

Product Information Packet

January 12, 2017

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

Model Number:	5KS513SAA328B
Catalog Number:	Q521
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	239C6C00GS

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:	5KS513SAA328B	Estimated Weight:	7150 Lbs
Outline Drawing:	239C6C00GS	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG2	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	50BD3064F	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	5013S	Insulation Class:	F
Phases:	3	NEMA Design:	--
Poles:	6	Nominal Efficiency:	96.2 %
Output Power:	600HP 444KW	Guaranteed Efficiency:	95.4
RPM:	1190	3/4 Load Efficiency:	96.5
Voltage:	2300/4000	KVA Code:	G
Hertz:	60	Max KVAR:	155.3
Amps - FL:	135.8/78.1	Power Factor:	86.0
Service Factor:	1.00	Bearing - DE:	6320ZC3
Alt Service Factor:	--	Bearing - ODE:	6320ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 350W
FOR DIRECT COUPLED LOAD ONLY

Additional Information:

6P - S EXTN
2500 CU IN - 2(4.00" NPT)
100 OHM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX
SUGGESTED WINDING RTD SETTINGS
ALARM 155C TRIP 165C
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

Performance Characteristics

1st Winding 1st Connection

Design: 50BD3064F

Marks:

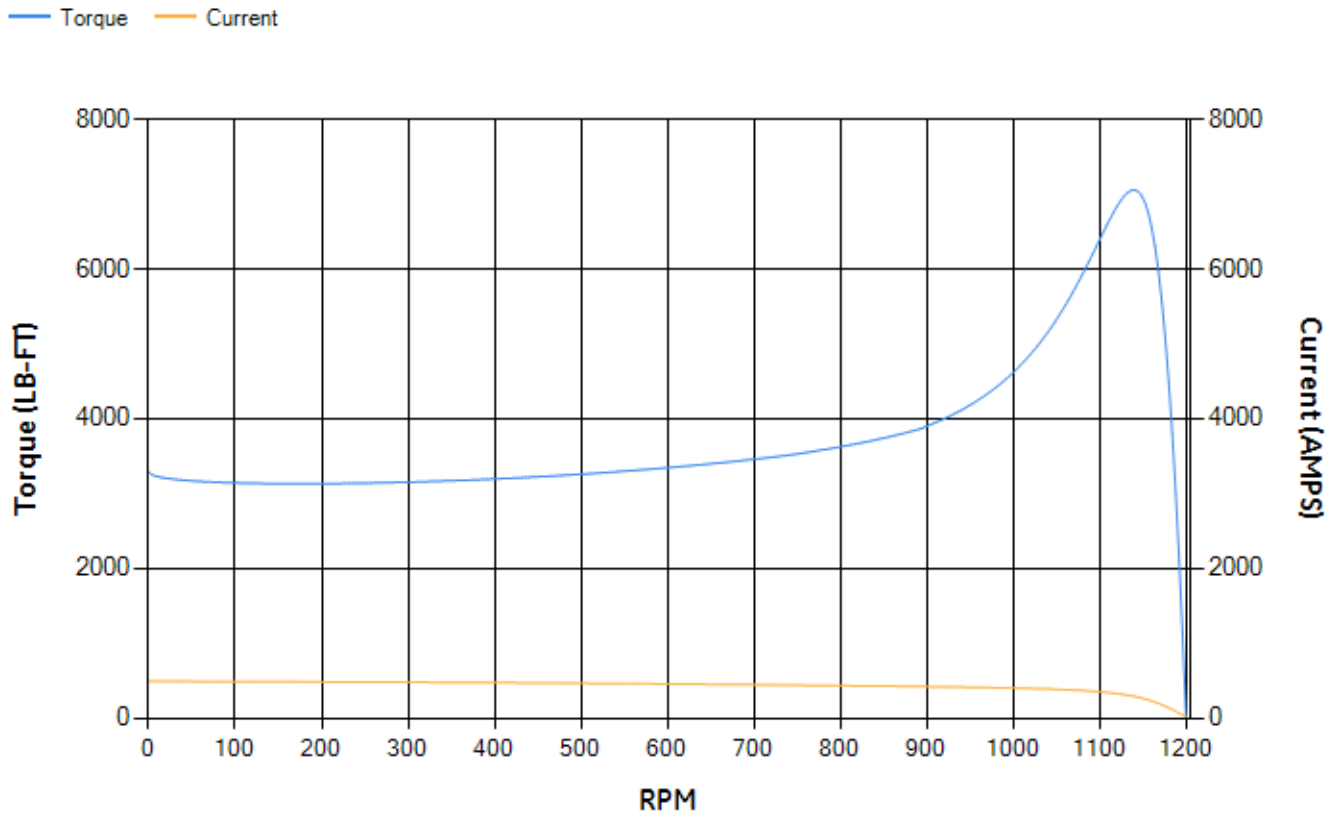
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.66	95.88	96.37	96.48	96.37	94.83	0.00
% PF	86.42	86.34	85.77	83.04	75.5	54.44	2.93
AMPS	97.65	89.71	78.15	60.46	44.38	31.27	24.91

TORQ(FL)#FT	2651.32	TORQ(LR)%FL	124.07	TORQ(BD)%FL	265.84
AMPS(LR)	490.82	PF AT START	0.24		

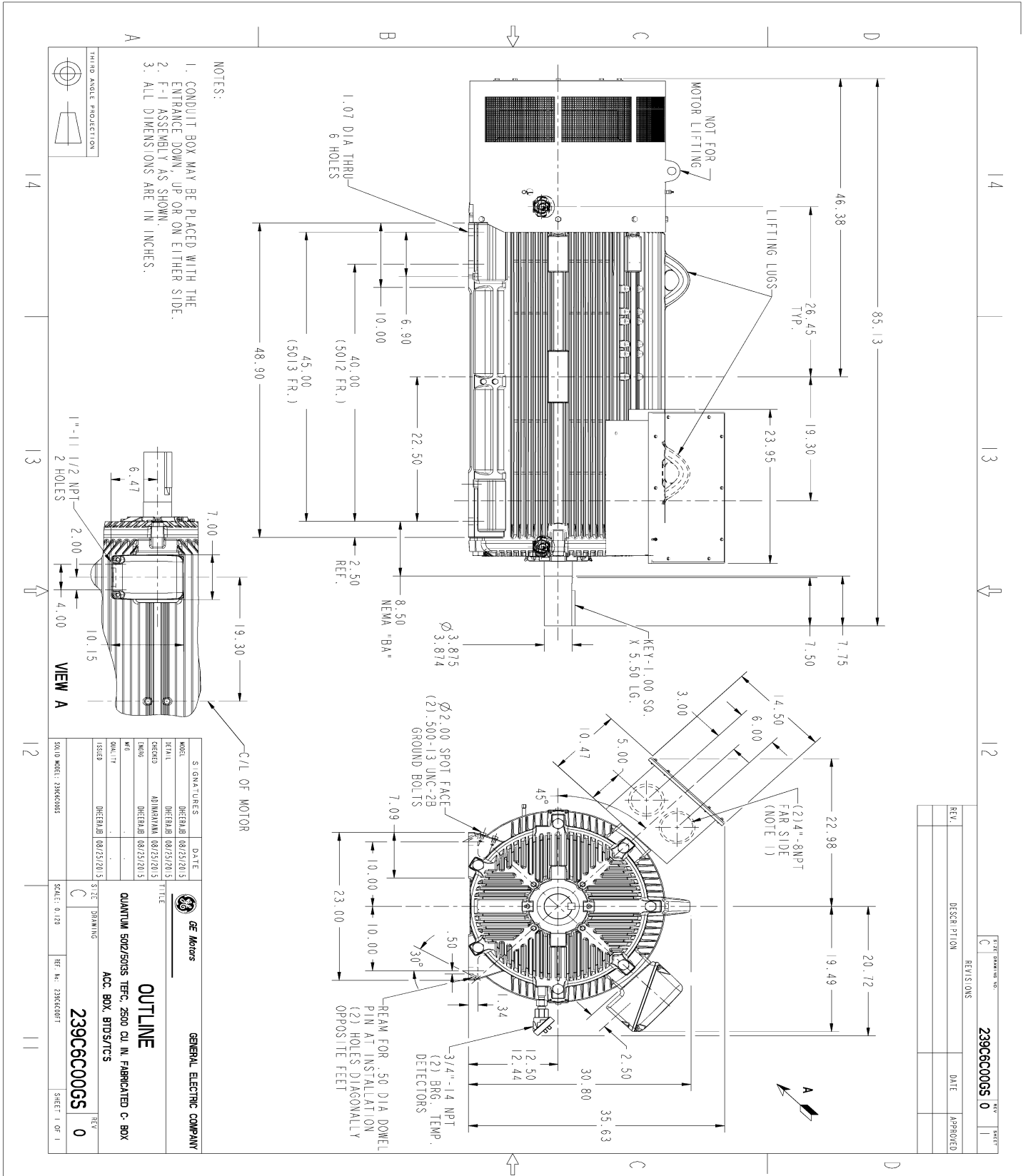
This motor is capable of two cold or one hot start with a maximum connected load inertia of 20429 Lb-Ft Sq (860.06 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 28 seconds. Safe stall time at 100% voltage is 87 seconds cold, 43 seconds hot. Rotor inertia is 369.52 Lb-Ft Sq (15.56 Kg-meter Sq).

Open Circuit A-C:	0.826	Short Circuit D-C:	0.037
Short Circuit A-C:	0.04	X/R Ratio:	14.103
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

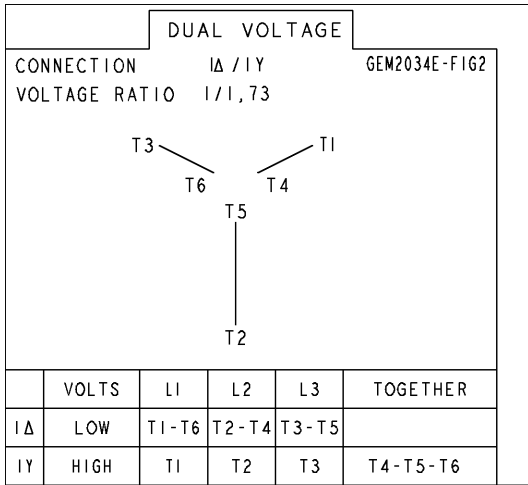


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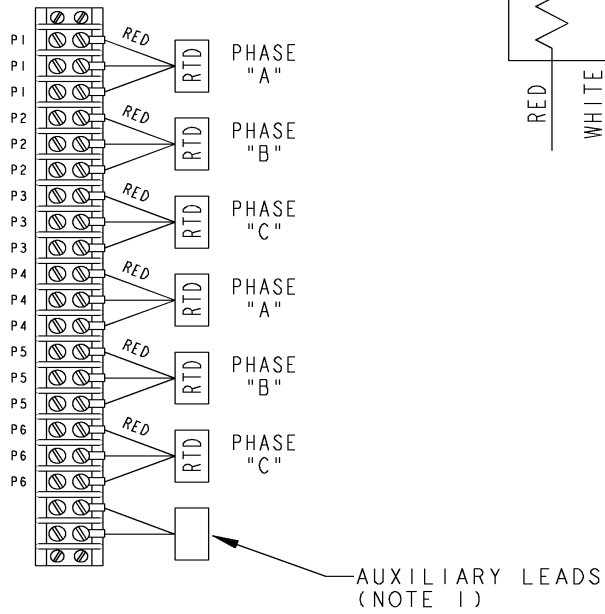
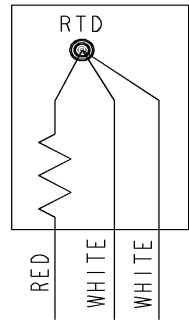
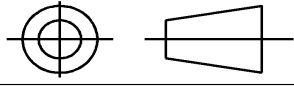
Connection Diagram
GEM2034E-FIG2



Heater Connection
3027JE-1C



SHEET 2 REV 235A3027XY SIZE A DRAWING NO.	GE PROPRIETARY INFORMATION <small>This document is the property of General Electric Company ("GE") and contains proprietary information of GE. This document is loaned on the express condition that neither it nor the information contained herein shall be disclosed to others without the express written consent of GE Industrial Systems, and that the information shall be used by the recipient only as approved expressly by GE Industrial Systems. This document shall be returned to GE upon its request. This document may be subject to certain restrictions under U.S. export control laws and regulations.</small>	REVISIONS		
		REV. 1 DESCRIPTION ISAAC# 15-0790 HARIKIRAN DATE 07/28/15 APPROVED DHEERAJ		
	REV. 2 DESCRIPTION THIRD ANGLE PROJECTION ISAAC# 16-0422 SAGAR K DATE 05/04/2016 APPROVED ADINARAYANA			



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: 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 ✓		SIGNATURES MODEL DETAIL VIVEK 06/26/15 CHECKED KARTHIK 06/26/15 ENGRG MFG QUALITY ISSUED VIVEK 06/26/15	DATE 06/26/15 06/26/15 06/26/15	GE Motors GENERAL ELECTRIC COMPANY
MATERIAL		SOLID MODEL: MODEL NAME		TITLE CONNECTION DIAGRAM WINDING RTD & AUXILIARY LEADS
SCALE: N.T.S.		REF: - 235A4594X		SIZE DRAWING A
			REV 2	SHEET 1 of 1

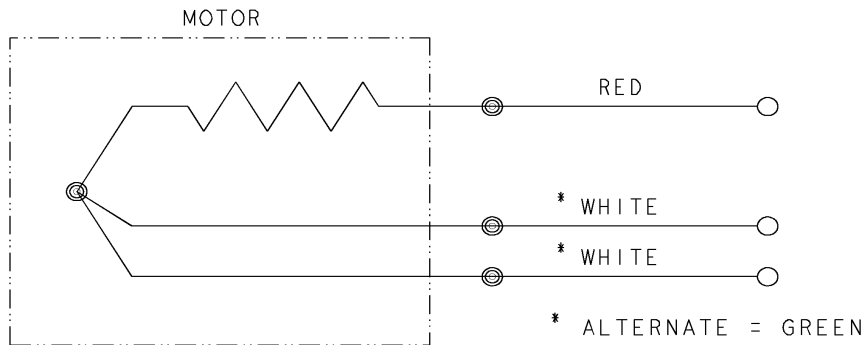
REV SH 1 1	THIRD ANGLE PROJECTION		REVISIONS			
			REV	DESCRIPTION	DATE	APPROVED
			1	ISAAC #12-1124	HARI	11/19/12

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	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	SHEET 1 OF 1	
SCALE 1/1					

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