Product Information Packet

January 12, 2017

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

Model Number: 5KS449SAG222B

Catalog Number: E9525

Instruction Manual: GEI-56128

Connection Diagram: GEM2034E-FIG2

Outline Drawing: 225B6500FW

Accessory Connection Diagrams

Bearing Thermocouple:NoneHeater:3027JE-1RTD:235A3027WNThermistor:None

Thermostat: None Winding Thermocouple: None Bearing RTD: None

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Marks:

MODEL NUMBER:5KS449SAG222BOutline Drawing:225B6500FWConnection Diagram:GEM2034E-FIG2Instruction Book:GEI-56128Design Code:49ED1022FType:KS

Type: KS
Frame: 449T
Phases: 3
Poles: 4

Output Power: 200HP 148KW

 RPM:
 1785

 Voltage:
 2300/4000

 Hertz:
 60

 Amps - FL:
 45.0/25.9

 Service Factor:
 1.15

 Alt Service Factor:
 XX

Enclosure is Totally Enclosed Fan-Cooled

Estimated Weight: 2720 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:** 95.0 % **Guaranteed Efficiency:** 94.5 3/4 Load Efficiency: 95.1 **KVA Code:** G Max KVAR: 48.1 **Power Factor:** 87.5 **Bearing - DE:** 6318ZC3 **Bearing - ODE:** 6318ZC3

Stamped Nameplate Notes:

GE SELF DECLARED CLASS I DIV 2 MOTOR
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITION
AT 1.00 S.F. DO NOT EXCEED 215 DEG C
VIBRATION LIMIT = 0.055 IN/SEC
GREASE POLYREX EM
TEMP CONT HTR LDS H 115V 125W
OFFSET CORE - DO NOT ASSEMBLE F2
MAXIMUM SPACE HEATER SURFACE
TEMPERATURE 172 DEG C

Additional Information:

SUGGESTED WINDING RTD SETTINGS
ALARM 165C TRIP 175C
SUGGESTED BEARING RTD SETTINGS
ALARM 115C TRIP 125C
4 POLE, T SHAFT EXTN
FORMED COIL
TEMP CONTRL 115V HEATER LEADS TO ACC BOX
100 OHM WINDING RTD LEADS TO ACC BOX
2500 Cu. In. CBOX



Performance Characteristics

Design: 49ED1022F

Marks:		_	J J				
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.29	94.55	95.06	95.1	94.71	92.1	0.00
% PF	87.6	87.64	87.29	85.08	78.45	58.6	5.14
AMDS	22.50	20.00	25.04	10.05	14.40	0.07	7 71

1st Winding 1st Connection

 TORQ(FL)#FT
 588.4
 TORQ(LR)%FL
 169.7
 TORQ(BD)%FL
 216.72

 AMPS(LR)
 154.78
 PF AT START
 0.32

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2198 Lb-Ft Sq (92.54 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 21 seconds. Safe stall time at 100% voltage is 83 seconds cold, 40 seconds hot. Rotor inertia is 86.8 Lb-Ft Sq (3.65 Kg-meter Sq).

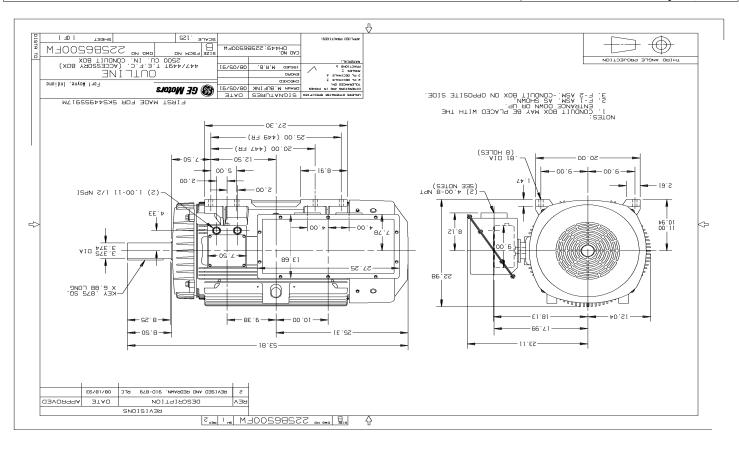
 Open Circuit A-C:
 1.036
 Short Circuit D-C:
 0.024

 Short Circuit A-C:
 0.052
 X/R Ratio:
 9.184

 Stator Slots:
 60
 Rotor Slots:
 50







Marks:

<u>Connection Diagram</u> <u>GEM2034E-FIG2</u>

