

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical - YoungsvilleNC
Serial No. : 3006306959-10, -20
Document No. : 3006306959-10,20_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 : 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 :	3581	Full Load Torque, lb-ft :	2200
Current, Amps :	320 / 185	Starting Torque, %FLT :	84
Locked Rotor Current, %FLA :	773	Breakdown Torque, %FLT :	283
kVA/Hp :	6.59	NEMA Design :	-
kVA Code :	H		

	0.25 <u>Load</u>	0.50 <u>Load</u>	0.75 <u>Load</u>	Full <u>Load</u>	1.15 <u>Load</u>	No <u>Load</u>	Locked <u>Rotor</u>
Percent Efficiency :	93.1	95.4	95.8	95.7	95.6	N/A	N/A
Percent Power Factor :	72.0	86.7	90.4	91.4	91.4	6.8	14.4
Wye Current, Amps :	60.2	97.6	139.9	184.7	212.6	38.2	1427
Delta Current, Amps :	104.3	169.1	242.3	320.0	368.2	66.1	2472

	<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 :	9	11	Seconds	<u>Stator:</u>	155	170
Safe Stalled Time, Motor Cold :	11	15	Seconds	<u>Bearings:</u>	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).