

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS449LAA311B</b>
<b>Catalog Number:</b>	<b>M7158</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239CC800AA

<b>Accessory Connection Diagrams</b>			
<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		

<b>Table of Contents</b>	
Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04

**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS449LAA311B</b>	<b>Estimated Weight:</b>	2860 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>	49BD3087B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	449T	<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>	200HP 148KW	<b>Guaranteed Efficiency:</b>	95.0
<b>RPM:</b>	1190	<b>3/4 Load Efficiency:</b>	96.0
<b>Voltage:</b>	575	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	59.1
<b>Amps - FL:</b>	184.0	<b>Power Factor:</b>	85.0
<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**

---

**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: 49BD3087B**

**Marks:**

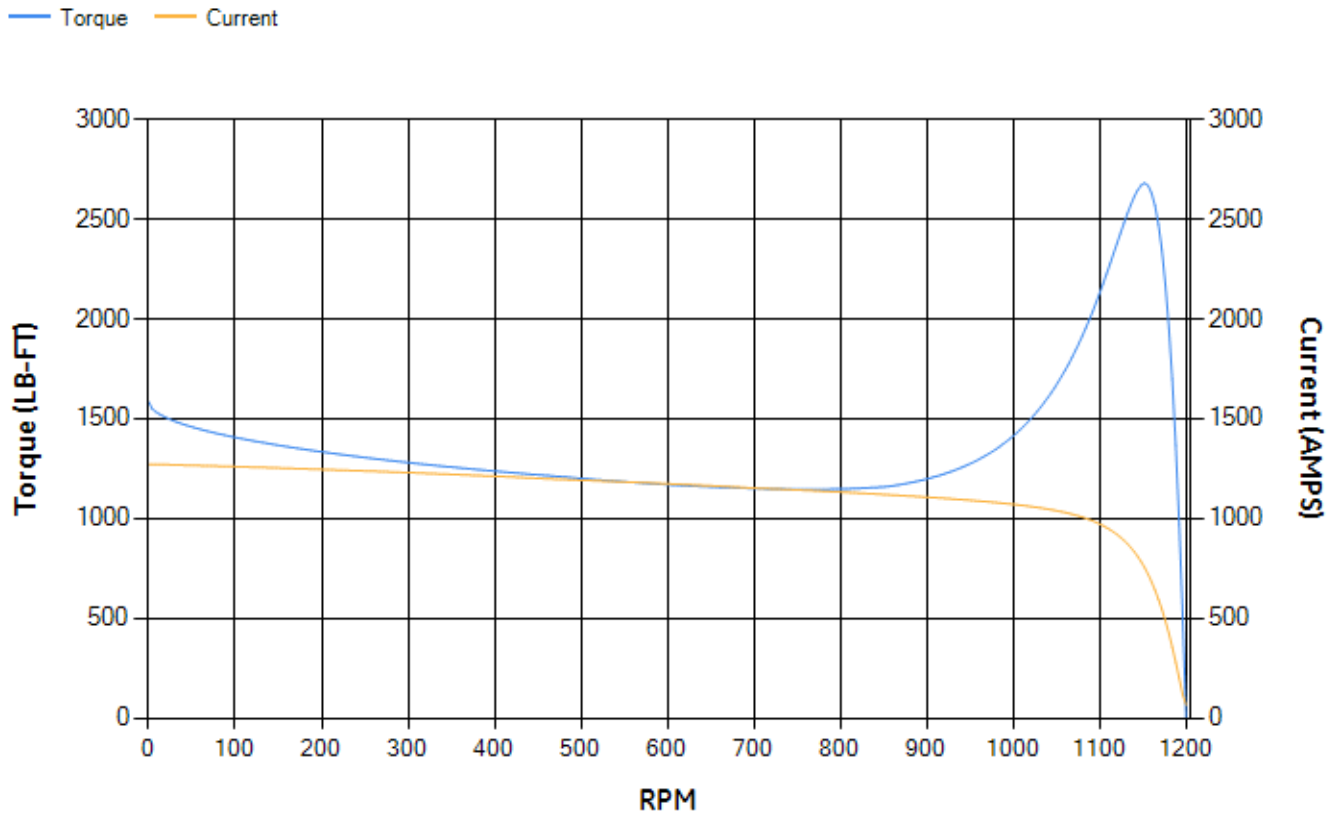
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.17	95.41	95.92	96.04	95.92	94.19	0.00
% PF	86.32	85.95	84.93	81.24	72.32	50.13	2.89
AMPS	227.85	209.99	183.82	143.95	107.93	79.29	65.73

<b>TORQ(FL)#FT</b>	880.94	<b>TORQ(LR)%FL</b>	179.95	<b>TORQ(BD)%FL</b>	303.85
<b>AMPS(LR)</b>	1272.08	<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 11685 Lb-Ft Sq (491.94 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 43 seconds. Safe stall time at 100% voltage is 105 seconds cold, 57 seconds hot. Rotor inertia is 164.86 Lb-Ft Sq (6.94 Kg-meter Sq).

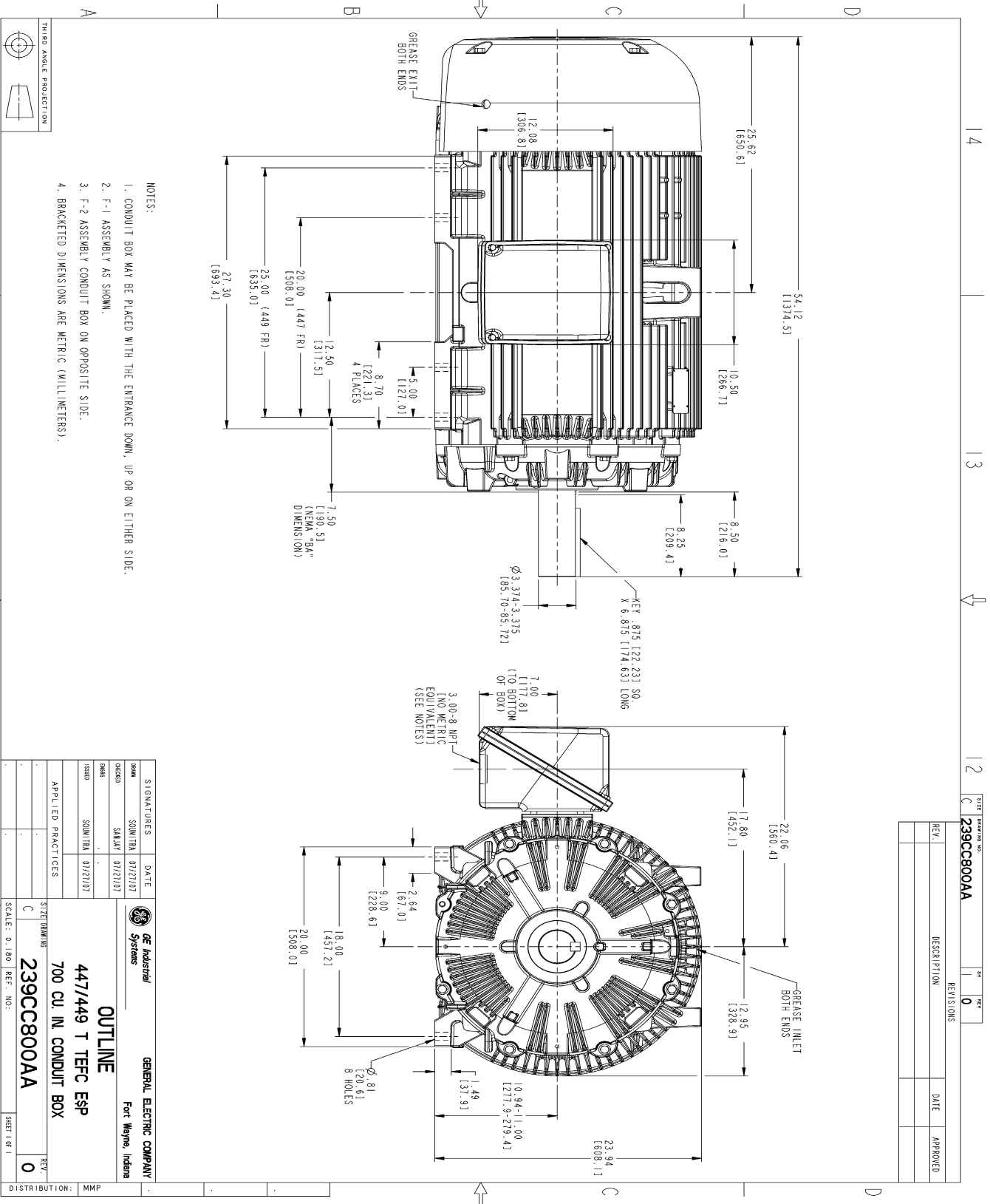
<b>Open Circuit A-C:</b>	1.07	<b>Short Circuit D-C:</b>	0.025
<b>Short Circuit A-C:</b>	0.05	<b>X/R Ratio:</b>	9.504
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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

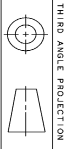


NAME:501352727 OBJECT:239CC800AA DATE:31-Jul-07 14:14:01

Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASSEMBLY AS SHOWN.
  3. F-2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE.
  4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



DRAWING NO.		REV.	
239CC800AA		10	
REVISIONS		DATE	
REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	<p>GENERAL ELECTRIC COMPANY Fort Wayne, Indiana</p> <p><b>OUTLINE</b> 447/449 T TEFC ESP 700 CU. IN. CONDUIT BOX <b>239CC800AA</b></p>	
DESIGNED	01/21/07		
DRAWN	01/21/07		
CHECKED	01/21/07		
ISSUED	01/21/07		
APPLIED PRACTICES	SIZING	SCALE: 0.180 REF. NO:	
		SHEET 1 OF 1	
DISTRIBUTION:	MMP	REV.	0

Marks:

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

