INDUCTION MOTOR DATA

Siemens Industry, Inc.
Norwood, Ohio

Customer : East Coast Electrical
Serial No. : 3006095444-20
Document No. : 3006095444-20_400HP_DS
Revision : AA

SPECIFIED REQUIREMENTS

Horsepower :	400
Service Factor :	1.15
Voltage :	2300 / 4000
Number of Phases :	3
Frequency, hertz :	60
Ambient, °C :	40
Enclosure :	TEFC
Synchronous Speed, RPM :	1200
Percent Starting Voltage :	90
Maximum Elevation (ft) :	3300

FRAME DATA

Frame :	5011
Type :	CMZ
Rotor Construction :	Aluminum Die Cast
Load Inertia (wk^2), $lb\text{-}ft^2$:	-
Rotor Inertia (wk^2), $lb\text{-}ft^2$:	150
Rotor Weight, lbs :	1018
Motor Weight, lbs :	4775
Stator Temp. Rise :	80 by RES @ 1SF
Sound Pressure Level :	80dBA @ 3ft, unloaded
Insulation Class :	F-VPI
Bearing Type :	Anti-Friction

PERFORMANCE DATA

Full Load Speed, RPM :	1184	Full Load Torque, lb-ft :	1774
Current, Amps :	97.5 / 56.3	Starting Torque, %FLT :	121
Locked Rotor Current, %FLA :	497	Breakdown Torque, %FLT :	197
kVA/Hp :	4.85	kVA Code :	E

	0.25 Load	0.50 Load	0.75 Load	Full Load	1.15 Load	No Load	Locked Rotor
Percent Efficiency :	91.8	94.3	94.5	94.1	93.7	N/A	N/A
Percent Power Factor :	49.2	70.6	78.6	81.3	81.6	4.2	26.2
Higher Voltage Current, Amps :	23.8	32.3	43.5	56.3	64.8	19.3	280
Lower Voltage Current, Amps :	41.3	56.0	75.3	97.5	112.2	33.4	485

	100	90	% Voltage
Safe Stalled Time, Motor Hot :	18	23	Seconds
Safe Stalled Time, Motor Cold :	21	27	Seconds
Acceleration Time :	-	-	Seconds

RTD Settings (°C):	Alarm	Shutdown
Stator:	155	170

Time Constants : 0.550 Seconds Open Circuit
0.037 Seconds Short Circuit (AC)
X/R Ratio : 15.265

Prepared by I Niggebrugge on 08/02/16

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