

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS405LAA114D1</b>
<b>Catalog Number:</b>	<b>M7913</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239CC400AB

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>5KS405LAA114D1</b>	<b>Estimated Weight:</b>	1430 Lbs
<b>Outline Drawing:</b>	239CC400AB	<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>	40BD0037B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	405TS	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	95.0 %
<b>Output Power:</b>	100HP 74KW	<b>Guaranteed Efficiency:</b>	94.1
<b>RPM:</b>	3570	<b>3/4 Load Efficiency:</b>	95.3
<b>Voltage:</b>	575	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	25.6
<b>Amps - FL:</b>	89.6	<b>Power Factor:</b>	88.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6213ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6213ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:  
 1.0 SF VAR TORQUE RANGE 0-60 HZ

**Additional Information:**

2P - TS EXTN  
 700 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 F1 MOUNTING  
 VIBRATION LIMIT 0.15 INCH PER SEC

**Performance Characteristics**

1st Winding 1st Connection

**Design: 40BD0037B**

**Marks:**

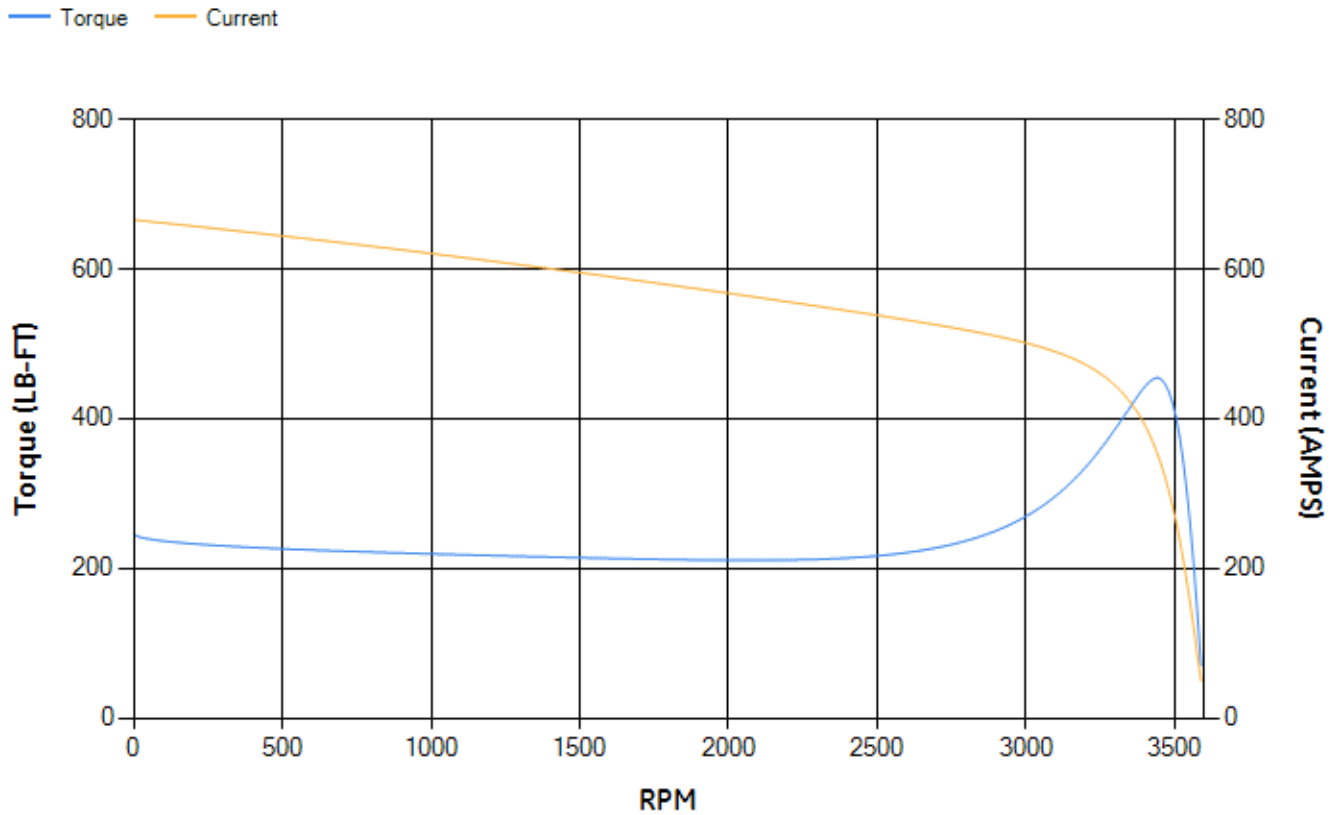
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.91	95.07	95.45	95.31	94.72	91.81	0.00
% PF	89.24	88.97	88.19	85.23	77.66	56.77	5.14
AMPS	110.51	101.8	88.95	69.13	50.89	35.91	28.5

TORQ(FL)#FT	147.07	TORQ(LR)%FL	167.47	TORQ(BD)%FL	308.96
AMPS(LR)	665.68	PF AT START	0.23		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 303 Lb-Ft Sq (12.76 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 19 seconds. Safe stall time at 100% voltage is 49 seconds cold, 23 seconds hot. Rotor inertia is 11.6 Lb-Ft Sq (0.49 Kg-meter Sq).

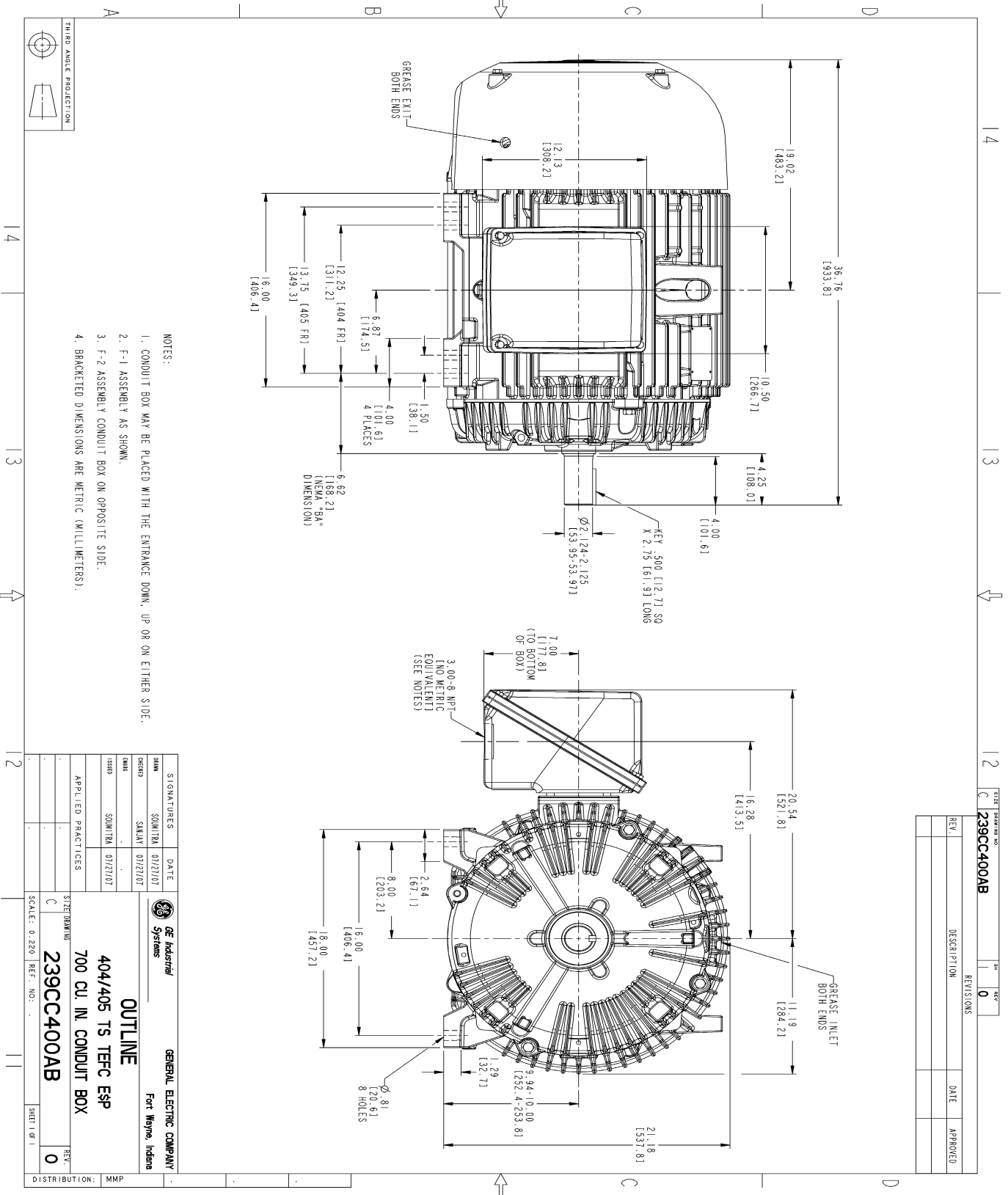
Open Circuit A-C:	0.964	Short Circuit D-C:	0.027
Short Circuit A-C:	0.045	X/R Ratio:	10.326
Stator Slots:	48	Rotor Slots:	38

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



NAME:501352727 OBJECT:239CC400AB DATE:31-Jul-07 12:39:14

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).

REV.	DESCRIPTION	DATE	APPROVED
0			

DATE	BY	DESCRIPTION
07/27/07	SAJAY	ISSUED
07/27/07	SCOTT	APPROVED

SCALE: 0.220	REF. NO.:
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GENERAL ELECTRIC COMPANY	Fort Wayne, Indiana
<b>OUTLINE</b>	
404/405 TS TERC ESP	
700 CU. IN. CONDUIT BOX	
239CC400AB	

DISTRIBUTION: MMP

Marks:

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

