

Product Information Packet

January 12, 2017

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

Model Number:	5KS511SAA2009A
Catalog Number:	Q5034
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	239C6B00MD

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	235A3027XY	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	235A3027NA		

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Marks:

MODEL NUMBER:	5KS511SAA2009A	Estimated Weight:	5451 Lbs
Outline Drawing:	239C6B00MD	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD1227E	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5011L	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	400HP 296KW	Guaranteed Efficiency:	94.5
RPM:	1785	3/4 Load Efficiency:	96.4
Voltage:	2300/4000	KVA Code:	G
Hertz:	60	Max KVAR:	78.6
Amps - FL:	87.7/50.4	Power Factor:	89.5
Service Factor:	1.15	Bearing - DE:	NU 320
Alt Service Factor:	--	Bearing - ODE:	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 350W
ROLLER BEARING - FOR BELTED LOAD ONLY

Additional Information:

4P - L EXTN
2500 CU IN - 2(4.00" NPT)
B5F4C4 HIGH STRENGTH STEEL AISI 4142 SHAFT MATERIAL
100 OHM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX
SUGGESTED WINDING RTD SETTINGS
ALARM 165C TRIP 175C
115V 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

Performance Characteristics

1st Winding 1st Connection

Design: 50BD1227E

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.76	95.94	96.36	96.35	96.08	94.17	0.00
% PF	89.83	89.9	89.69	88.06	82.76	64.84	4.61
AMPS	62.57	57.4	49.85	38.06	27.07	17.63	12.61

TORQ(FL)#FT 1177.41
AMPS(LR) 309.19

TORQ(LR)%FL 124.07
PF AT START 0.27

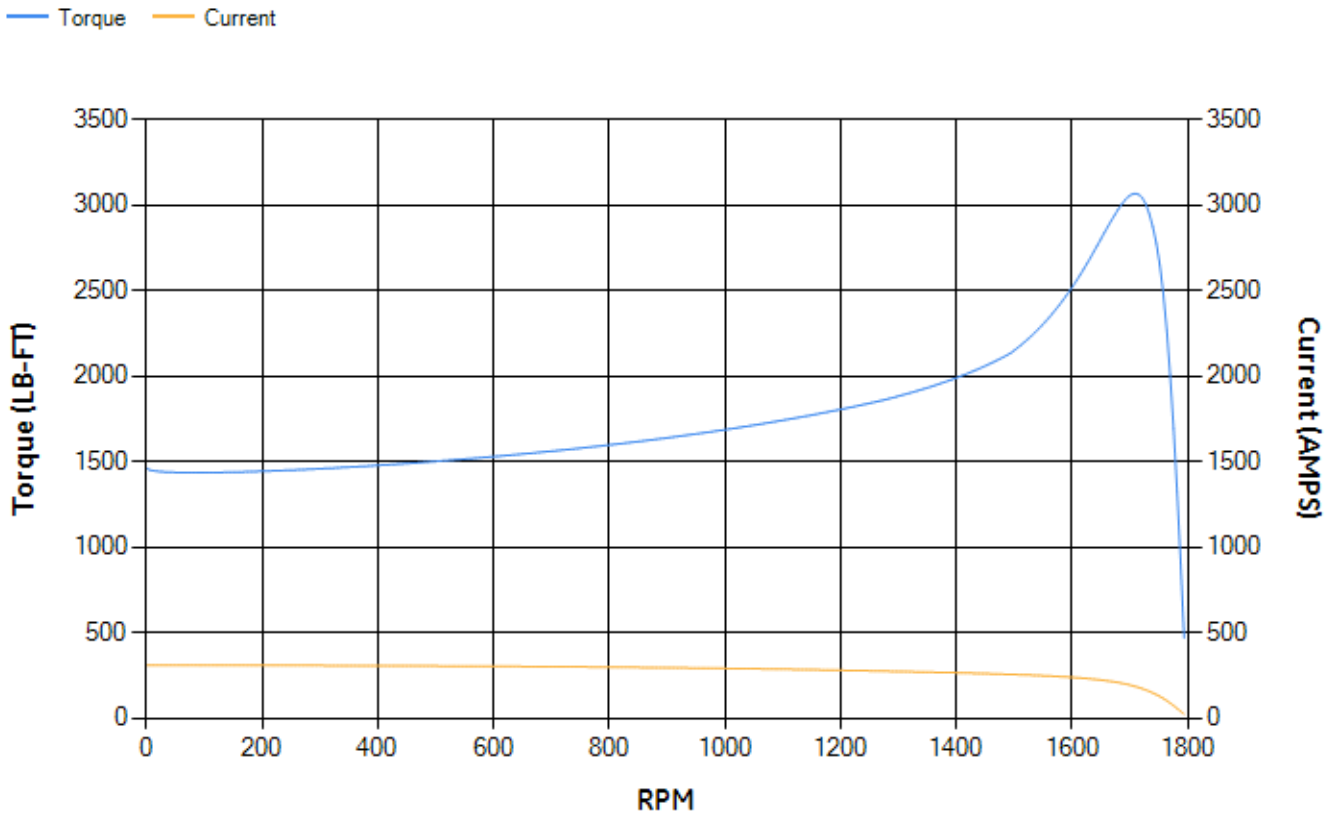
TORQ(BD)%FL 260.2

This motor is capable of two cold or one hot start with a maximum connected load inertia of 10380 Lb-Ft Sq (437 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 44 seconds. Safe stall time at 100% voltage is 95 seconds cold, 59 seconds hot. Rotor inertia is 184.12 Lb-Ft Sq (7.75 Kg-meter Sq).

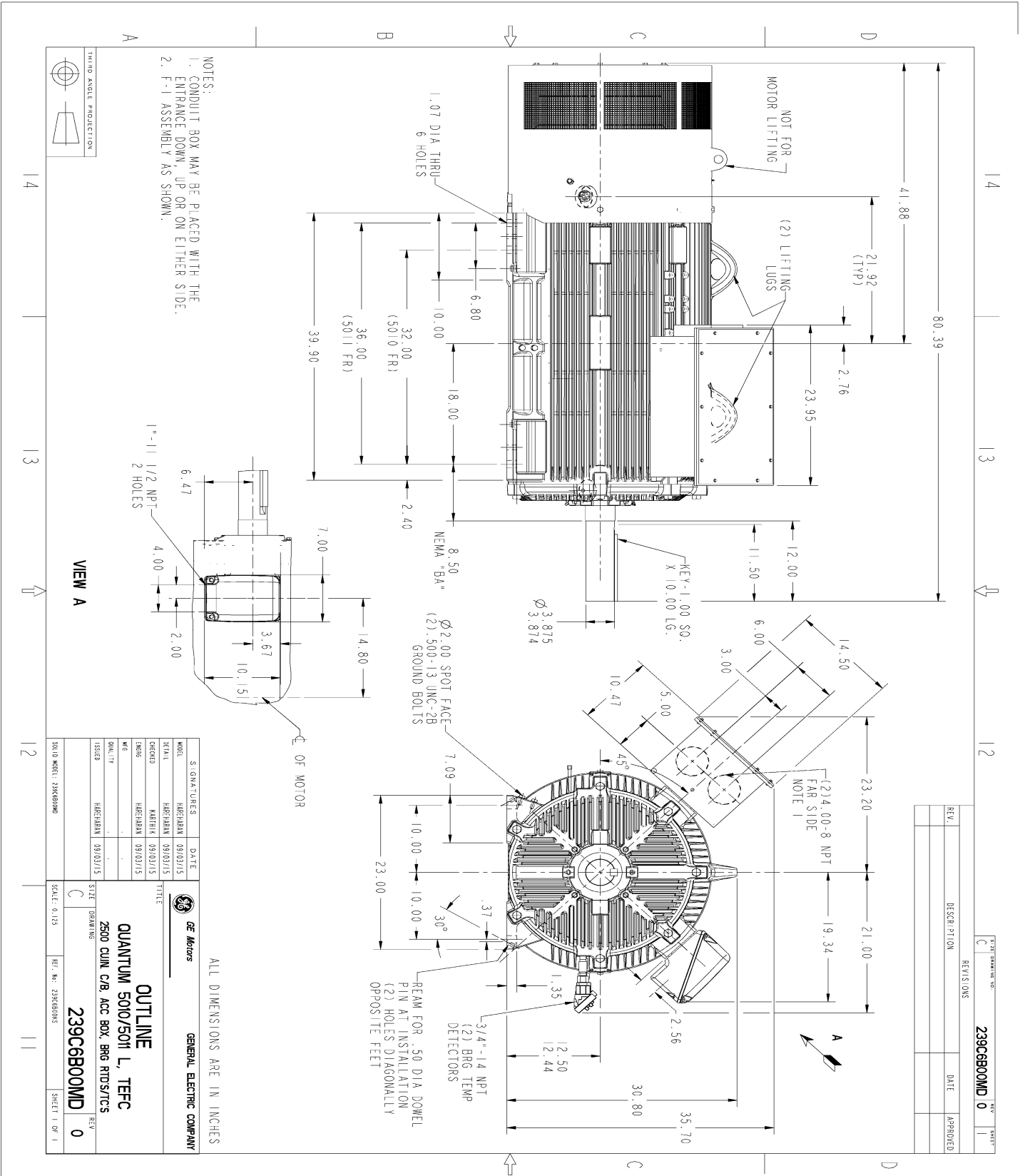
Open Circuit A-C: 1.151
Short Circuit A-C: 0.042
Stator Slots: 72

Short Circuit D-C: 0.034
X/R Ratio: 12.757
Rotor Slots: 58

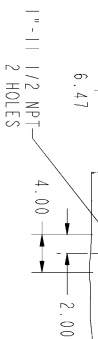
Speed Torque Current Curve (First Connection, First Speed)



Marks:



NOTES:
 1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.



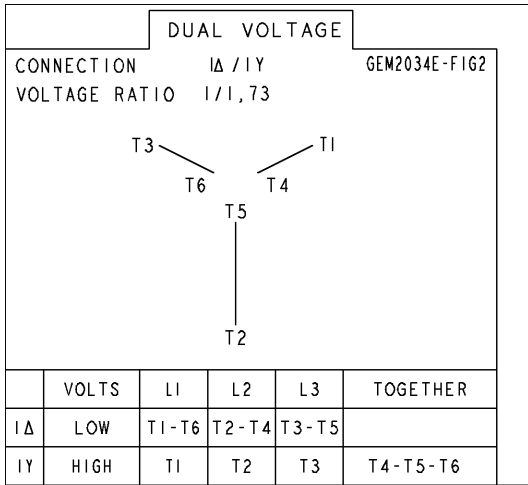
REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
MODEL	HAEGBARN	09/03/15	 GENERAL ELECTRIC COMPANY
DESIGN	MATHIX	09/03/15	
DRWG	HAEGBARN	09/03/15	
CHKD	HAEGBARN	09/03/15	
ISSUED	HAEGBARN	09/03/15	
TITLE		 OUTLINE QUANTUM 5010/5011 L, TEFC 2500 CUIN C/B, ACC BOX, BRG RTD/STCS	
SCALE	C	SIZE	239C6B00MD REV 0
SHEET NO. 239C6B00MD		SHEET 1 OF 1	

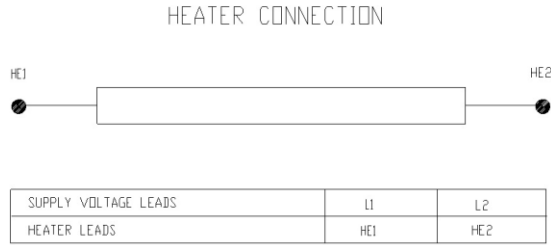
ALL DIMENSIONS ARE IN INCHES

Marks:

Connection Diagram
GEM2034E-FIG2

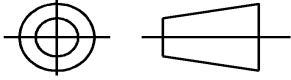


Heater Connection
3027JE-1C



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	REV.	DESCRIPTION	DATE	APPROVED	
	1	ISAAC# 15-0790 HARIKIRAN	07/28/15	DHEERAJ	

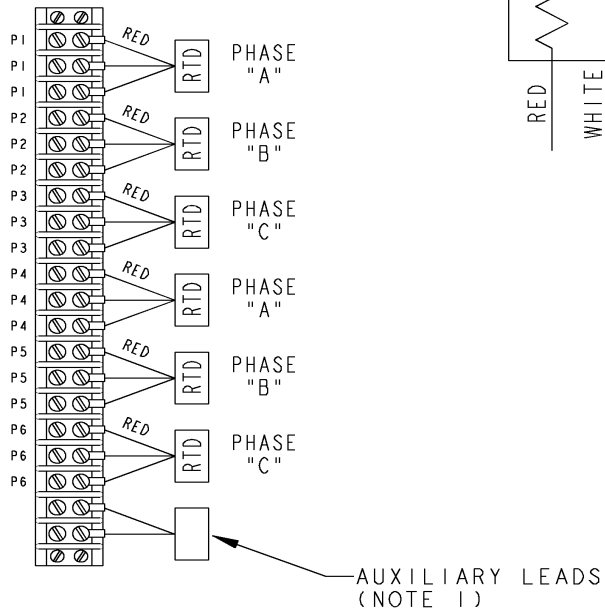
THIRD ANGLE PROJECTION



235A3027XY

A

SIZE DRAWING NO.



NOTE 1: AUXILIARY LEADS SHOWN MAY OR MAY NOT BE PROVIDED IN 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.

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

FOR ADDITIONAL INFO REFER TO:		SIGNATURES		DATE	GE Motors GENERAL ELECTRIC COMPANY
APPLIED PRACTICES		MODEL			
DIMENSIONS ARE IN INCHES		DETAIL	VIVEK	06/26/15	TITLE CONNECTION DIAGRAM WINDING RTD & AUXILIARY LEADS
TOLERANCE ON:		CHECKED	KARTHIK	06/26/15	
1 PL DECIMALS ± 0.1		ENGRG			
2 PL DECIMALS ± 0.02		MFG			
3 PL DECIMALS ± 0.005		QUALITY			SIZE DRAWING 235A3027XY
ANGLES ± 0.5		ISSUED	VIVEK	06/26/15	
FRACTIONS ±					REV 2
FINISH ✓		MATERIAL			SHEET 1 of 1
SOLID MODEL: MODEL NAME		SCALE: N.T.S.		REF: - 235A4594X	



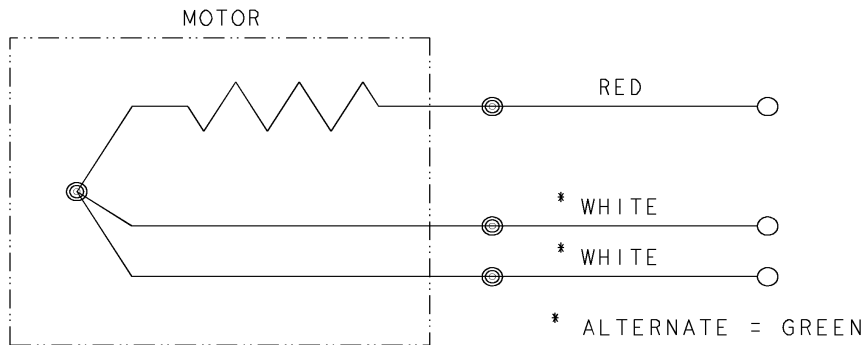
REV SH 1 1	THIRD ANGLE PROJECTION		REVISIONS		
		REV	DESCRIPTION	DATE	APPROVED
		1	ISAAC #12-1124	HARI	11/19/12

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	Fort Wayne, Indiana <h2>CONNECTION DIAGRAM</h2> BEARING RTDS
	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
		SCALE 1/1	DWG NO 235A3027NA
			SHEET 1 OF 1

DISTR TO

