

# Product Information Packet

January 12, 2017

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

<b>Model Number:</b>	<b>5KS509SAA263A</b>
<b>Catalog Number:</b>	<b>Q585</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG20
<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>5KS509SAA263A</b>	<b>Estimated Weight:</b>	4301 Lbs
<b>Outline Drawing:</b>	239C6A00HG	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG20	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	50BD1172B	<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>	350HP 259KW	<b>Guaranteed Efficiency:</b>	95.4
<b>RPM:</b>	1785	<b>3/4 Load Efficiency:</b>	96.6
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	78.1
<b>Amps - FL:</b>	308.0	<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**

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**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: 50BD1172B**

Marks:

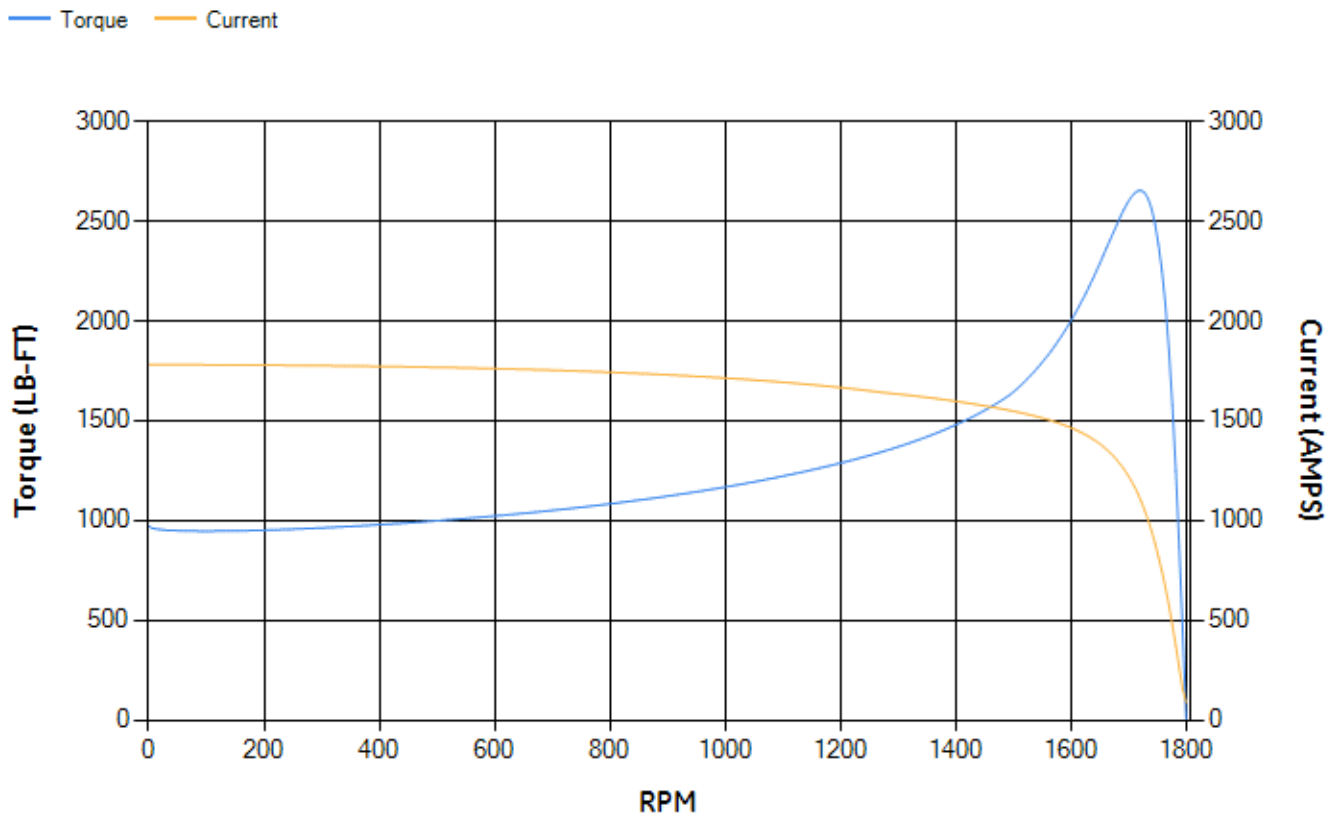
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.99	96.16	96.58	96.55	96.3	94.5	0.00
% PF	88.73	88.73	88.36	86.26	79.96	60.35	3.82
AMPS	384.6	353.2	307.33	236	170.16	114.87	87.08

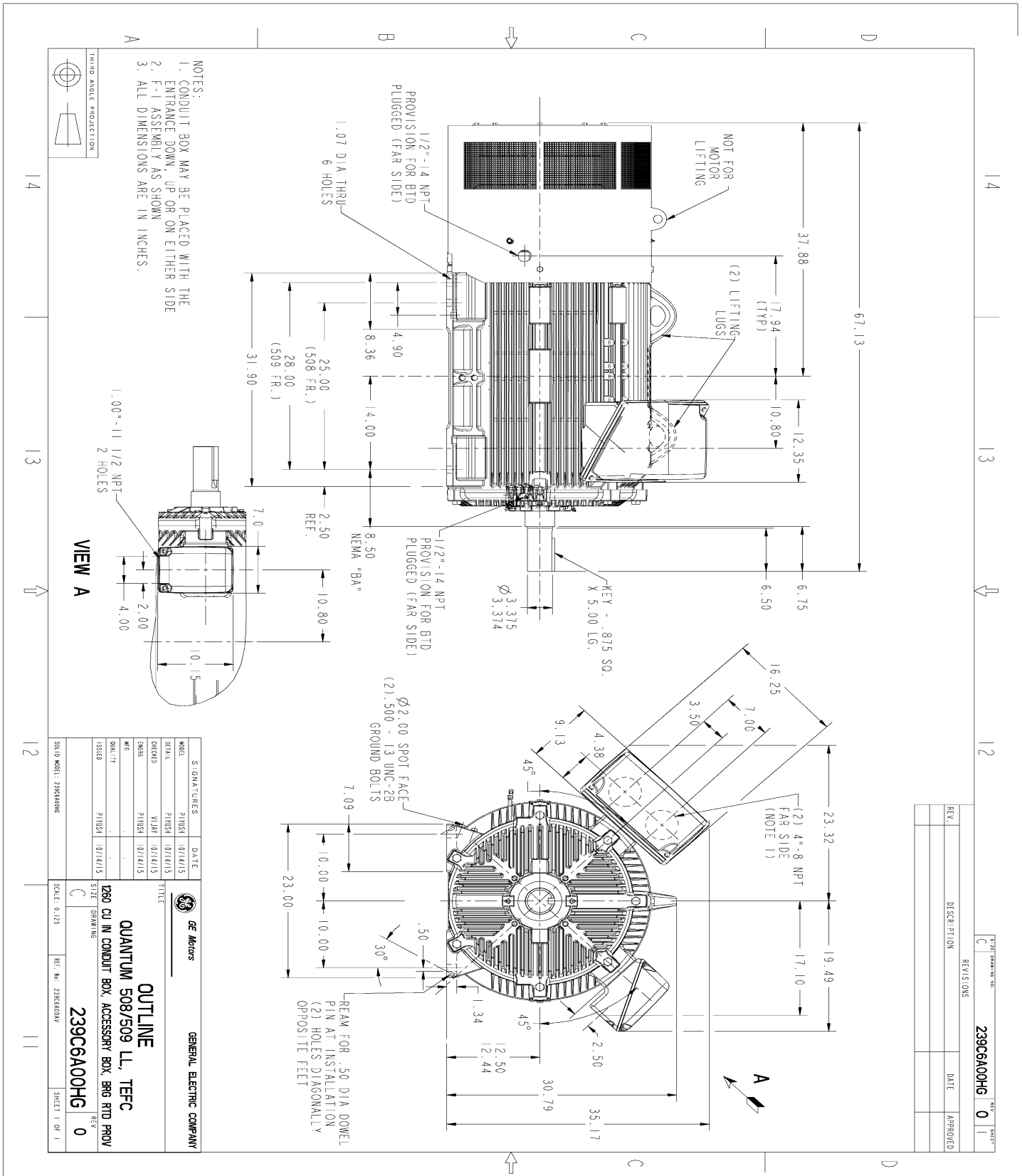
TORQ(FL)#FT	1029.52	TORQ(LR)%FL	94.4	TORQ(BD)%FL	257.57
AMPS(LR)	1780.48	PF AT START	0.22		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 7533 Lb-Ft Sq (317.14 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 48 seconds. Safe stall time at 100% voltage is 93 seconds cold, 57 seconds hot. Rotor inertia is 113.98 Lb-Ft Sq (4.8 Kg-meter Sq).

Open Circuit A-C:	1.101	Short Circuit D-C:	0.041
Short Circuit A-C:	0.049	X/R Ratio:	15.403
Stator Slots:	72	Rotor Slots:	58

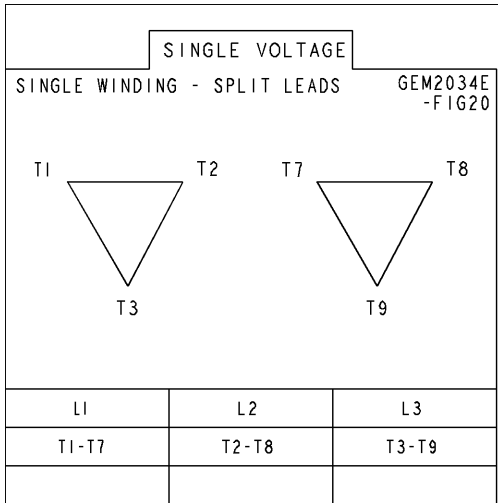
**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
GEM2034E-FIG20



**Heater Connection**  
3027JE-1C



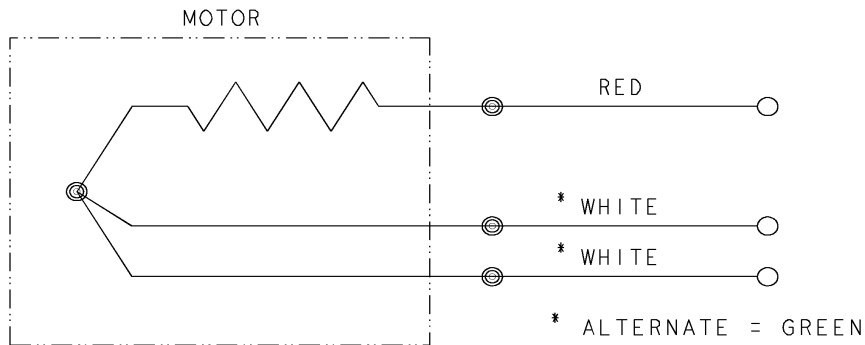


REV   1 SH   SIZE   A DWG NO   235A3027NA	THIRD ANGLE PROJECTION		REVISIONS			
			REV	DESCRIPTION	DATE	APPROVED
			1	ISAAC #12-1124	HARI	11/19/12

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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	SIZE	FSCM NO	DWG NO
			A		235A3027NA
	CAD NO. F500:235A3027NA		SCALE	1/1	SHEET 1 OF 1

DISTR TO

