

Product Information Packet

January 13, 2017

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

Model Number:	5KS511XAA149A
Catalog Number:	Q835
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	239C6B00JY

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1
RTD:	235A3027WN	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	235A3027NA		

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Marks:

MODEL NUMBER:	5KS511XAA149A	Estimated Weight:	5567 Lbs
Outline Drawing:	239C6B00JY	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	50BD0205E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5011LS	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	350HP 259KW	Guaranteed Efficiency:	94.1
RPM:	3570	3/4 Load Efficiency:	95.4
Voltage:	2300/4000	KVA Code:	G
Hertz:	60	Max KVAR:	39.2
Amps - FL:	73.0/42.0	Power Factor:	94.5
Service Factor:	1.15	Bearing - DE:	6315ZC3
Alt Service Factor:	--	Bearing - ODE:	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 94 DBA
TSTAT HTR LDS H 115V 200W
DE BRG 75BC03XP3, ODE BRG 75BC03XP3
ROT CCW FACING ODE LEAD/PH SEQUENCE 3-2-1/1-2-3
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:5KS511XAA149A 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
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.
100 OHM 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

Performance Characteristics

1st Winding 1st Connection

Design: 50BD0205E

Marks:

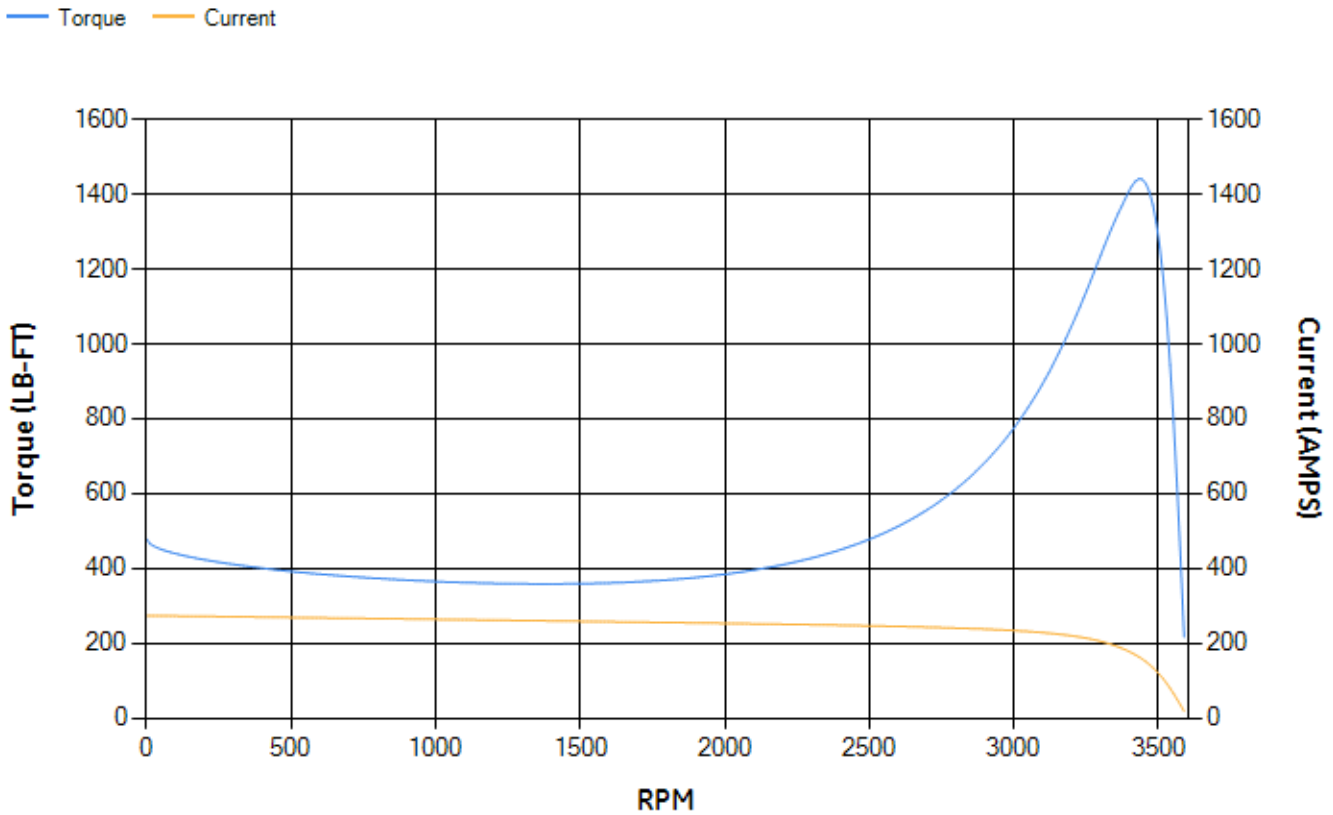
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.66	94.89	95.38	95.42	95.11	92.76	0.00
% PF	93.81	94.06	94.28	94.02	92.03	82.41	9.72
AMPS	53.03	48.54	41.82	31.49	21.52	12.32	6.29

TORQ(FL)#FT	514.88	TORQ(LR)%FL	92.87	TORQ(BD)%FL	279.56
AMPS(LR)	273.51	PF AT START	0.18		

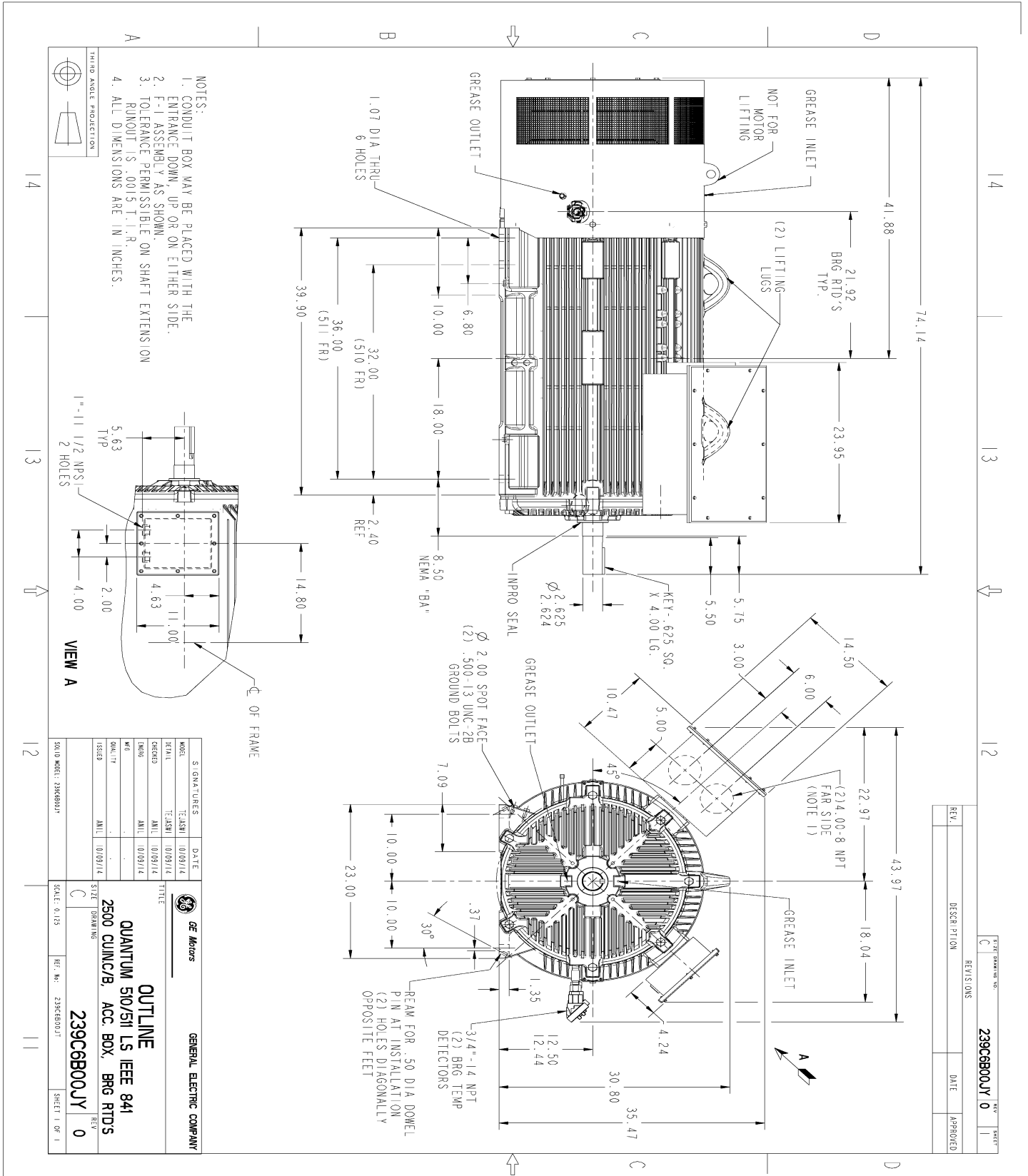
This motor is capable of two cold or one hot start with a maximum connected load inertia of 1060 Lb-Ft Sq (44.63 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 38 seconds. Safe stall time at 100% voltage is 80 seconds cold, 49 seconds hot. Rotor inertia is 116.06 Lb-Ft Sq (4.89 Kg-meter Sq).

Open Circuit A-C:	2.086	Short Circuit D-C:	0.031
Short Circuit A-C:	0.051	X/R Ratio:	11.505
Stator Slots:	48	Rotor Slots:	40

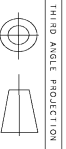
Speed Torque Current Curve (First Connection, First Speed)



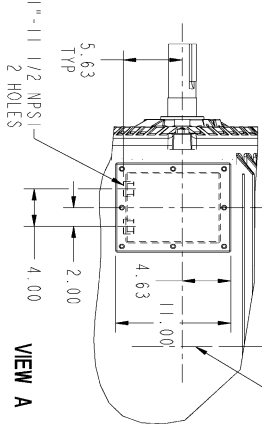
Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-I ASSEMBLY AS SHOWN.
 3. TOLERANCE PERMISSIBLE ON SHAFT EXTENSION RUNOUT IS .0015 T.I.R.
 4. ALL DIMENSIONS ARE IN INCHES.



THIRD ANGLE PROJECTION



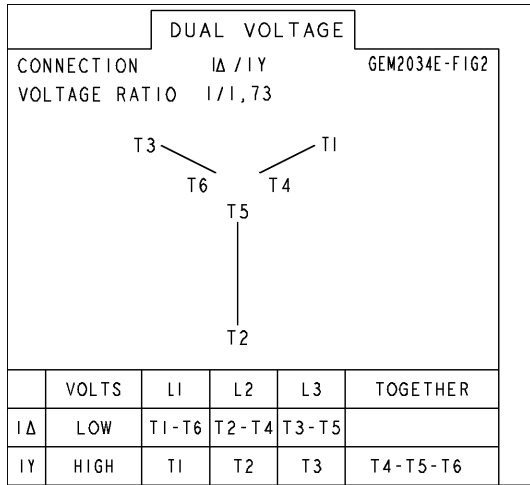
VIEW A

SIGNATURES		DATE	
DESIGN	TECHNICAL	01/09/14	
DRAWN	ANIL	01/09/14	
CHECKED	ANIL	01/09/14	
DATE	ANIL	01/09/14	
ISSUED	ANIL	01/09/14	

SCALE: 0.125	REV. NO.: 239C6B00J1
GENERAL ELECTRIC COMPANY	
OUTLINE	
QUANTUM 510/511 LS IEEE 841	
2500 CUINC/B, ACC. BOX, BRG RTD'S	
SIZE: DRAWING	REV. NO.: 239C6B00J1
C	0
SHEET 1 OF 1	

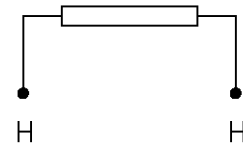
Marks:

Connection Diagram
GEM2034E-FIG2



Heater Connection
3027JE-1

FIG. 1
HEATER CONN.



CONTROL	L1	L2
VOLTAGE ONLY	H	H

SHEET

REV

235A3027WN

SIZE DRAWING NO. A

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED

THIRD ANGLE PROJECTION



- NOTE 1: TERMINAL LABELS ARE PROVIDED FOR ACCESSORIES THAT MAY OR MAY NOT BE INCLUDED WITH THE MOTOR.
- NOTE 2: SPARE RTDS (P7 & P8) FURNISHED IN CASE OF FAILURE IN OTHER RTDS (P1-P6). PHASE LOCATION WILL DEPEND UPON NUMBER OF POLES WINDING CONFIGURATION.
- NOTE 3: IT IS RECOMMENDED THAT RTDS BE GROUNDED AT EITHER THE MACHINE OR CONNECTED TO A GROUNDED CONTROL CIRCUIT. FOR PROPER OPERATION DO NOT GROUND AT THE MACHINE IF CONNECTED TO A GROUND CIRCUIT AT THE CONTROL.

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
APPLIED PRACTICES		
DIMENSIONS ARE IN INCHES		
TOLERANCE ON:		
1 PL DECIMALS ± 0.1		
2 PL DECIMALS ± 0.02		
3 PL DECIMALS ± 0.005		
ANGLES ± 0.5		
FRACTIONS ±		
FINISH		
	ISSUED VIVEK	07/19/13
MATERIAL	SOLID MODEL: MODEL NAME	

GE Motors GENERAL ELECTRIC COMPANY

TITLE: **CONNECTION DIAGRAM**

WINDING RTD'S & T'STATS & HEATERS

SIZE DRAWING: **A** REV: **0**

SCALE: NA SHEET 1 of 1



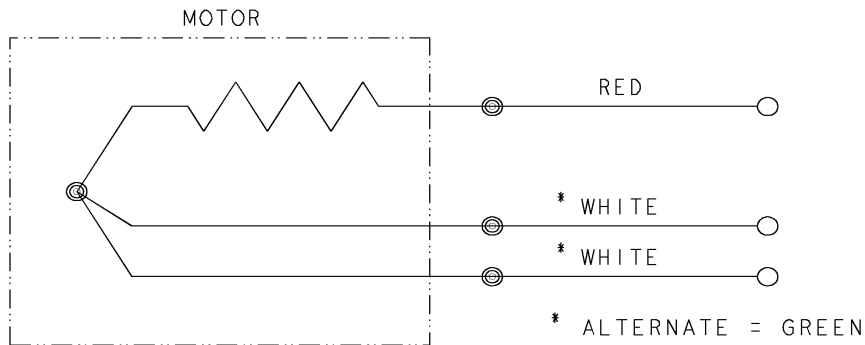
REV SH 1 1	THIRD ANGLE PROJECTION		REVISIONS		
		REV	DESCRIPTION	DATE	APPROVED
		1	ISAAC #12-1124	HARI	11/19/12

SIZE DWG NO 235A3027NA
 A

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BEARING RTDS



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± FRACTIONS ± MATERIAL: APPLIED PRACTICES:	SIGNATURES	DATE	GE Motors Fort Wayne, Indiana	
	DRAWN D.E. BAIR	12/16/92		
	CHECKED D.E. BAIR	12/16/92		
	ENGRG K. DESAI	12/16/92		
	ISSUED D.E. BAIR	12/16/92		
	CAD NO. F500:235A3027NA	SIZE A	FSCM NO	DWG NO 235A3027NA
		SCALE 1/1		SHEET 1 OF 1

CONNECTION DIAGRAM

BEARING RTDS

DISTR TO

