

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical
Serial No. : 3006322266-10,-20
Document No. : 3006322266-10,20_500HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 500
Service Factor : 1.15
Voltage : 2300 / 4000
Number of Phases : 3
Frequency, hertz : 60
Ambient, °C : 40
Enclosure : TEFC
Synchronous Speed, RPM : 1800
Percent Starting Voltage : 90
Maximum Elevation (ft) : 3300

FRAME DATA

Frame : 5011
Type : CMZ
Rotor Construction : Aluminum Die Cast
Load Inertia (wk2), lb-ft2 : -
Rotor Inertia (wk2), lb-ft2 : 121
Rotor Weight, lbs : 919
Motor Weight, lbs : 4775
Stator Temp. Rise : 80 by RES @ 1SF
Sound Pressure Level : 85dBA @ 3ft, unloaded
Insulation Class : F-VPI
Bearing Type : Anti-Friction

PERFORMANCE DATA

Full Load Speed, RPM :	1789	Full Load Torque, lb-ft :	1468
Current, Amps :	127 / 74	Starting Torque, %FLT :	118
Locked Rotor Current, %FLA :	696	Breakdown Torque, %FLT :	246
kVA/HP :	7.09	NEMA Design :	A
kVA Code :	H		

	0.25	0.50	0.75	Full	1.15	No	Locked
	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Load</u>	<u>Rotor</u>
Percent Efficiency :	88.6	92.9	94.0	94.2	94.2	N/A	N/A
Percent Power Factor :	41.0	63.0	73.1	77.7	79.0	5.4	17.1
Current, Amps :	37.1	46.0	58.8	73.6	83.2	29.4	512
Current, Amps :	64.2	79.7	101.8	127.0	144.1	51.0	887

	<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 :	26	34	Seconds	<u>Stator:</u>	155	170
Safe Stalled Time, Motor Cold :	30	38	Seconds			
Acceleration Time :	-	-	Seconds			

Time Constants : 0.936 Seconds Open Circuit
0.064 Seconds Short Circuit (AC)
X/R Ratio : 20.100

Prepared by ZJM on 12/16/16

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