

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRIC
Serial No. : 3006891283-10
Document No. : 3006891283-10_800HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower : 800
Service Factor : 1.15
Voltage : 2300 / 4000
Number of Phases : 3
Frequency, hertz : 60
Ambient, °C : 40
Enclosure : WP11
Synchronous Speed, RPM : 3600
Percent Starting Voltage : 90
Maximum Elevation (ft) : 3300

FRAME DATA

Frame : 5010Z
Type : CG11
Rotor Construction : Aluminum Die Cast
Load Inertia (wk2), lb-ft2 : -
Rotor Inertia (wk2), lb-ft2 : 56
Rotor Weight, lbs : 581
Motor Weight, lbs : 5150
Stator Temp. Rise : 60 by RES @ 1SF
Sound Pressure Level : 80dBA @ 3ft, unloaded
Insulation Class : F-VPI
Bearing Type : Sleeve

PERFORMANCE DATA

Full Load Speed, RPM :	3559	Full Load Torque, lb-ft :				1181	
Current, Amps :	176 / 102	Starting Torque, %FLT :				78	
Locked Rotor Current, %FLA :	557	Breakdown Torque, %FLT :				207	
kVA/Hp :	4.91	NEMA Design :				-	
kVA Code :	E						
	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 :	92.6	94.8	95.0	94.6	94.2	N/A	N/A
Percent Power Factor :	70.7	85.4	89.0	89.5	89.2	6.9	17.9
Current, Amps :	32.9	53.2	76.4	101.7	117.9	21.1	567
Current, Amps :	57.0	92.1	132.3	176.0	204.2	36.5	982
	<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 :	10	14	Seconds	<u>Stator:</u>		155	170
Safe Stalled Time, Motor Cold :	12	16	Seconds	<u>Bearings:</u>		100	105
Acceleration Time :	-	-	Seconds				
Time Constants :	1.102	Seconds Open Circuit					
	0.047	Seconds Short Circuit (AC)					
X/R Ratio :	14.334						

Prepared by CNT on 12/04/17

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