# **Product Information Packet**

January 12, 2017

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

Model Number: 5KS449SAG320A

Catalog Number: E9527

**Instruction Manual:** GEI-56128

Connection Diagram: GEM2034E-FIG1

Outline Drawing: 225B6500HW

### **Accessory Connection Diagrams**

Bearing Thermocouple:NoneHeater:NoneRTD:235A3027RYThermistor:None

Thermostat: None Winding Thermocouple: None Bearing RTD: None

Table of Contents

Specification 01

Performance Characteristics 02

Outline Drawing 03

Connection Drawing(s) 04



#### Marks:

MODEL NUMBER: 5KS449SAG320A
Outline Drawing: 225B6500HW
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 49ED3007E
Type: KS

 Type:
 KS

 Frame:
 449T

 Phases:
 3

 Poles:
 6

Output Power: 150HP 111KW

RPM: 1185
Voltage: 2300
Hertz: 60
Amps - FL: 38.3
Service Factor: 1.15
Alt Service Factor: XX

**Enclosure is Totally Enclosed Fan-Cooled** 

**Estimated Weight:** 2750 Lbs Time Rating: CONT **Enclosure: TEFC Encl Construction:** X\$D Ambient Max(°C): 40 Alt Ambient Max(°C): XXF **Insulation Class: NEMA Design:** В 94.1 % **Nominal Efficiency: Guaranteed Efficiency:** 93.6 3/4 Load Efficiency: 94.5 **KVA Code:** G Max KVAR: 58.0 **Power Factor:** 78.0 **Bearing - DE:** NU 318 **Bearing - ODE:** 6318ZC3

#### **Stamped Nameplate Notes:**

MAX INT AND EXT SURFACE TEMP FOR NORM OPER AT RATED COND 215 DEG C
VIBRATION LIMIT = 0.0005 INCHES
GREASE POLYREX EM
TEMP CONT HTR LDS H 115V 125W
ROLLER BRG - FOR BELTED LOAD ONLY
OFFSET CORE - DO NOT ASSEMBLE F2
STAMP NP249A5564P009 AS FOLLOWS:
MAXIMUM SPACE HEATER SURFACE
TEMPERATURE FOR NORMAL OPERATION
AT RATED CONDITIONS 172 DEG C

#### **Additional Information:**

6 POLE, T SHAFT EXTN
AISI 4140 SHAFT MATERIAL
FORMED COIL
TEMP CONTRL 115V HEATER LEADS TO ACC BOX
100 OHM WINDING RTD LEADS TO ACC BOX
700 Cu. In. CBOX



# Performance Characteristics

1st Winding 1st Connection

		Des	<u>sig</u>	ın:	49	Εľ	<u>)3</u>	<u>00</u>	7	Ε
--	--	-----	------------	-----	----	----	-----------	-----------	---	---

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.77	94.03	94.53	94.5	93.92	90.7	0.00
% PF	80.01	79.57	78.28	73.65	63.39	41.76	3.84
AMPS	46.78	43.15	37.94	30.26	23.58	18.53	16.14

 TORQ(FL)#FT
 663.82
 TORQ(LR)%FL
 194.57
 TORQ(BD)%FL
 211.14

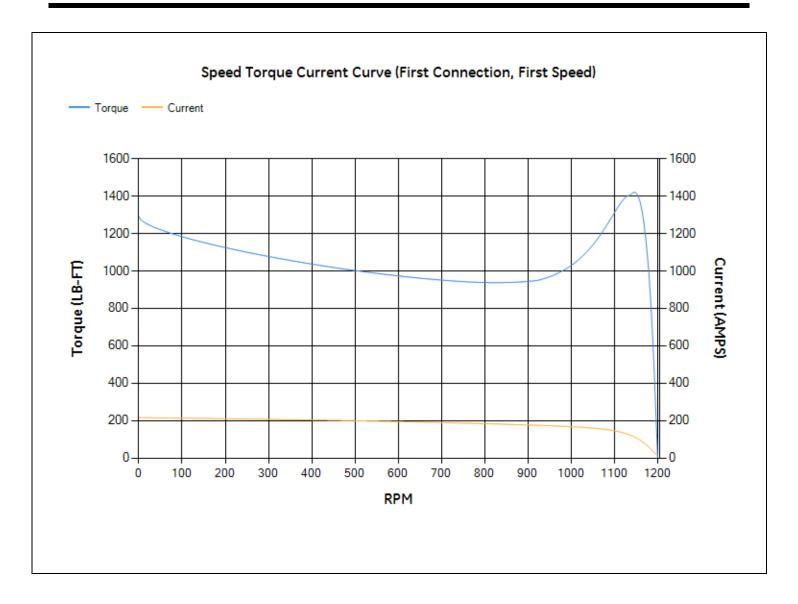
 AMPS(LR)
 215.49
 PF AT START
 0.31

This motor is capable of two cold or one hot start with a maximum connected load inertia of 7883 Lb-Ft Sq (331.87 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 37 seconds. Safe stall time at 100% voltage is 139 seconds cold, 68 seconds hot. Rotor inertia is 90.18 Lb-Ft Sq (3.8 Kg-meter Sq).

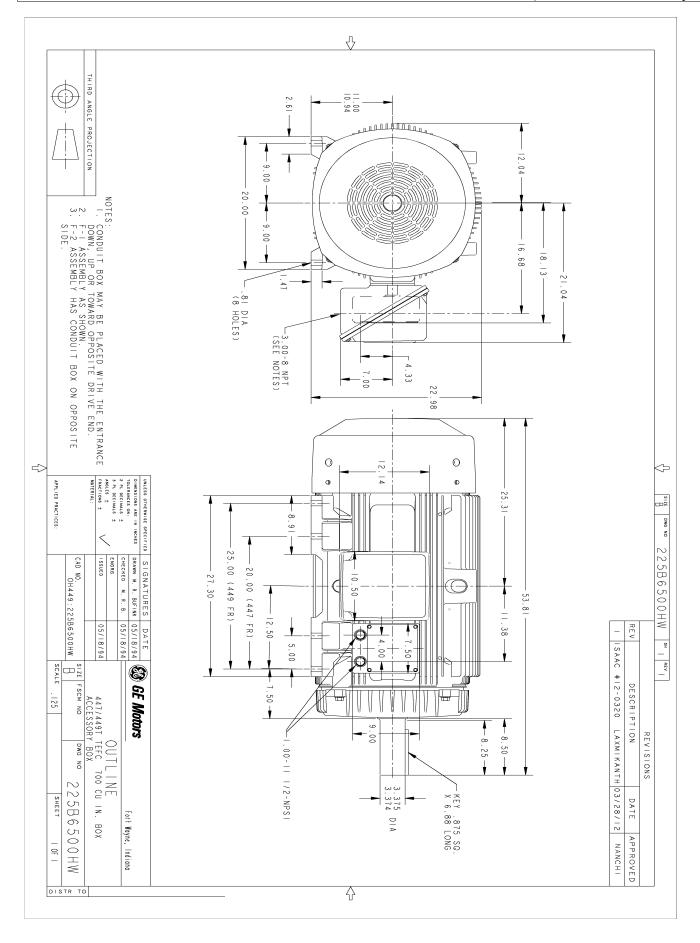
 Open Circuit A-C:
 0.523
 Short Circuit D-C:
 0.029

 Short Circuit A-C:
 0.037
 X/R Ratio:
 10.777

 Stator Slots:
 54
 Rotor Slots:
 42







Marks:

## <u>Connection Diagram</u> <u>GEM2034E-FIG1</u>

