Product Information Packet

January 13, 2017

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

Model Number: 5KS511XAA153A

Catalog Number: Q839

Instruction Manual: GEI-56128

Connection Diagram: GEM2034E-FIG2

Outline Drawing: 239C6B00JY

Accessory Connection Diagrams

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

Thermostat: None Winding Ther
Bearing RTD: 235A3027NA

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



Marks:

MODEL NUMBER:5KS511XAA153AOutline Drawing:239C6B00JYConnection Diagram:GEM2034E-FIG2Instruction Book:GEI-56128Design Code:50BD0085FType:KSFrame:5011LS

Phases: 3
Poles: 2

Output Power: 450HP 333KW

RPM: 3570 **Voltage:** 2300/4000 **Hertz:** 60

Amps - FL: 93.4/53.7
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 5742 Lbs Time Rating: CONT **Enclosure: TEFC Encl Construction:** 841 Ambient Max(°C): 40 Alt Ambient Max(°C): F **Insulation Class: NEMA Design:** В Nominal Efficiency: 95.4 % **Guaranteed Efficiency:** 94.5 3/4 Load Efficiency: 95.8 **KVA Code:** G Max KVAR: 50.9

Bearing - DE: 6315ZC3S0 **Bearing - ODE:** 6315ZC3S0

94.5

Power Factor:

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 94 DBA, END SHIELD RISE 51 DEG C WINDING RISE 81 DEG C. AIT 215 DEG C TSTAT HTR LDS H 115V 200W DE BRG 75BC03JP3026, ODE BRG 75BC03JP3026 ROT CCW FACING ODE LEAD/PH SEQUENCE 3-2-1/1-2-3 MAXIMUM EXPOSED INTERNAL AND EXTERNAL SURFACE TEMPERATURES DO NOT EXCEED 215C UNDER USUAL SERVICE CONDITIONS AT 1.0SF MAXIMUM SPACE HEATER SURFACE TEMPERATURE FOR NORMAL OPERATION AT RATED CONDITIONS 172C **GREASE MOBILITH SHC 100** STAMP NP249A5499AP AS BELOW: MODEL:5KS511XAA153A S/N: XXX EX NA IIC T2D GC CSA.09.2216219 CLASS I, ZONE 2, AEX NA IIC -CLASS I, DIV 2, GROUPS A, B, C, D T2D -25C <= TAMB <= 40C FOR DIRECT COUPLED LOAD ONLY **CUSTOM POLYSEAL**

Additional Information:

2P - LS EXTN
PAINTED FRAME ID & SHAFT, FAN COVER INSIDE &
ODE E/S OUTSIDE
CCW ROTATION FACING OPPOSITE DRIVE END
2500 CU IN - 2(4.00" NPT)



INPRO SEAL BOTH ENDS

OIL RESISTANT SLEEVING ON LEADS

.0015" 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.

HEAT STABILIZED BEARINGS

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



67.86

62.12

Performance Characteristics

AMPS

8.14

Design: 50BD0085F

15.76

<u>Marks</u> :							
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.99	95.22	95.71	95.79	95.57	93.55	0.00
% PF	93.93	94.17	94.36	94.07	92.02	82.16	8.43

40.32

27.54

1st Winding 1st Connection

TORQ(FL)#FT	662.19	TORQ(LR)%FL	97.96	TORQ(BD)%FL	285.68
AMPS(LR)	360.53	PF AT START	0.18		

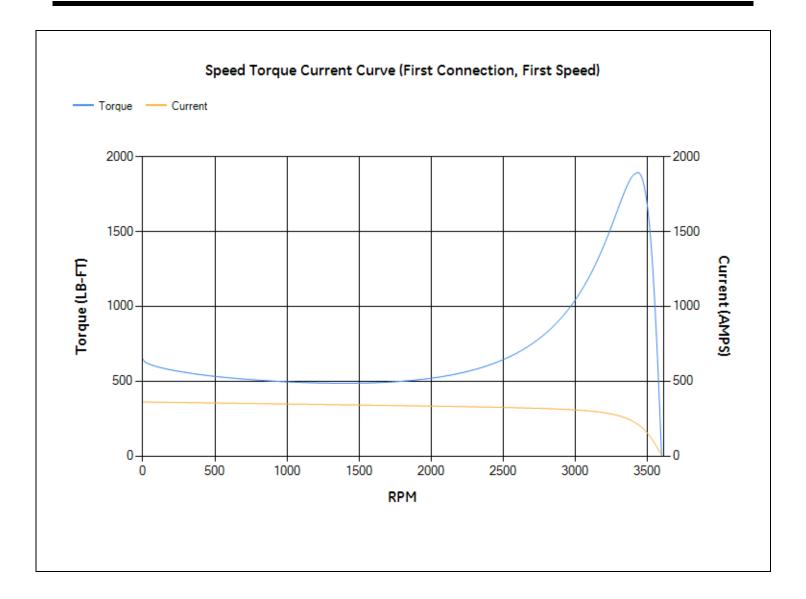
53.55

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1074 Lb-Ft Sq (45.22 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 28 seconds. Safe stall time at 100% voltage is 63 seconds cold, 34 seconds hot. Rotor inertia is 123.97 Lb-Ft Sq (5.22 Kg-meter Sq).

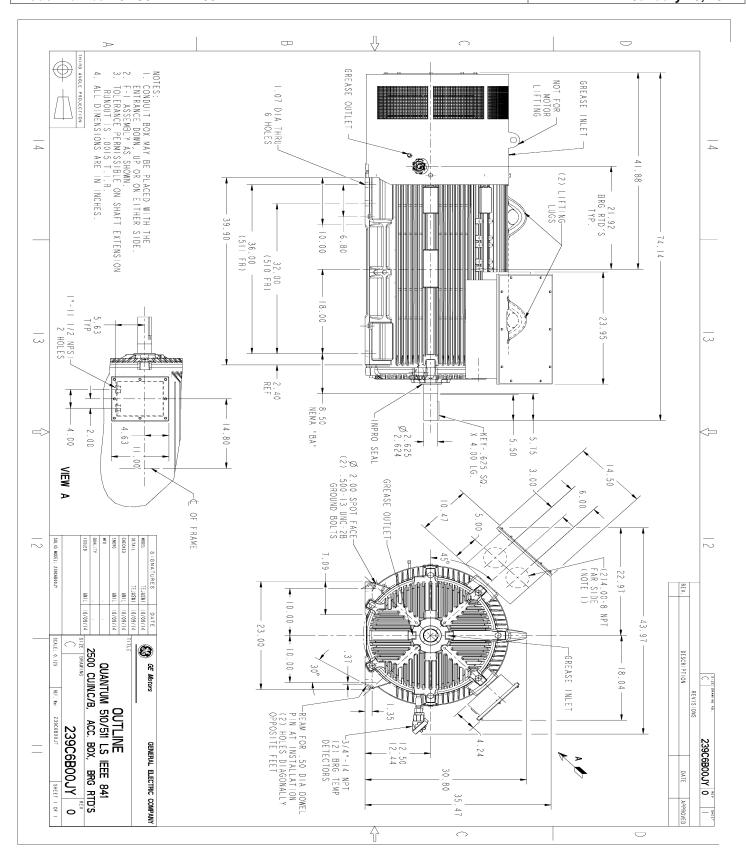
 Open Circuit A-C:
 1.989
 Short Circuit D-C:
 0.033

 Short Circuit A-C:
 0.048
 X/R Ratio:
 12.432

 Stator Slots:
 48
 Rotor Slots:
 40







Marks:

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

