INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical
Serial No. : 3006895085-10
Document No. : 3006895085-10_4000HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	4000
Service Factor :	1.15
Voltage :	2300 / 4000
Number of Phases :	3
Frequency, hertz :	60
Ambient, °C :	40
Enclosure :	WPII
Synchronous Speed, RPM :	3600
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 :	501
Rotor Weight, lbs :	2214
Motor Weight, lbs :	13900
Stator Temp. Rise :	80 by RES @ 1SF
Sound Pressure Level :	83dBA @ 3ft, unloaded
Insulation Class :	F-VPI
Bearing Type :	Sleeve

PERFORMANCE DATA

Full Load Speed, RPM :	3581	Full Load Torque, lb-ft :	5867	
Current, Amps :	859 / 496	Starting Torque, %FLT :	71	
Locked Rotor Current, %FLA :	626	Breakdown Torque, %FLT :	218	
kVA/Hp :	5.38	NEMA Design :	-	
kVA Code :	F			

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	93.4	95.7	96.1	96.0	95.8	N/A	N/A
Percent Power Factor :	72.9	86.7	89.9	90.5	90.2	6.7	14.2
Current, Amps :	158.1	259.5	373.9	495.7	573.2	97.7	3103
Current, Amps :	273.9	449.5	647.6	859.0	992.8	169.2	5375

	100	90	% Voltage	RTD Settings (°C):	Alarm	Shutdown
Safe Stalled Time, Motor Hot :	7	8	Seconds	Stator:	155	170
Safe Stalled Time, Motor Cold :	8	10	Seconds	Bearings:	100	105
Acceleration Time :	-	-	Seconds			

Time Constants : 2.491 Seconds Open Circuit
0.091 Seconds Short Circuit (AC)
X/R Ratio : 18.084

Prepared by JBD on 12/06/17

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