INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : EAST COAST ELECTRICAL - YOUNGSVILLE NC
Serial No. : 3006182684-10
Document No. : 3006182684-10_3500HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	3500
Service Factor :	1.15
Voltage :	2300 / 4000
Number of Phases :	3
Frequency, hertz :	60
Ambient, °C :	40
Enclosure :	WPII
Synchronous Speed, RPM :	1800
Percent Starting Voltage :	90
Maximum Elevation (ft) :	3300

FRAME DATA

Frame :	6813
Type :	CGII
Rotor Construction :	Fabricated Copper Bar
Load Inertia (wk2), lb-ft2 :	-
Rotor Inertia (wk2), lb-ft2 :	1343
Rotor Weight, lbs :	3577
Motor Weight, lbs :	14700
Stator Temp. Rise :	80 by RES @ 1SF
Sound Pressure Level :	82dBA @ 3ft, unloaded
Insulation Class :	F-VPI
Bearing Type :	Sleeve

PERFORMANCE DATA

Full Load Speed, RPM :	1790	Full Load Torque, lb-ft :	10269
Current, Amps :	761.6 / 439.7	Starting Torque, %FLT :	93
Locked Rotor Current, %FLA :	705	Breakdown Torque, %FLT :	239
kVA/Hp :	6.14	NEMA Design :	-
kVA Code :	G		

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	94.3	96.2	96.5	96.4	96.2	N/A	N/A
Percent Power Factor :	68.5	84.3	88.2	88.9	88.6	5.1	14.5
Current, Amps :	145.8	232.4	332.1	439.7	508.2	96.4	3101
Current, Amps :	252.5	402.6	575.2	761.6	880.2	166.9	5371

	100	90	% Voltage	RTD Settings (°C):	Alarm	Shutdown
Safe Stalled Time, Motor Hot :	9	12	Seconds	Stator:	155	170
Safe Stalled Time, Motor Cold :	11	15	Seconds	Bearings:	100	105
Acceleration Time :	-	-	Seconds			

Time Constants :	2.122	Seconds Open Circuit
	0.073	Seconds Short Circuit (AC)
X/R Ratio :	19.846	

Prepared by M NORDMEYER on 10/11/16

Please Note : 1. All values are typical.
2. Guaranteed values are indicated in (GUAR).
3. Suitable for Class 1, GRP B C D , Div 2, Temp. 200°C, Oper. Code T3.