Product Information Packet

January 13, 2017

Bearing RTD:

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

Model Number: 5KS511XAA352A

Catalog Number: Q866

Instruction Manual: GEI-56128

Connection Diagram: GEM2034E-FIG20

Outline Drawing: 239C6B00KY

Accessory Connection Diagrams

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

235A3027NA

Table of Contents	
Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04



Marks:

MODEL NUMBER:
Outline Drawing:
Connection Diagram:
Instruction Book:
Design Code:
Type:

5KS511XAA352A
239C6B00KY
GEM2034E-FIG20
GEI-56128
50BD3097AA
KS

Type: KS
Frame: 5011L
Phases: 3
Poles: 6

Output Power: 400HP 296KW

 RPM:
 1190

 Voltage:
 460

 Hertz:
 60

 Amps - FL:
 450.0

 Service Factor:
 1.15

 Alt Service Factor:
 -

Estimated Weight: 5626 Lbs Time Rating: CONT **Enclosure: TEFC Encl Construction:** 841 Ambient Max(°C): 40 Alt Ambient Max(°C): F **Insulation Class: NEMA Design:** Nominal Efficiency: 96.2 % **Guaranteed Efficiency:** 95.4 3/4 Load Efficiency: 96.4 **KVA Code:** G Max KVAR: 97.3

86.5

NU 320

6315ZC3

Power Factor:

Bearing - DE:

Bearing - ODE:

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 93 DBA TSTAT HTR LDS H 115V 200W DE BRG 100RU03M. ODE BRG 75BC03XP3 **INVERTER DUTY PER NEMA MG1 PART 31** ALTERNATE RATING FOR PWM CONTROL: 1.0SF 40C AMBIENT VAR TORQUE RANGE 0-60 HZ MAXIMUM EXPOSED INTERNAL AND EXTERNAL SURFACE TEMPERATURES DO NOT EXCEED 200C UNDER USUAL SERVICE CONDITIONS AT 1.0SF MAXIMUM SPACE HEATER SURFACE TEMPERATURE FOR NORMAL OPERATION AT RATED CONDITIONS 160C STAMP NP249A5499AP AS BELOW: MODEL:5KS511XAA352A S/N: XXX EX NA IIC T3 GC CSA.09.2216219 CLASS I. ZONE 2. AEX NA IIC T3 CLASS I, DIV 2, GROUPS A, B, C, D T3 -25C <= TAMB <= 40C ROLLER BEARING - FOR BELTED LOAD ONLY

Additional Information:

6P - L EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT, FAN COVER INSIDE &
ODE E/S OUTSIDE
2500 CU IN - 2(4.00" NPT)
C/B GRD PLATE
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS



.002" TIR SHAFT RUNOUT

ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST

REPORT INCLUDED IN C/B

COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,

APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,

RABBETS AND PLUG THREADS.

B5F4C4 HIGH STRENGTH STEEL AISI 4142 SHAFT MATERIAL

100 0HM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX

SUGGESTED WINDING RTD SETTINGS

ALARM 165C TRIP 175C

115V TSTAT CTRLD HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX

SPACE HEATER CAUTION NAMEPLATE

BEARING RTD 100 OHM ON BOTH ENDS

SUGGESTED BEARING RTD SETTINGS

ALARM 115C TRIP 125C

NEMA TYPE GRD PAD

F1 MOUNTING

SHAFT BLOCKING FOR SHIPMENT



250.89

Performance Characteristics

1st Winding 1st Connection

Design: 50BD3097AA

TORQ(BD)%FL

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.41	95.67	96.21	96.39	96.37	94.97	0.00
% PF	86.72	86.75	86.37	84.03	77.12	56.7	3.01
AMPS	565.58	518.73	450.73	346.65	251.84	173.8	135.3

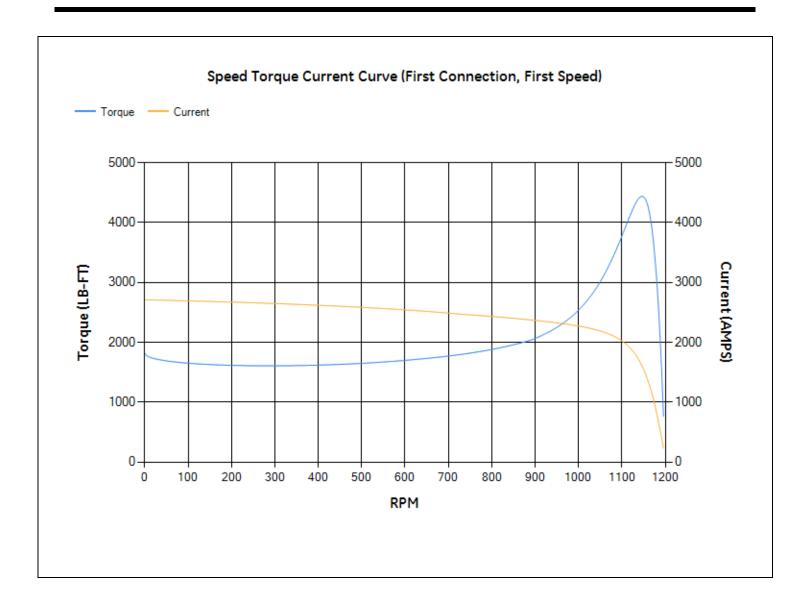
TORQ(FL)#FT 1765.44 **TORQ(LR)%FL** 102.9 **AMPS(LR)** 2709.57 **PF AT START** 0.21

This motor is capable of two cold or one hot start with a maximum connected load inertia of 19174 Lb-Ft Sq (807.23 Kgmeter 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 52 seconds. Safe stall time at 100% voltage is 110 seconds cold, 65 seconds hot. Rotor inertia is 259.82 Lb-Ft Sq (10.94 Kg-meter Sq).

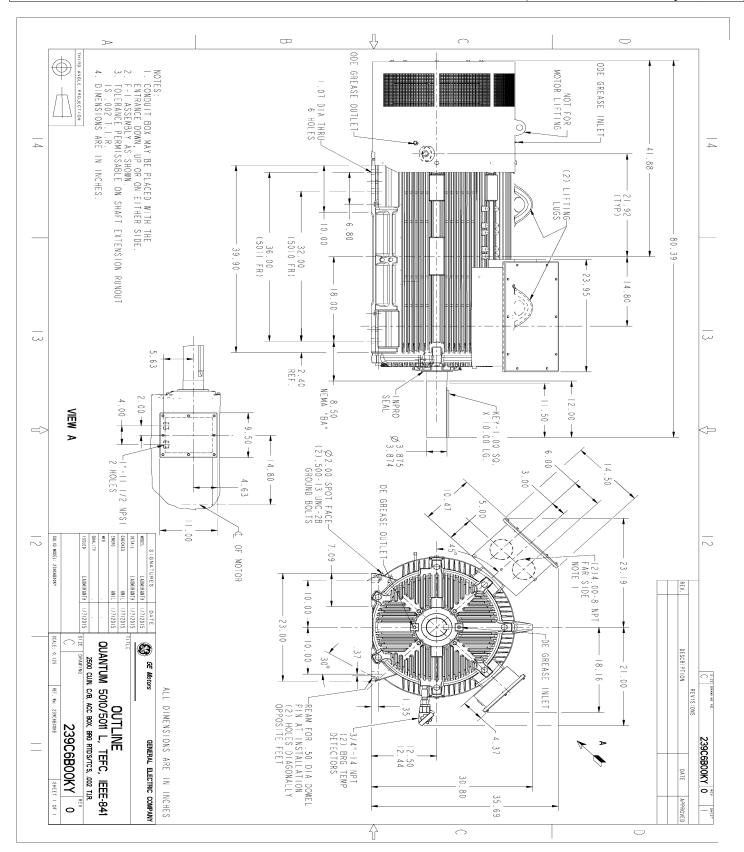
 Open Circuit A-C:
 1.009
 Short Circuit D-C:
 0.038

 Short Circuit A-C:
 0.048
 X/R Ratio:
 14.194

 Stator Slots:
 72
 Rotor Slots:
 58







Connection Diagram GEM2034E-FIG20

