

Generator Specifications

kW Rating:	1875
Power Factor:	0.80
kVA Rating:	2344
Duty (C):	130
Frame:	828
RPM:	1500
Volts:	415
Bearings:	2
Conn.	STAR

Frequency	50
Insulation	H
Poles	4
Excitation	PM
Winding Type	Form
Leads	6
Pitch	0.6667
Phases	3
Amperage	3261

ENGR	LAT
Date	1/17/2008

I. Efficiency Data

per unit	kW	%
0.25	468.8	93.4
0.50	937.5	96.0
0.75	1406.3	96.6
1.00	1875.0	96.8
0.00	N/A	N/A

II. Reactance Data

	per unit	Ohms
X''d	0.110	0.008
X''q	0.103	0.008
X'd	0.176	0.013
Xd	2.489	0.183
Xq	1.179	0.087
X2	0.108	0.008
X0	0.007	0.001

III. Time Constants

T'do	6.931	Seconds
T'd	0.489	Seconds
T''do	0.014	Seconds
T''d	0.011	Seconds
T''qo	0.011	Seconds
T''q	0.009	Seconds
Ta	0.050	Seconds
Te	0.223	Seconds

IV. Miscellaneous Info.

SCR	0.64	
stator, line-line	0.001	ohms
field	1.179	ohms
Overspeed	180	% of synchronous speed
BIL	3235	
X/R Ratio	12.95	
Heat Rej. (FL)	211674	BTU/HR

V. Mechanical Data

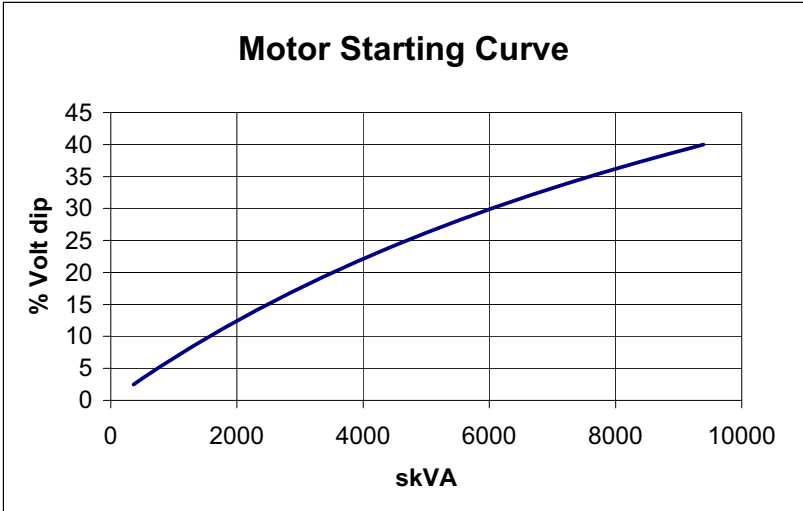
Generator Wght.	0	lbs
Field Weight	0	lbs
Center of Grav.	0.00	inches

VI. Exciter Data

NL Exciter Amps	2.89	Amps
NL Exciter Volts	11.0	Volts
FL Exciter Amps	8.53	Amps
FL Exciter Volts	38.7	Volts
Exc. Field Res.	3.80	ohms
Exc. Rotor Res.	0.16	ohms

VII. Motor Starting

% Voltage Dip	skVA
2.5	361
5.0	742
7.5	1143
10.0	1566
12.5	2013
15.0	2487
17.5	2989
20.0	3523
22.5	4091
25.0	4697
27.5	5345
30.0	6039
32.5	6785
35.0	7588
37.5	8455
40.0	9395



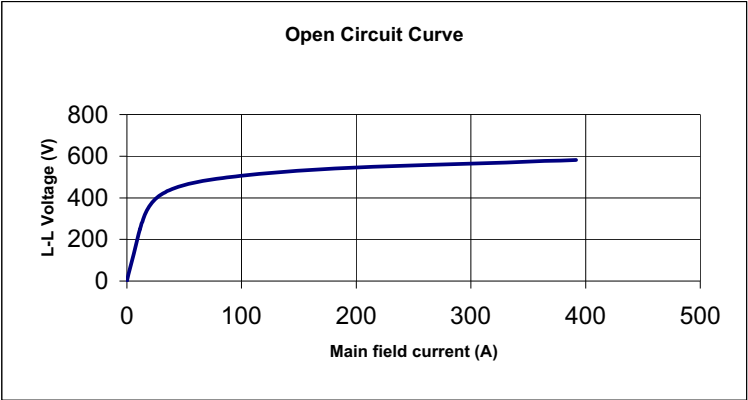
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<b>Conn.</b>	STAR

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<b>Poles</b>	4
<b>Excitation</b>	PM
<b>Winding Type</b>	Form
<b>Leads</b>	6
<b>Pitch</b>	0.6667
<b>Phases</b>	3
<b>Amperage</b>	3261

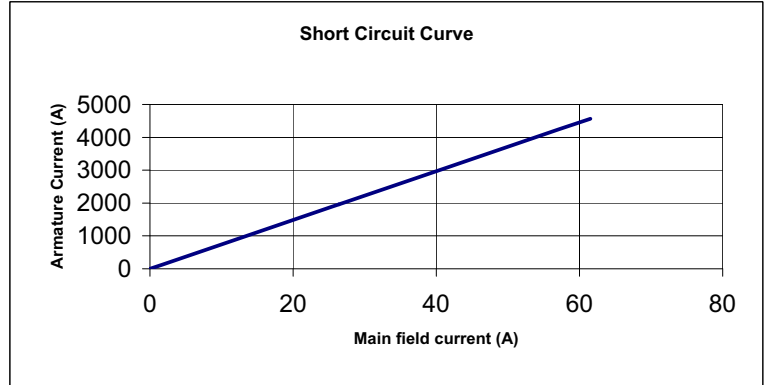
## VIII. Open Circuit Curve

Main Field Current	Line - Line Voltage
0.0	0
11.5	249
13.8	291
16.8	332
21.5	374
30.0	415
47.7	457
87.1	498
178.1	540
391.6	581



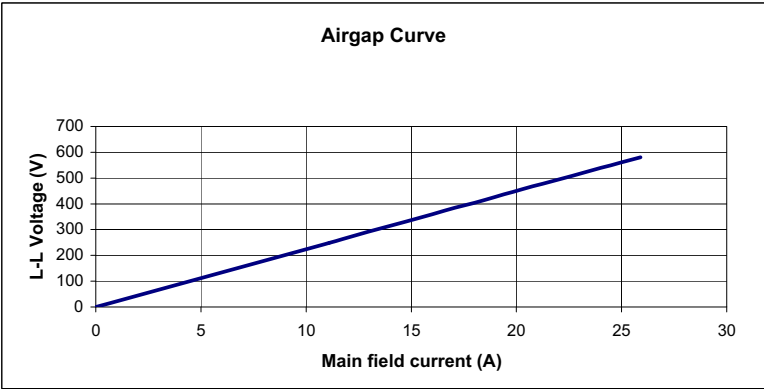
## IX. Short Circuit Curve

Main Field Current	Armature Current
0.0	0
26.4	1956
30.8	2282
35.2	2609
39.5	2935
43.9	3261
48.3	3587
52.7	3913
57.1	4239
61.5	4565



## X. Air Gap Curve

Main Field Current	Line - Line Voltage
0.0	0
11.1	249
12.9	291
14.8	332
16.6	374
18.5	415
20.3	457
22.2	498
24.0	540
25.9	581



## XI. Fault Current Info.

Short Circuit Current	Instantaneous Symmetrical Fault Current		Instantaneous Asymmetrical Fault Current	
	P.U.	Amps	P.U.	Amps
3-PH	9.09	29645.45	15.75	51347.43
L-L	7.96	25953.25	13.78	44952.34
L-N	13.33	43480.00	23.09	75309.57