

Product Information Packet

November 8, 2016

Data shown is for the current revision model #. Ensure your nameplate model # matches.

Model Number:	5KS324SAA105D
Catalog Number:	M9182
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	239C6000AE

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS324SAA105D	Estimated Weight:	620 Lbs
Outline Drawing:	239C6000AE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	32BD0110A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	60
Frame:	324T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	93.0 %
Output Power:	40HP 29.6KW	Guaranteed Efficiency:	92.4
RPM:	3565	3/4 Load Efficiency:	92.8
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	15.4
Amps - FL:	97.6/48.8	Power Factor:	82.5
Service Factor:	1.15	Bearing - DE:	6312ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS324SAA105D S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 8.6-60 HZ, CHP 60-75 HZ.

Additional Information:

2P - T EXTN
 346 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING
 TEFC XSD ULTRA STOCK 08/24/2016
 ENGINEERED BY: BALASUBRAMANIANH/BILURP

Performance Characteristics

1st Winding 1st Connection

Design: 32BD0110A

Marks:

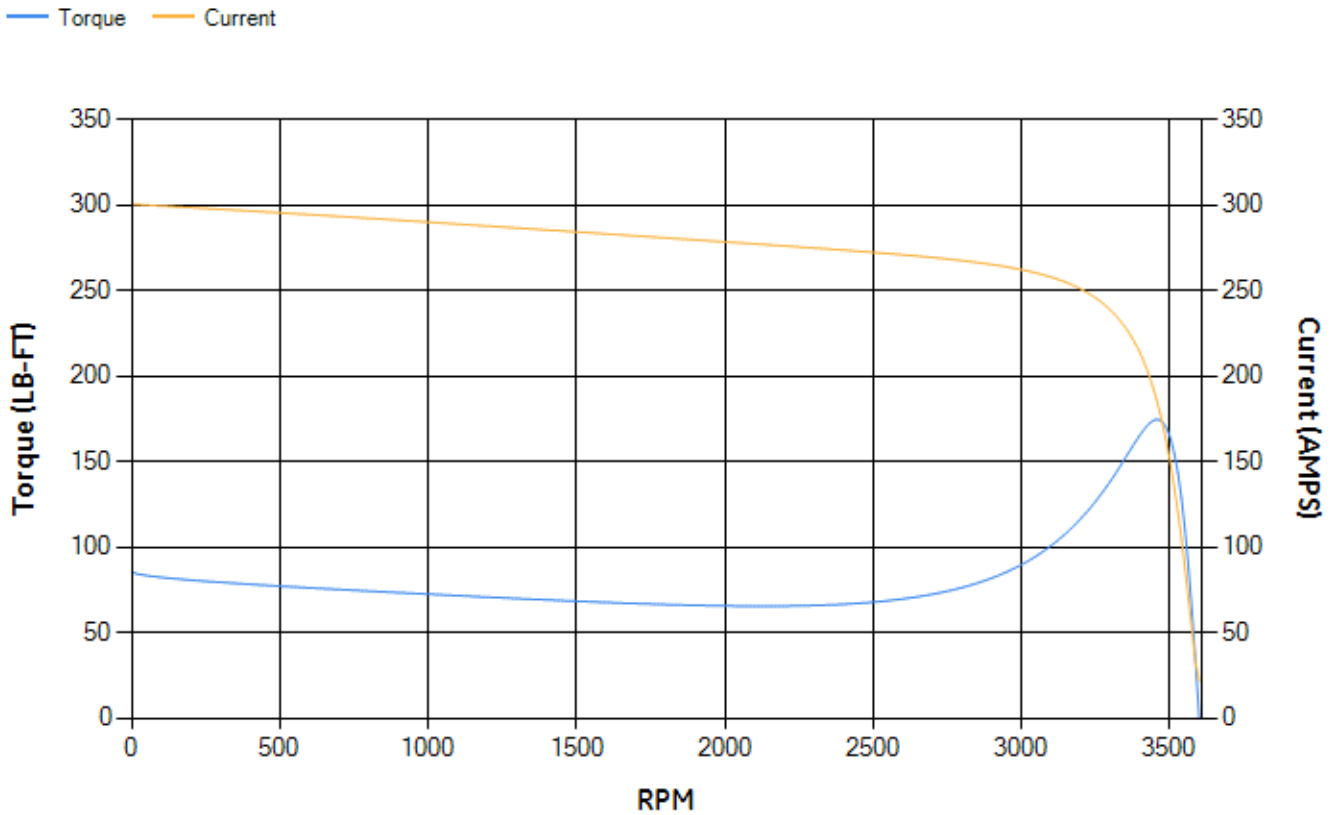
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.48	92.68	93.08	92.81	91.71	87	0.00
% PF	84.94	84.16	82.43	77.19	66.33	44.05	5.62
AMPS	59.58	55.2	48.73	39.2	30.77	24.42	21.43

TORQ(FL)#FT	58.88	TORQ(LR)%FL	145.55	TORQ(BD)%FL	296.23
AMPS(LR)	300.37	PF AT START	0.29		

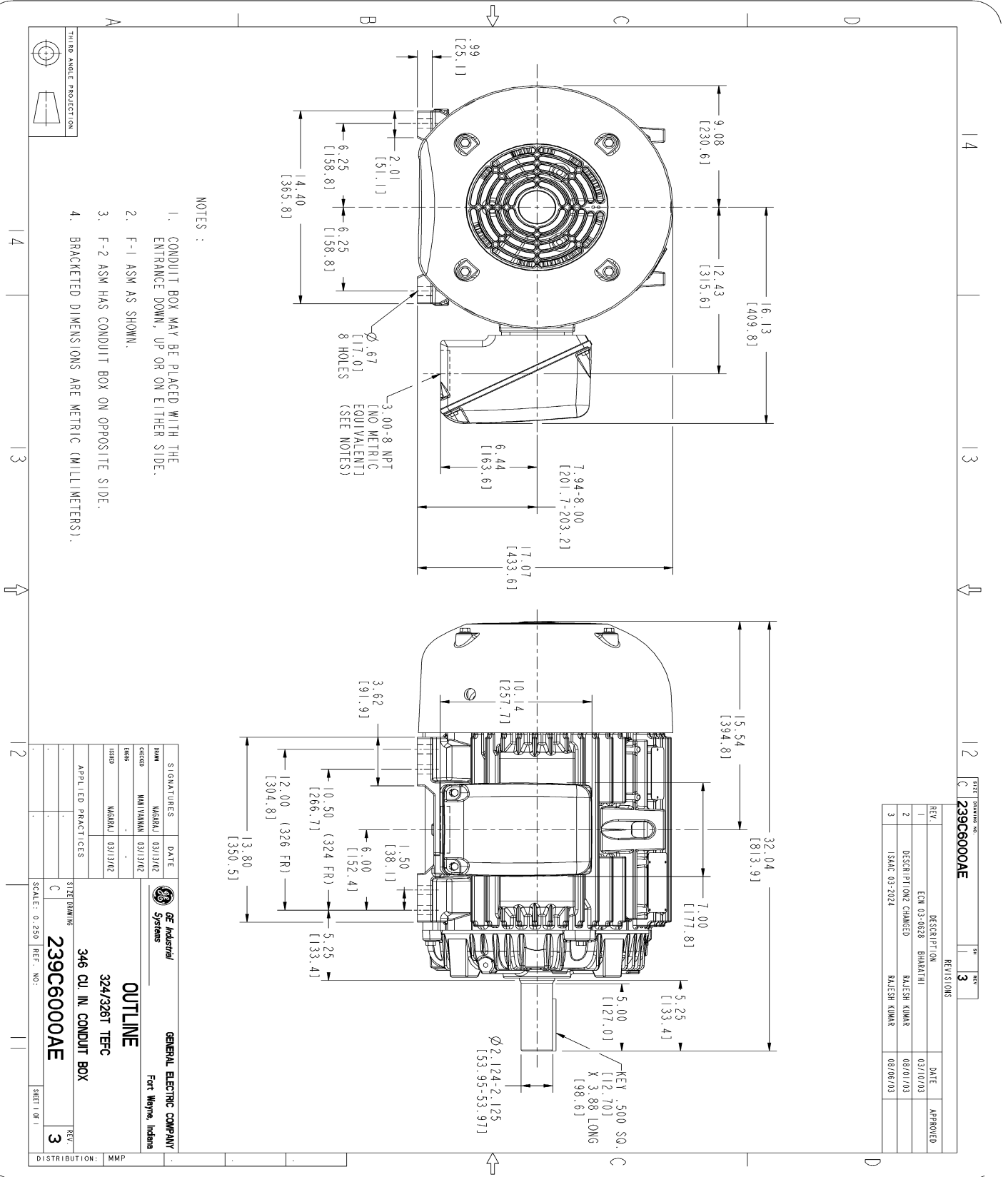
This motor is capable of two cold or one hot start with a maximum connected load inertia of 117 Lb-Ft Sq (4.93 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 23 seconds. Safe stall time at 100% voltage is 52 seconds cold, 27 seconds hot. Rotor inertia is 3.14 Lb-Ft Sq (0.13 Kg-meter Sq).

Open Circuit A-C:	0.603	Short Circuit D-C:	0.017
Short Circuit A-C:	0.041	X/R Ratio:	6.429
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:



REVISIONS		DATE	APPROVED
REV. 1	DESCRIPTION	03/10/03	
2	DESCRIPTION CHANGED	08/01/03	
3	ISSAC 03-2024	08/06/03	

SIGNATURES	DATE	GENERAL ELECTRIC COMPANY Fort Wayne, Indiana	
DESIGNER	03/13/02	OUTLINE 346 CU. IN. CONDUIT BOX 239C6000AE	
DRAWN	03/13/02		
CHECKED	03/13/02	APPLIED PRACTICES SCALE: 0.250 REF. NO.:	
DATE	03/13/02	SHEET 0F 1	
DATE	03/13/02	REV. 3	
DATE	03/13/02	DISTRIBUTION: MMP	

Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	