INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL
Serial No. : 3006187718-40
Document No. : 3006187718-40_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 :	WPII
Synchronous Speed, RPM :	3600
Percent Starting Voltage :	90
Elevation (ft) :	3300

FRAME DATA

Frame :	5010S
Type :	CGII
Rotor Construction :	Aluminum Die Cast
Load Inertia (wk^2), $lb\text{-}ft^2$:	-
Rotor Inertia (wk^2), $lb\text{-}ft^2$:	61
Rotor Weight, lbs :	614
Motor Weight, lbs :	5150
Stator Temp. Rise :	80 by RES @ 1SF
Sound Pressure Level :	80dBA @ 3ft, unloaded
Insulation Class :	F-VPI
Bearing Type :	Sleeve

PERFORMANCE DATA

Full Load Speed, RPM :	3569	Full Load Torque, lb-ft :	1177	
Current, Amps :	180 / 104	Starting Torque, %FLT :	109	
Locked Rotor Current, %FLA :	737	Breakdown Torque, %FLT :	276	
kVA/Hp :	6.63	NEMA Design :	-	
kVA Code :	H			

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	90.6	93.9	94.6	94.5	94.4	N/A	N/A
Percent Power Factor :	57.6	78.0	85.0	87.7	88.3	6.3	18.8
Current, Amps :	41.3	58.8	80.3	103.9	118.8	31.5	766
Current, Amps :	71.5	101.9	139.2	180.0	205.8	54.6	1327

	100	90	% Voltage	RTD Settings (°C):	Alarm	Shutdown
Safe Stalled Time, Motor Hot :	8	10	Seconds	Stator:	155	170
Safe Stalled Time, Motor Cold :	9	12	Seconds	Bearings:	100	105
Acceleration Time :	-	-	Seconds			

Time Constants :	0.962	Seconds Open Circuit
	0.046	Seconds Short Circuit (AC)
X/R Ratio :	12.961	

Prepared by LC on 10/14/16

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