

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS254STE104A</b>
<b>Catalog Number:</b>	<b>M7507</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	358B6272AA

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>5KS254STE104A</b>	<b>Estimated Weight:</b>	279 Lbs
<b>Outline Drawing:</b>	358B6272AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	25AD0015B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	254T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	91 %
<b>Output Power:</b>	15HP 11.1KW	<b>Guaranteed Efficiency:</b>	89.5
<b>RPM:</b>	3530	<b>3/4 Load Efficiency:</b>	90.4
<b>Voltage:</b>	575	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	3.2
<b>Amps - FL:</b>	13.4	<b>Power Factor:</b>	92
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZZ
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6208ZZ

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:****Additional Information:**

2 POLE, TEFC, LRA: 95.8 AMPS.  
 SOUND POWER : 94 DBA  
 GREASE: SHELL ALVANIA R3 LITHIUM GREASE  
 NO. OF MOTOR LEADS: 3  
 CONDUIT BOX VOLUME (CU IN): 100.5  
 CONDUIT BOX MATERIAL: CAST IRON  
 SUITABLE FOR USE IN CLASS I DIVISION 2 LOCATIONS  
 CLASS I DIVISION 2 GROUPS A,B,C,D T3C  
 CLASS I ZONE 2 IIC T3C

**Performance Characteristics**

1st Winding 1st Connection

**Design: 25AD0015B**

**Marks:**

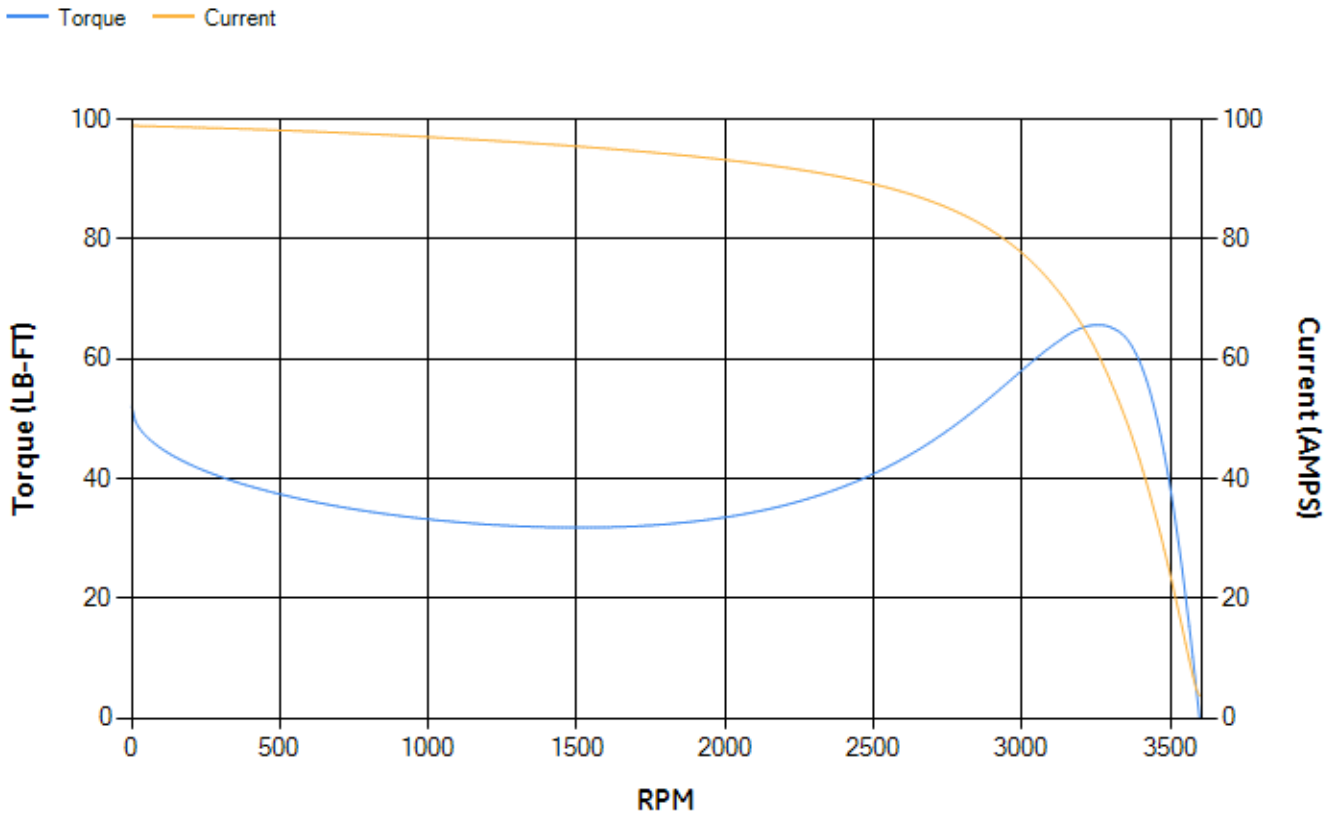
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.4	89.77	90.39	90.39	89.33	83.97	0.00
% PF	92.45	92.26	91.68	89.48	83.66	66.17	13.11
AMPS	16.99	15.6	13.55	10.41	7.51	5.05	3.64

TORQ(FL)#FT	22.3	TORQ(LR)%FL	233.56	TORQ(BD)%FL	290.43
AMPS(LR)	98.92	PF AT START	0.35		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 91 Lb-Ft Sq (3.83 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 54 seconds cold, 39 seconds hot. Rotor inertia is 1.06 Lb-Ft Sq (0.04 Kg-meter Sq).

Open Circuit A-C:	0.524	Short Circuit D-C:	0.014
Short Circuit A-C:	0.016	X/R Ratio:	5.119
Stator Slots:	36	Rotor Slots:	44

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





Marks:

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

