

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL
Serial No. : 3006938519-10
Document No. : 3006938519-10_600HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 600
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 : 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 :	3566	Full Load Torque, lb-ft :	884
Current, Amps :	132 / 76	Starting Torque, %FLT :	95
Locked Rotor Current, %FLA :	670	Breakdown Torque, %FLT :	247
kVA/Hp :	5.89	NEMA Design :	-
kVA Code :	G		

	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 :	91.3	94.2	94.6	94.4	94.1	N/A	N/A
Percent Power Factor :	66.7	83.6	88.4	89.8	90.0	7.4	19.7
Current, Amps :	26.5	41.0	57.9	76.1	87.7	18.2	510
Current, Amps :	45.9	71.0	100.2	131.9	151.9	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.