INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical
Serial No. : 3006926945-10, -20
Document No. : 3006926945-10,20_1500HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	1500
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 :	5810S
Type :	CGII
Rotor Construction :	Fabricated Copper Bar
Load Inertia (wk2), lb-ft2 :	-
Rotor Inertia (wk2), lb-ft2 :	176.6
Rotor Weight, lbs :	1169
Motor Weight, lbs :	6450
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 :	3576	Full Load Torque, lb-ft :	2203
Current, Amps :	322 / 186	Starting Torque, %FLT :	81
Locked Rotor Current, %FLA :	641	Breakdown Torque, %FLT :	230
kVA/Hp :	5.50	kVA Code :	F

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	93.3	95.5	95.8	95.5	95.3	N/A	N/A
Percent Power Factor :	75.0	87.8	90.6	91.0	90.6	7.3	16.0
Wye Current, Amps :	57.7	96.3	139.6	185.8	215.0	34.2	1190
Delta Current, Amps :	99.9	166.9	241.8	321.8	372.4	59.3	2062

	100	90	% Voltage	RTD Settings (°C):	Alarm	Shutdown
Safe Stalled Time, Motor Hot :	7	9	Seconds	Stator:	155	170
Safe Stalled Time, Motor Cold :	8	11	Seconds	Bearings:	100	105
Acceleration Time :	-	-	Seconds			

Time Constants : 2.103 Seconds Open Circuit
0.070 Seconds Short Circuit (AC)
X/R Ratio : 16.603

Prepared by I Niggebrugge on 12/19/17

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.