

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS405LAA208D</b>
<b>Catalog Number:</b>	<b>M7936</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239CC400AA

<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>5KS405LAA208D</b>	<b>Estimated Weight:</b>	1440 Lbs
<b>Outline Drawing:</b>	239CC400AA	<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>	40BD1084A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	405T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	95.4 %
<b>Output Power:</b>	100HP 74KW	<b>Guaranteed Efficiency:</b>	94.5
<b>RPM:</b>	1785	<b>3/4 Load Efficiency:</b>	95.6
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	36.4
<b>Amps - FL:</b>	122.0	<b>Power Factor:</b>	80.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6316ZC3S0
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6316ZC3S0

**Enclosure is Totally Enclosed Fan-Cooled**

---

**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:**

4P - T 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: 40BD1084A**

**Marks:**

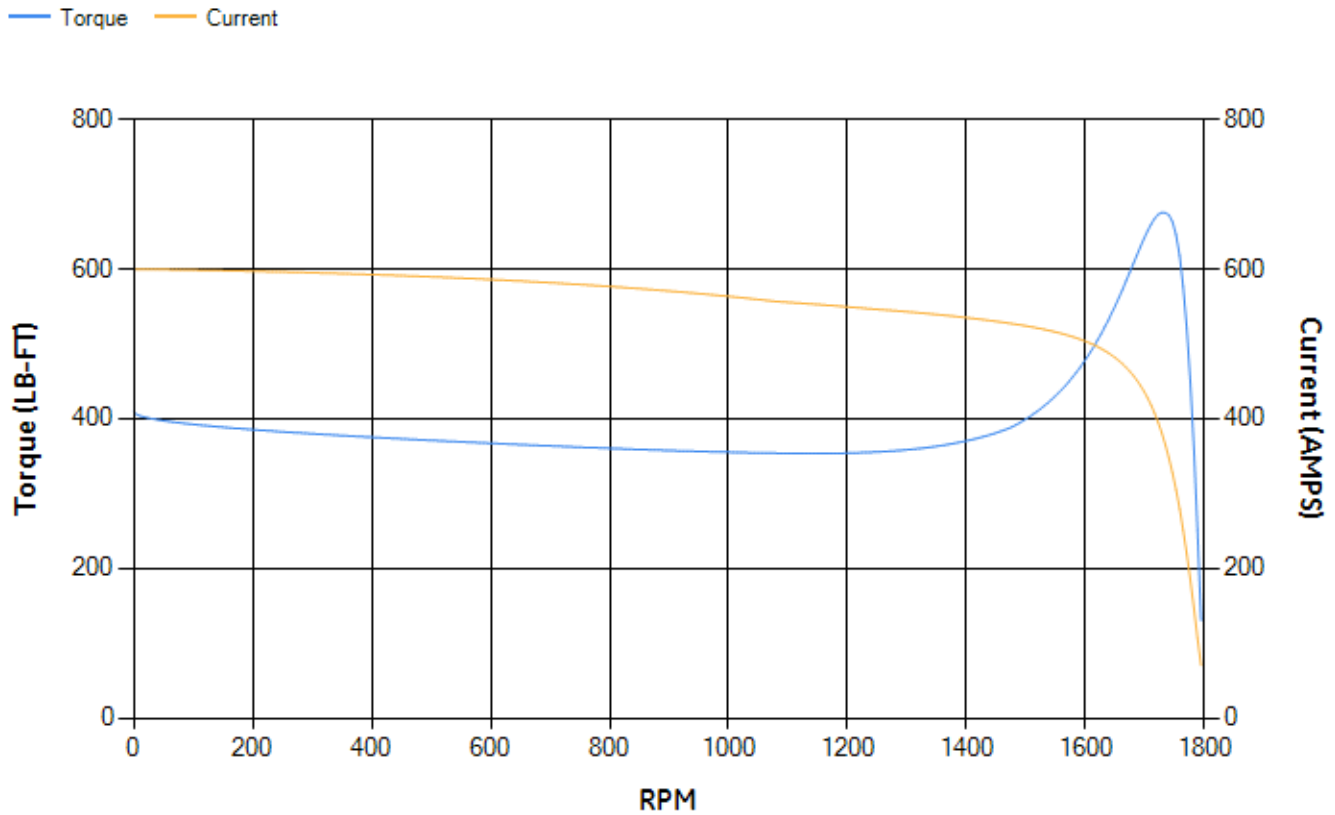
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.86	95.09	95.58	95.63	95.33	93.08	0.00
% PF	82.38	81.91	80.61	76.05	65.78	43.32	2.86
AMPS	149.72	138.19	121.48	96.52	74.63	58.03	50.63

<b>TORQ(FL)#FT</b>	294.36	<b>TORQ(LR)%FL</b>	139.06	<b>TORQ(BD)%FL</b>	229.2
<b>AMPS(LR)</b>	599.81	<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 2082 Lb-Ft Sq (87.65 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 41 seconds. Safe stall time at 100% voltage is 106 seconds cold, 50 seconds hot. Rotor inertia is 21.75 Lb-Ft Sq (0.92 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.662	<b>Short Circuit D-C:</b>	0.031
<b>Short Circuit A-C:</b>	0.047	<b>X/R Ratio:</b>	11.511
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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





Marks:

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

