# **Product Information Packet**

January 12, 2017

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

Model Number: 5KS449SAG122A

Catalog Number: E9521

**Instruction Manual:** GEI-56128

Connection Diagram: GEM2034E-FIG1

Outline Drawing: 225B6500KL

## **Accessory Connection Diagrams**

Bearing Thermocouple:NoneHeater:NoneRTD:235A3027RYThermistor:None

Thermostat: None Winding Thermocouple: None Bearing RTD: None

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#### Marks:

**MODEL NUMBER:** 5KS449SAG122A **Outline Drawing:** 225B6500KL **Connection Diagram:** GEM2034E-FIG1 **Instruction Book:** GEI-56128 **Design Code:** 49ED0008E KS Type: Frame: 449TS Phases: 3

Poles: 2
Output Power: 150HP 111KW

 RPM:
 3565

 Voltage:
 2300

 Hertz:
 60

 Amps - FL:
 32.3

 Service Factor:
 1.15

 Alt Service Factor:
 XX

**Estimated Weight:** 2610 Lbs Time Rating: CONT **Enclosure: TEFC Encl Construction:** X\$D Ambient Max(°C): 40 Alt Ambient Max(°C): XXF **Insulation Class: NEMA Design:** В **Nominal Efficiency:** 93.0 % **Guaranteed Efficiency:** 92.4 3/4 Load Efficiency: 93.6 **KVA Code:** G Max KVAR: 16.5 **Power Factor:** 93.5

6314ZC3

6314ZC3

Bearing - DE:

**Bearing - ODE:** 

**Enclosure is Totally Enclosed Fan-Cooled** 

### **Stamped Nameplate Notes:**

MAX INT AND EXT SURFACE TEMP FOR NORM OPER AT RATED COND 215 DEG C
VIBRATION LIMIT = 0.055 IPS
GREASE POLYREX EM
TEMP CONT HTR LDS H 115V 125W
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:**

2 POLE, TS SHAFT EXTN FORMED COIL TEMP CONTRL 115V HEATER LEADS TO ACC BOX 100 OHM WINDING RTD LEADS TO ACC BOX 700 Cu. In. CBOX



40.54

37.04

**Performance Characteristics** 

**AMPS** 

4.58

Design: 49ED0008E

9.44

Marks:							
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.16	93.38	93.81	93.62	92.7	88.58	0.00
% PF	92 93	93 34	93.76	93 81	92 23	83 95	17 85

23.98

16.42

1st Winding 1st Connection

TORQ(FL)#FT	220.79	TORQ(LR)%FL	185.37	TORQ(BD)%FL	226.24
AMPS(LR)	212.91	PF AT START	0.32		

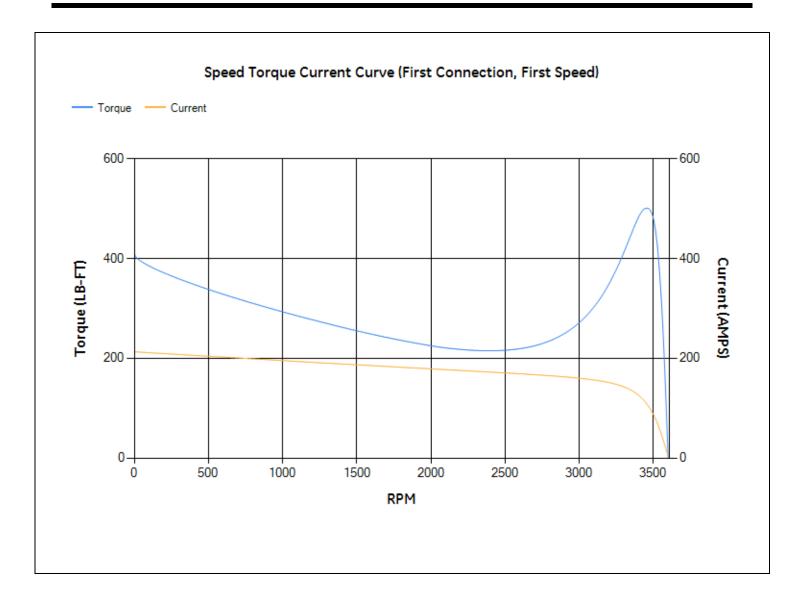
31.92

This motor is capable of two cold or one hot start with a maximum connected load inertia of 458 Lb-Ft Sq (19.28 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 27 seconds. Safe stall time at 100% voltage is 68 seconds cold, 32 seconds hot. Rotor inertia is 46.83 Lb-Ft Sq (1.97 Kg-meter Sq).

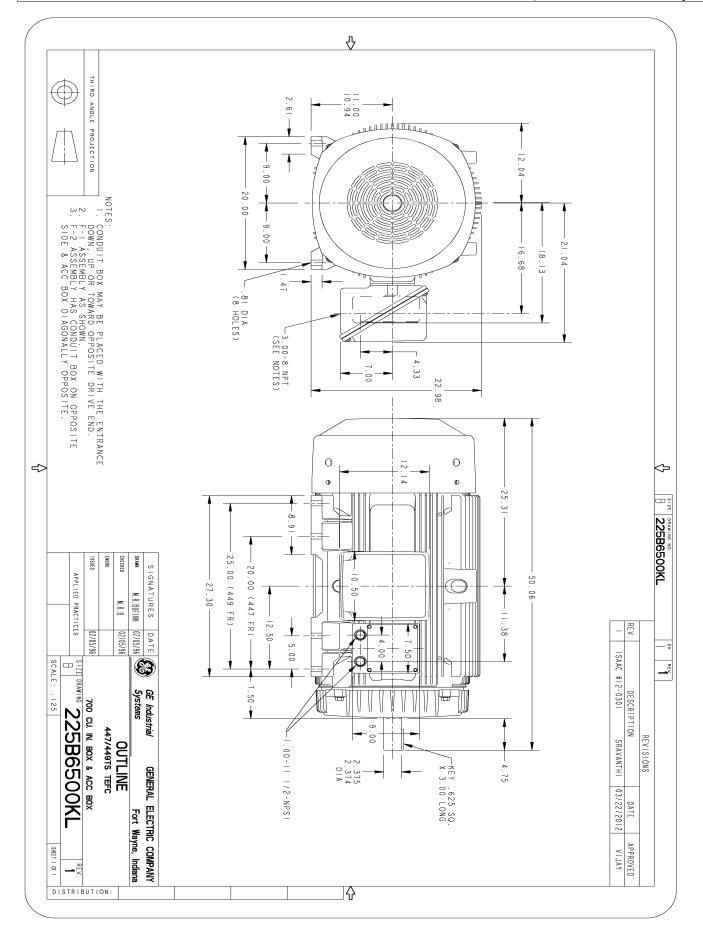
 Open Circuit A-C:
 2.075
 Short Circuit D-C:
 0.025

 Short Circuit A-C:
 0.049
 X/R Ratio:
 9.35

 Stator Slots:
 48
 Rotor Slots:
 40







Marks:

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

