INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL - YOUNGSVILLE NC
Serial No. : 3006182684-10
Document No. : 3006182684-10_4000HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	4000
Service Factor :	1.00
Voltage :	2300 / 4000
Number of Phases :	3
Frequency, hertz :	60
Ambient, °C :	40
Enclosure :	WPII
Synchronous Speed, RPM :	1800
Percent Starting Voltage :	90
Maximum Elevation (ft) :	3300

FRAME DATA

Frame :	6813
Type :	CGII
Rotor Construction :	Fabricated Copper Bar
Load Inertia (wk2), lb-ft2 :	-
Rotor Inertia (wk2), lb-ft2 :	1343
Rotor Weight, lbs :	3577
Motor Weight, lbs :	14700
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 :	1789	Full Load Torque, lb-ft :	11743	
Current, Amps :	873 / 504	Starting Torque, %FLT :	82	
Locked Rotor Current, %FLA :	615	Breakdown Torque, %FLT :	209	
kVA/Hp :	5.37	NEMA Design :	-	
kVA Code :	F			

	0.25 Load	0.50 Load	0.75 Load	Full Load	No Load	Locked Rotor
Percent Efficiency :	94.8	96.4	96.5	96.3	N/A	N/A
Percent Power Factor :	72.4	85.9	88.7	88.7	5.1	14.5
Current, Amps :	156.9	260.1	377.4	504.2	96.4	3101
Current, Amps :	271.7	450.4	653.6	873.0	166.9	5371

	100	90	% Voltage	RTD Settings (°C):	Alarm	Shutdown
Safe Stalled Time, Motor Hot :	9	12	Seconds	Stator:	155	170
Safe Stalled Time, Motor Cold :	11	15	Seconds	Bearings:	100	105
Acceleration Time :	-	-	Seconds			

Time Constants :	2.122	Seconds Open Circuit
	0.073	Seconds Short Circuit (AC)
X/R Ratio :	19.846	

Prepared by M NORDMEYER on 10/11/16

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