

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL
Serial No. : 3006938519-10
Document No. : 3006938519-10_800HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 800
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 : 508S
Type : CGII
Rotor Construction : Aluminum Die Cast
Load Inertia (wk2), lb-ft2 : -
Rotor Inertia (wk2), lb-ft2 : 52
Rotor Weight, lbs : 519
Motor Weight, lbs : 4200
Stator Temp. Rise : 80 by RES @ 1SF
Sound Pressure Level : 81dBA @ 3ft, unloaded
Insulation Class : F-VPI
Bearing Type : Sleeve

PERFORMANCE DATA

Full Load Speed, RPM : 3553	Full Load Torque, lb-ft : 1182
Current, Amps : 177 / 102	Starting Torque, %FLT : 71
Locked Rotor Current, %FLA : 500	Breakdown Torque, %FLT : 185
kVA/Hp : 4.42	NEMA Design : -
kVA Code : D	

	0.25 <u>Load</u>	0.50 <u>Load</u>	0.75 <u>Load</u>	Full <u>Load</u>	No <u>Load</u>	Locked <u>Rotor</u>
Percent Efficiency :	92.9	94.8	94.8	94.1	N/A	N/A
Percent Power Factor :	75.0	87.4	89.8	89.7	7.4	19.7
Current, Amps :	30.9	52.0	75.9	102.0	18.2	510
Current, Amps :	53.5	90.0	131.4	176.6	31.5	884
	<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 :	11	15	Seconds	<u>Stator:</u>	155	170
Safe Stalled Time, Motor Cold :	14	17	Seconds	<u>Bearings:</u>	100	105
Acceleration Time :	-	-	Seconds			
Time Constants :	1.141 Seconds Open Circuit					
	0.047 Seconds Short Circuit (AC)					
X/R Ratio :	11.119					

Prepared by NMS on 01/10/18

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.