

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL
Serial No. : 3006744550-10
Document No. : 3006744550-10_2000HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 2000
Service Factor : 1.15
Voltage : 2300 / 4000
Number of Phases : 3
Frequency, hertz : 60
Ambient, °C : 40
Enclosure : WP11
Synchronous Speed, RPM : 3600
Percent Starting Voltage : 90
Maximum Elevation (ft) : 3300

FRAME DATA

Frame : 5812S
Type : CG11
Rotor Construction : Fabricated Copper Bar
Load Inertia (wk2), lb-ft2 : -
Rotor Inertia (wk2), lb-ft2 : 225
Rotor Weight, lbs : 1449
Motor Weight, lbs : 8300
Stator Temp. Rise : 80 by RES @ 1SF
Sound Pressure Level : 82dBA @ 3ft, unloaded
Insulation Class : F-VPI
Bearing Type : Sleeve

PERFORMANCE DATA

Full Load Speed, RPM :	3575	Full Load Torque, lb-ft :	2938
Current, Amps :	422 / 244	Starting Torque, %FLT :	66
Locked Rotor Current, %FLA :	597	Breakdown Torque, %FLT :	212
kVA/Hp :	5.04	NEMA Design :	-
kVA Code :	F		

	0.25	0.50	0.75	Full	1.15	No	Locked
	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Rotor</u>
Percent Efficiency :	95.0	96.2	96.1	95.7	95.3	N/A	N/A
Percent Power Factor :	84.4	91.8	92.8	92.3	91.5	7.4	15.1
Current, Amps :	67.1	121.9	181.1	243.8	284.0	30.7	1455
Current, Amps :	116.3	211.2	313.7	422.0	491.9	53.2	2521
	<u>100</u>	<u>90</u>	<u>% Voltage</u>	<u>RTD Settings (°C):</u>	<u>Alarm</u>	<u>Shutdown</u>	
Safe Stalled Time, Motor Hot :	10	14	Seconds	<u>Stator:</u>	155	170	
Safe Stalled Time, Motor Cold :	12	17	Seconds	<u>Bearings:</u>	100	105	
Acceleration Time :	-	-	Seconds				
Time Constants :	2.999	Seconds Open Circuit					
	0.073	Seconds Short Circuit (AC)					
X/R Ratio :	14.552						

Prepared by CNT on 10/05/17

Please Note : 1. Guaranteed values are indicated in (GUAR).
2. Suitable for Class 1, GRP B C D , Div 2, Temp. 200°C, Oper. Code T3.