

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS326LAA230B</b>
<b>Catalog Number:</b>	<b>M7661</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	239CC001AA

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>5KS326LAA230B</b>	<b>Estimated Weight:</b>	700 Lbs
<b>Outline Drawing:</b>	239CC001AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG9	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	32BD1225A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	326TC	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	94.5 %
<b>Output Power:</b>	50HP 37KW	<b>Guaranteed Efficiency:</b>	93.6
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	94.6
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	20.5
<b>Amps - FL:</b>	125.4/62.7	<b>Power Factor:</b>	79.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6312ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6312ZC3

**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:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 0-60 HZ

**Additional Information:**

4P - T EXTN  
 C FACE ON DE  
 346 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: 32BD1225A**

**Marks:**

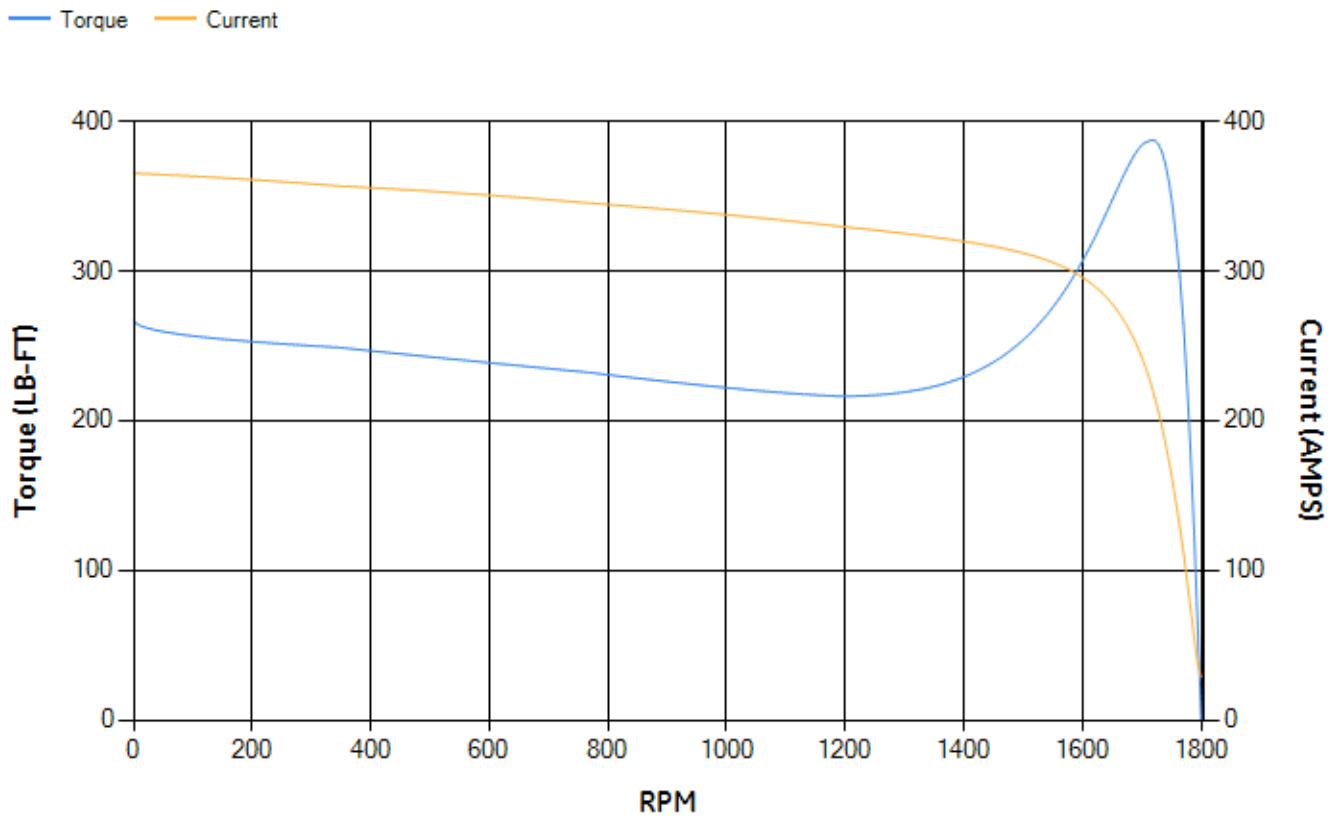
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.82	94.08	94.57	94.58	94.08	91.07	0.00
% PF	81.49	80.72	78.95	73.45	62.2	39.91	3.27
AMPS	76.51	70.87	62.55	50.52	39.98	32.19	28.58

<b>TORQ(FL)#FT</b>	147.53	<b>TORQ(LR)%FL</b>	181.22	<b>TORQ(BD)%FL</b>	261.6
<b>AMPS(LR)</b>	365.29	<b>PF AT START</b>	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1100 Lb-Ft Sq (46.31 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 32 seconds. Safe stall time at 100% voltage is 77 seconds cold, 39 seconds hot. Rotor inertia is 8.29 Lb-Ft Sq (0.35 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.467	<b>Short Circuit D-C:</b>	0.023
<b>Short Circuit A-C:</b>	0.03	<b>X/R Ratio:</b>	8.528
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

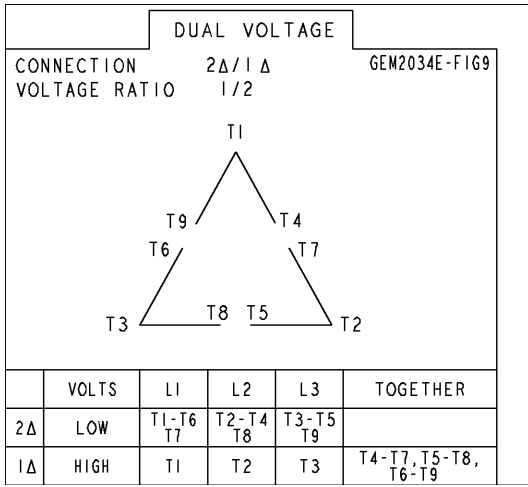
**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4203AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6900G04
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	