

# Product Information Packet

January 12, 2017

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

<b>Model Number:</b>	<b>5KS509SAA267A</b>
<b>Catalog Number:</b>	<b>Q593</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG25
<b>Outline Drawing:</b>	239C6A00HG

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	235A3027NA		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS509SAA267A</b>	<b>Estimated Weight:</b>	4534 Lbs
<b>Outline Drawing:</b>	239C6A00HG	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG25	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	50BD1162B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	509LL	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	96.2 %
<b>Output Power:</b>	400HP 296KW	<b>Guaranteed Efficiency:</b>	95.4
<b>RPM:</b>	1785	<b>3/4 Load Efficiency:</b>	96.5
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	87.5
<b>Amps - FL:</b>	352.0	<b>Power Factor:</b>	88.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6320ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6315ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

HTR LDS HE1-HE2 115V 350W  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 0-60 HZ  
 FOR DIRECT COUPLED LOAD ONLY

**Additional Information:**

4P - LL EXTN - SPLIT LEAD  
 1260 CU IN - 2(4.00" NPT)  
 C/B GRD PLATE  
 115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX  
 SPACE HEATER CAUTION NAMEPLATE  
 NEMA TYPE GRD PAD  
 F1 MOUNTING  
 PROVISION FOR BTD ON BOTH ENDS PLUGGED

**Performance Characteristics**

1st Winding 1st Connection

**Design: 50BD1162B**

**Marks:**

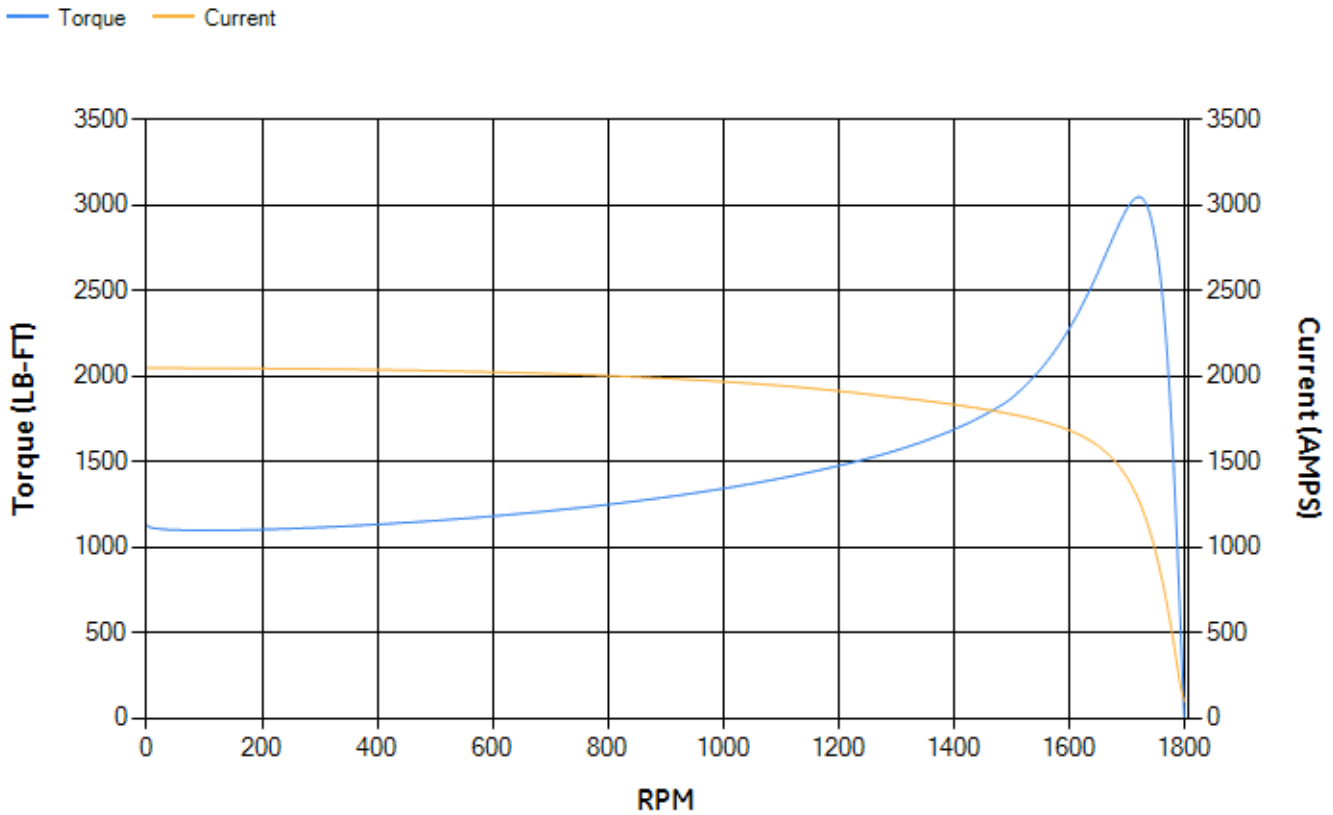
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.02	96.18	96.57	96.5	96.17	94.19	0.00
% PF	88.89	88.9	88.56	86.54	80.42	61.13	4.17
AMPS	438.61	402.81	350.46	268.98	193.62	130.03	97.67

<b>TORQ(FL)#FT</b>	1176.31	<b>TORQ(LR)%FL</b>	95.8	<b>TORQ(BD)%FL</b>	258.79
<b>AMPS(LR)</b>	2046.08	<b>PF AT START</b>	0.21		

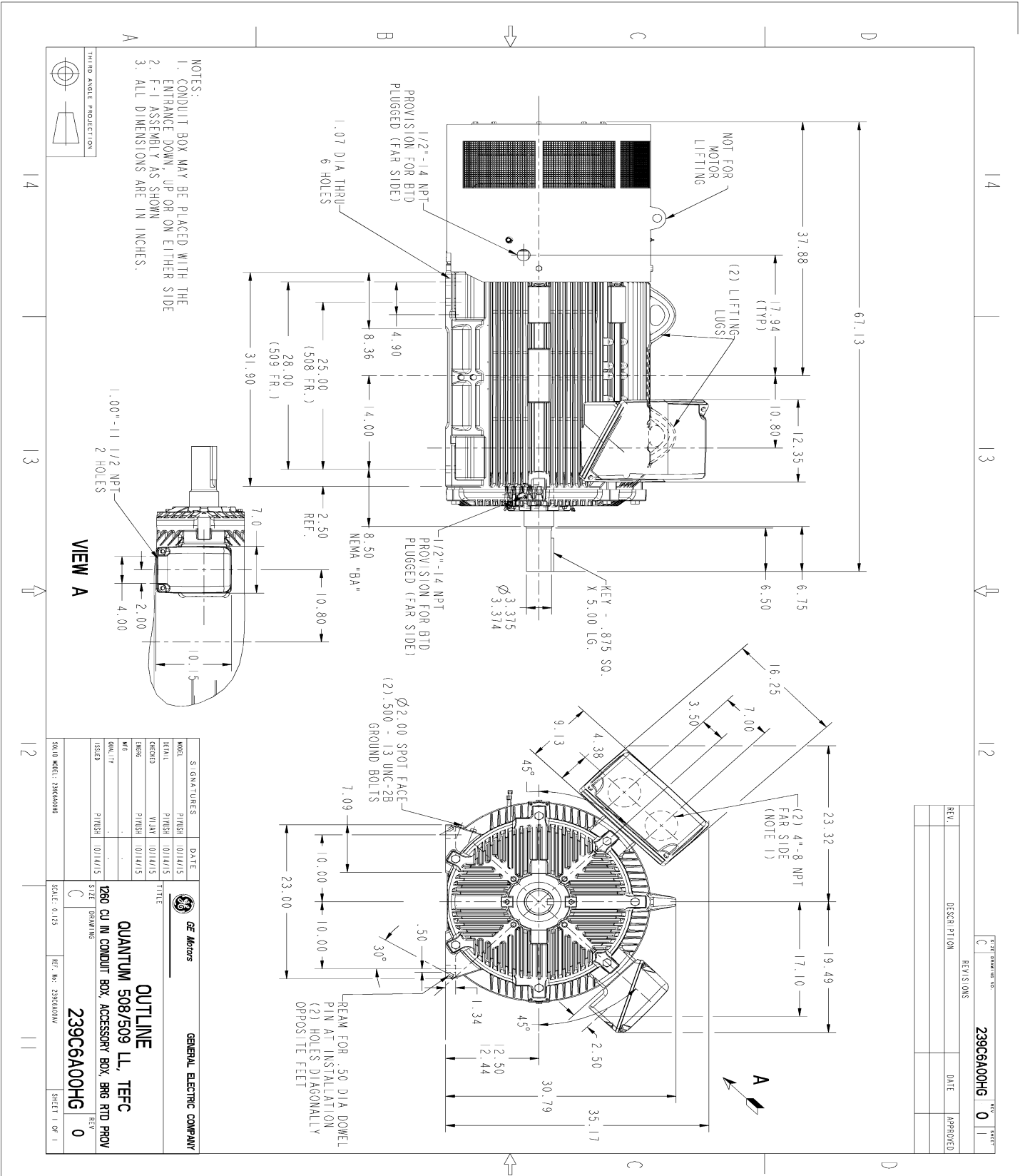
This motor is capable of two cold or one hot start with a maximum connected load inertia of 8632 Lb-Ft Sq (363.41 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 47 seconds. Safe stall time at 100% voltage is 91 seconds cold, 57 seconds hot. Rotor inertia is 131.51 Lb-Ft Sq (5.54 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.152	<b>Short Circuit D-C:</b>	0.043
<b>Short Circuit A-C:</b>	0.05	<b>X/R Ratio:</b>	16.197
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

**Speed Torque Current Curve (First Connection, First Speed)**

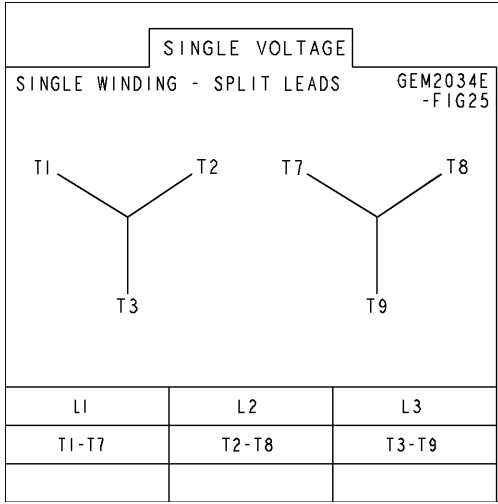


Marks:



Marks:

**Connection Diagram**  
GEM2034E-FIG25



**Heater Connection**  
3027JE-1C



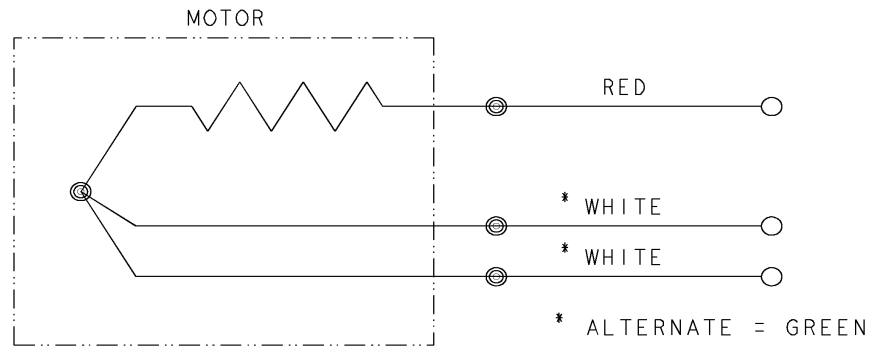


REV SH	THIRD ANGLE PROJECTION	REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED
		1	ISAAC #12-1124	HARI	11/19/12

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	<b>GE Motors</b> 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	CONNECTION DIAGRAM BEARING RTDS	
	CAD NO. F500:235A3027NA	SIZE A	FSCM NO	DWG NO 235A3027NA
		SCALE 1/1		SHEET 1 OF 1

DISTR TO

