

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical
Serial No. : 3006926945-10, -20
Document No. : 3006926945-10,20_1750HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 1750
Service Factor : 1.00
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 : 3571
Current, Amps : 378 / 218
Locked Rotor Current, %FLA : 546
kVA/Hp : 4.71

Full Load Torque, lb-ft : 2574
Starting Torque, %FLT : 69
Breakdown Torque, %FLT : 197
kVA Code : E

	0.25	0.50	0.75	Full	No	Locked
	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Rotor</u>
Percent Efficiency :	94.0	95.7	95.8	95.4	N/A	N/A
Percent Power Factor :	78.8	89.2	91.0	90.6	7.3	16.0
Wye Current, Amps :	63.6	110.4	162.1	218.0	34.2	1190
Delta Current, Amps :	110.2	191.2	280.8	378.0	59.3	2062
	<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 :	7	9	Seconds	<u>Stator:</u>	155	170
Safe Stalled Time, Motor Cold :	8	11	Seconds	<u>Bearings:</u>	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.