

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS447LAA323B</b>
<b>Catalog Number:</b>	<b>M7693</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239CC800AA

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS447LAA323B</b>	<b>Estimated Weight:</b>	2510 Lbs
<b>Outline Drawing:</b>	239CC800AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	49BD3086A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	447T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	95.8 %
<b>Output Power:</b>	150HP 111KW	<b>Guaranteed Efficiency:</b>	95.0
<b>RPM:</b>	1195	<b>3/4 Load Efficiency:</b>	95.7
<b>Voltage:</b>	460	<b>KVA Code:</b>	J
<b>Hertz:</b>	60	<b>Max KVAR:</b>	60.3
<b>Amps - FL:</b>	182.0	<b>Power Factor:</b>	80.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	NU 318
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6318ZC3S0

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

ROLLER BEARING - FOR BELTED LOAD ONLY  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 0-60 HZ

**Additional Information:**

6P - T EXTN  
 700 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL  
 F1 MOUNTING  
 VIBRATION LIMIT 0.0024 INCH PEAK TO PEAK

**Performance Characteristics**

1st Winding 1st Connection

**Design: 49BD3086A**

**Marks:**

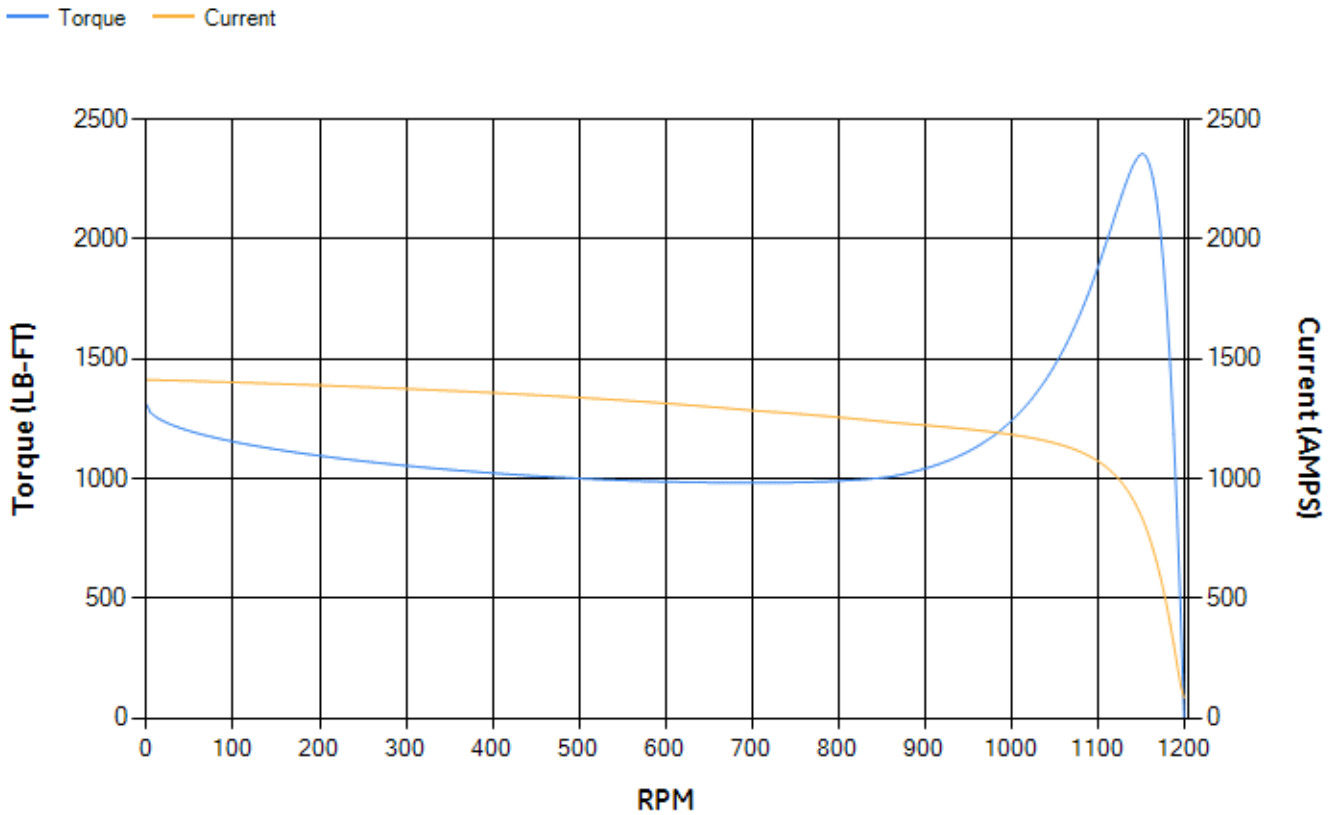
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.3	95.46	95.85	95.75	95.28	92.76	0.00
% PF	83.32	82.39	80.4	74.6	63.02	40.23	2.8
AMPS	221	205.26	182.18	147.41	116.9	94.04	83.79

<b>TORQ(FL)#FT</b>	659.89	<b>TORQ(LR)%FL</b>	198.35	<b>TORQ(BD)%FL</b>	356.64
<b>AMPS(LR)</b>	1412.86	<b>PF AT START</b>	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 9332 Lb-Ft Sq (392.88 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 39 seconds. Safe stall time at 100% voltage is 95 seconds cold, 57 seconds hot. Rotor inertia is 115.65 Lb-Ft Sq (4.87 Kg-meter Sq).

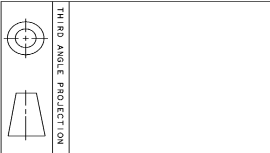
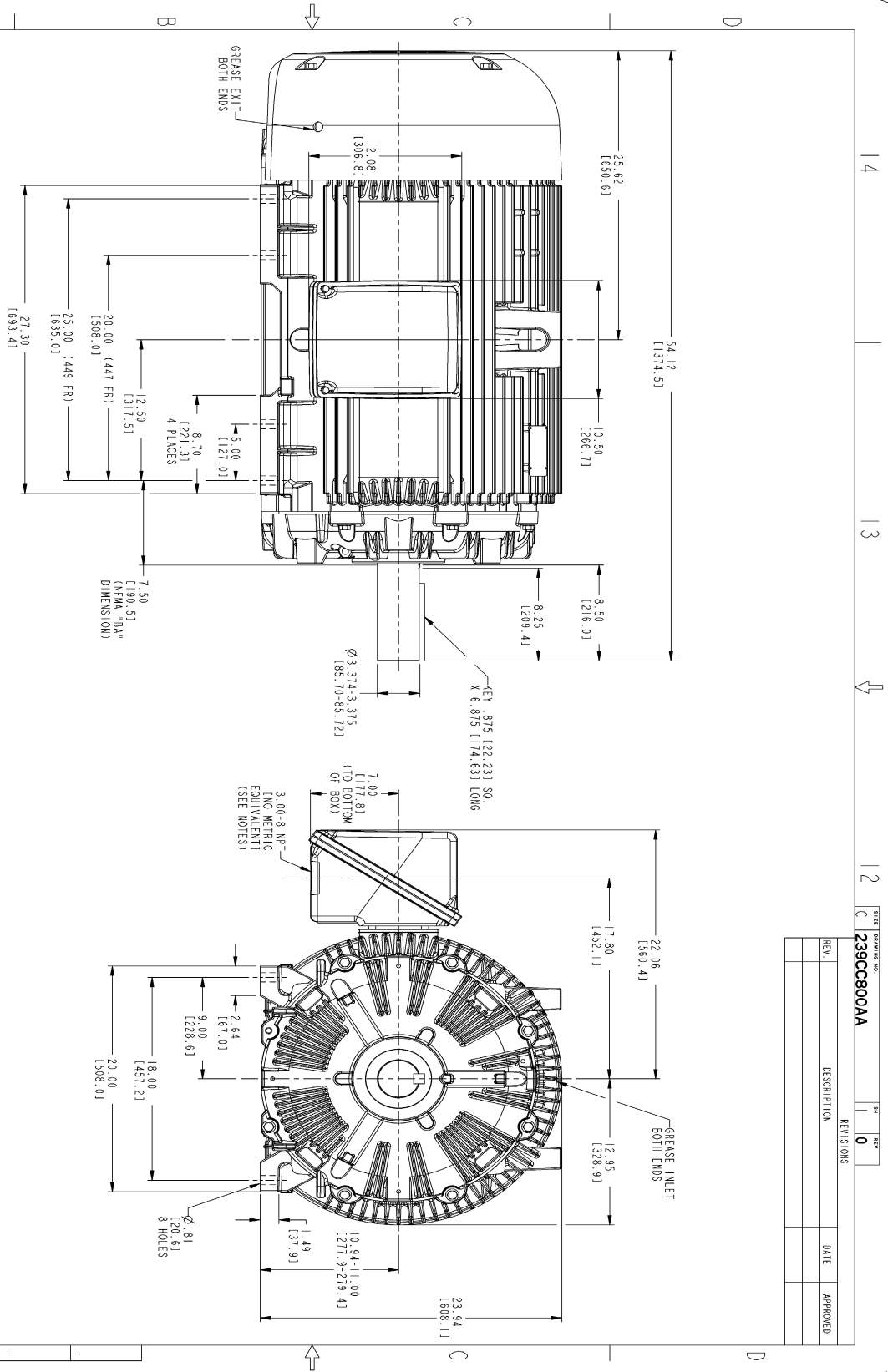
<b>Open Circuit A-C:</b>	0.96	<b>Short Circuit D-C:</b>	0.024
<b>Short Circuit A-C:</b>	0.052	<b>X/R Ratio:</b>	8.921
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



NAME:501352727 OBJECT:239CC800AA DATE:31-Jul-07 14:14:01

Marks:



REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	
DESIGNED	01/21/07	
DRAWN	01/21/07	
CHECKED	01/21/07	
APPROVED	01/21/07	

GENERAL ELECTRIC COMPANY  
Fort Wayne, Indiana

**OUTLINE**  
447/449 T TEFC ESP  
700 CU. IN. CONDUIT BOX  
239CC800AA

SCALE: 0.180 REF. NO:  

SHEET 1 OF 1

DISTRIBUTION: MMP

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**

