

The Rale System: Output Files

The Rale System programs create output files in a text format. This allows you to Save and/or Print the output that you view on the screen. Some users use the output text file with their own programs to create their production documentation.

The following pages contain the output file that you saw in the Program Demonstration on this CD-ROM.

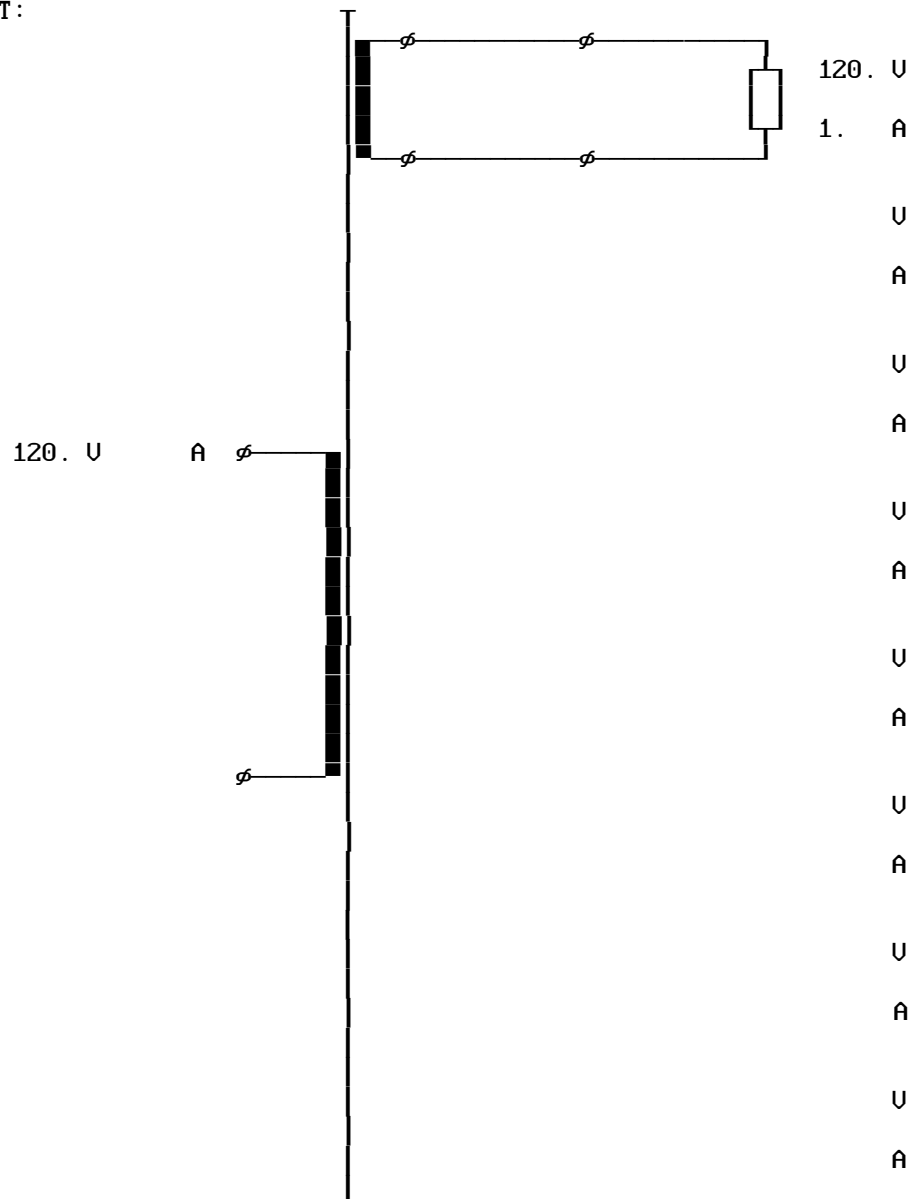
We have formatted the output file information as an Acrobat PDF file to make it easier to view and print from this CD-ROM. The actual output files created by the programs are plain text files.

#*0	DIAGNOSE	Page 0
Name	:1 X EI 87/(2_1/8) 694-0	
Steel	—:M45 Gauge 24 / 0.0250"	
Number of Sections	—:1	
max.Cu-Fill Factor	٪: 82.2	
max. parallel Wires	:1	
Induction on Load	T:1.459	
Max. Induction	T:1.559	
Max.Cu-Temp.rise on load	°K:76.7	
Max.Cu-Temp.rise no-load	°K:42.3	
Regulation	٪:9.	
I^Inrush/I^nom-Factor	*:19.	
Input Current No-Load	٪:60.3	

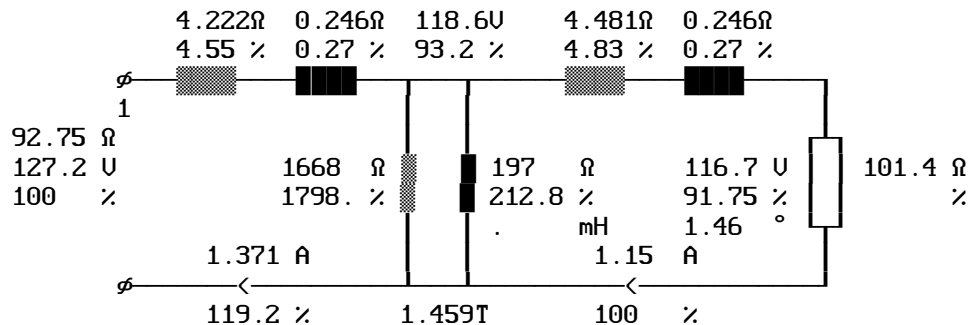
PRIMARY	U(V)	I(A)	SECOND.	1---	2---	3---	4---	5---	6---	7---	8---
Circuit-:1	120.		Circuit-:11								
Overvlt*:1.06	.		Volta. U:120.								
Wire :0.0	.		Curre. A:1.								
I/L. mil:0.	.		Wire :0								
I/E. mil:12.	.		I/L mil:0.0								
Formfac.:1.11	.		I/E mil:4.0								
Fre.Hz:60	.										
dI/Io :100	.										

Regulat. %:50.0	Steel	-:17	Cooling *:1.00	Bobbin	-:1
Udiode U:0.8	Induction T:1.46		Force ft/s:0.00	P/S-Order	-:1
dUdiode U:.1	Remanence *:0.35		Bracket -:1	Rac/Rdc	*:1.05
Ripple %:5.	W/kg *:1.00		Radiator -:0	Space	*:0.90
Tmp. Amb. °C:40	UAr/kg *:1.00		Chassis -:1.00	Vertical	-:1
Tmp.rise °K:75	Gap *:1.00		Channel in:0.00	Horizontal	-:1
Time 1 Min:30.0	Annealed -:1		Cu-Surface*:1.00	Impregnat.	-:2
Load 1 *:1.0	Stacking *:1.00		Rth-varni.*:1.00	Spread	%:0
Time 2 Min:30.0	Hole -:1		Rth-comp. *:2.00	Selection	-:0
Load 2 *:1.0	Assembly -:1		Case -:0	Criterion	-:0

CIRCUIT:



NOMINAL OPERATION at Temperature °C 116.6 and Overvoltage 1.06
 Output Power on Load W:134.2 Output Power of Transfor. W:134.2
 Cu Losses W:13.87 Fe-Losses active W:8.9
 Short-Circuit-Volt. cold %:6.78 Regulation %:8.99
 Instantaneous pow. .5/95& W:322.7 Efficiency of Transformer %:85.5
 dT Fe average Surface °K:66. dT primary °K:76.7
 dT Case aver. Surface °K:.. dT secondary °K:76.6



DUTY CYCLE OPERATION at Amb.Temperature °C 40. and Overvoltage 1.06
 dT Fe average Surface °K:66. dT primary °K:76.7
 dT Gehäuse av. Surface °K:.. dT secondary °K:76.6

NO LOAD OPERATION at Amb.Temperature °C 40. and Overvoltage 1.06
 Losses active W:12.32 Losses reactive VAr:104.4
 Current factor %:60.29 Induction T:1.559
 dT Fe average Surface °K:41.7 dT primary °K:42.3
 dT Gehäuse av. Surface °K:..

SHORT-CIRCUIT OPERATION at Amb.Temperature °C 40. and Overvoltage 1.06
 Losses active W:2564. Losses reactive VAr:202.8
 Current factor cold %:1474. Induction T:.805
 dT Fe average Surface °K:858.5 dT primary °K:1163.
 dT Gehäuse av. Surface °K:.. dT secondary °K:1174.

PRIMARY (Tap:1) 1---- 2---- 3---- 4---- 5---- 6---- 7---- 8----
 Voltage Input/Output U:127.2
 Out. Voltage no load U:
 Current Input/Output A:1.371
 Current in segment A:1.371
 Icc-Current cold A:20.22
 Io -Current A:0.827
 Inrush Current peak ^A:36.67
 Inrush Current rms A:16.09
 Cu-Losses W:7.9
 Resistance cold Ω :3.044
 Reactance Ω :.2465
 Eddy-Current Factor :1.

SECONDARY 1---- 2---- 3---- 4---- 5---- 6---- 7---- 8----
 Output Voltage U:126.9
 Output Current A:1.058
 Out. Voltage no load U:137.7
 Sec. Voltage U:126.9
 Sec. Current A:1.058
 Sec. Voltage cold U:129.8
 Sec. Load Ω :120.
 Icc cold A:18.56
 Cu-Losses warm W:5.927
 Resistance cold Ω :3.822
 Reactance Ω :.2915
 Eddy-Current Factor :1.
 Capacitor mF:..