

INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRIC
Serial No. : 3006891283-10
Document No. : 3006891283-10_600HP_DS
Revision : AB

SPECIFIED REQUIREMENTS

Horsepower : 600
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 : 5010S
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 :	3570	Full Load Torque, lb-ft :	883				
Current, Amps :	133 / 77	Starting Torque, %FLT :	103				
Locked Rotor Current, %FLA :	738	Breakdown Torque, %FLT :	277				
kVA/Hp :	6.53	NEMA Design :	-				
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 :	90.8	94.0	94.7	94.7	94.5	N/A	N/A
Percent Power Factor :	61.7	80.8	86.8	89.0	89.4	6.9	17.9
Current, Amps :	28.8	42.5	58.9	76.7	87.9	21.1	566
Current, Amps :	49.9	73.7	102.1	133.0	152.2	36.5	980
	<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 12/12/17

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.