:0
		7-8	F11, F12, F13 opened.No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T401	Short	7-8	No hazard.	AVR1:0
TR102	Short	G-D	Normal operation.	AVR1:*
TR105	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR106	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR301	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR301	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR302	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR303	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR304	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR305	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR306	Short	C-E	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR306	Short	B-C	No hazard.	AVR1:0
TR307	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR308	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR309	Open	E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR310	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR311	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR312	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR501	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR502	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR502	Short	G-D	No hazard.	AVR1:0
TR503	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR504	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR505	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR506	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR507	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR507	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR508	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR509	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR510	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR511	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR512	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR512	Open	G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR513	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR514	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR515	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR516	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR517	Open	D	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR517	Open	S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR518	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR519	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR520	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR521	Short	D-S	Normal operation.	AVR1:*
TR523	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR524	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR524	Open	G	No hazard.	AVR1:0
TR525	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
TR526	Short	D-S	Normal operation.	AVR1:*
TR527	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR609	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
ZD501	Open		No hazard.	AVR1:0