INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical - YoungsvilleNC
Serial No. : 3006306959-10, -20
Document No. : 3006306959-10,20_1750HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	1750
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 :	187.5
Rotor Weight, lbs :	1216
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 :	3577	Full Load Torque, lb-ft :	2569	
Current, Amps :	373 / 215	Starting Torque, %FLT :	71	
Locked Rotor Current, %FLA :	662	Breakdown Torque, %FLT :	241	
kVA/Hp :	5.65	NEMA Design :	-	
kVA Code :	G			

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	93.9	95.8	96.0	95.7	95.5	N/A	N/A
Percent Power Factor :	76.2	88.5	91.1	91.4	91.1	6.8	14.4
Wye Current, Amps :	65.8	111.1	161.6	215.4	249.1	38.2	1426
Delta Current, Amps :	114.0	192.5	279.9	373.0	431.5	66.1	2470

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

Time Constants :	2.328	Seconds Open Circuit
	0.072	Seconds Short Circuit (AC)
X/R Ratio :	16.605	

Prepared by I Niggebrugge on 12/15/16

Please Note : 1. All values are typical.
2. Guaranteed values are indicated in (GUAR).