

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS286STE112A</b>
<b>Catalog Number:</b>	<b>M7722</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG210
<b>Outline Drawing:</b>	358B6279AD

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>5KS286STE112A</b>	<b>Estimated Weight:</b>	450 Lbs
<b>Outline Drawing:</b>	358B6279AD	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG210	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	28AD0012A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	286TSC	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	91.7 %
<b>Output Power:</b>	30HP 22.2KW	<b>Guaranteed Efficiency:</b>	90.2
<b>RPM:</b>	3545	<b>3/4 Load Efficiency:</b>	93.2
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	4.9
<b>Amps - FL:</b>	67.2/33.6	<b>Power Factor:</b>	91.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6310ZZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6210ZZC3

**Enclosure is Totally Enclosed Fan-Cooled**

**Stamped Nameplate Notes:**

USABLE AT 200V @ 30 HP, 77.8 AMPS @ 1.0 SF

LRA: 406/203

50HZ DATA: 25 HP,200/400V,73.2/36.6 AMPS @ 1.15 SF

50HZ DATA: 30 HP,200/400V,77.4/38.7 AMPS @ 1.00 SF

GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE

**Additional Information:**

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: 28AD0012A**

**Marks:**

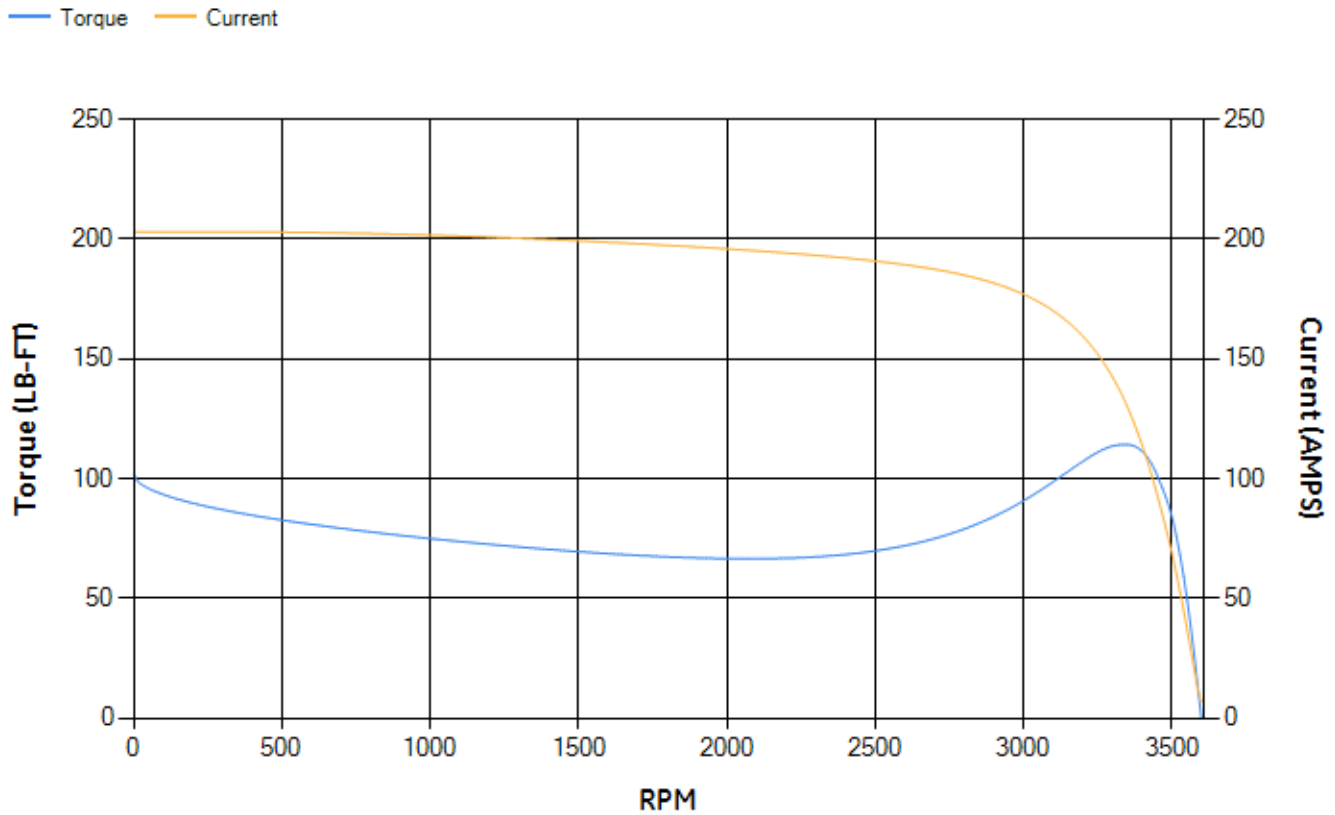
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.02	92.38	93.02	93.16	92.61	89.01	0.00
% PF	90.9	91.13	91.22	90.36	86.76	73	11.35
AMPS	41.96	38.35	33.09	25.02	17.47	10.8	6.7

<b>TORQ(FL)#FT</b>	44.44	<b>TORQ(LR)%FL</b>	229.54	<b>TORQ(BD)%FL</b>	255.1
<b>AMPS(LR)</b>	202.95	<b>PF AT START</b>	0.34		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 235 Lb-Ft Sq (9.89 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 76 seconds cold, 51 seconds hot. Rotor inertia is 3.14 Lb-Ft Sq (0.13 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.874	<b>Short Circuit D-C:</b>	0.019
<b>Short Circuit A-C:</b>	0.022	<b>X/R Ratio:</b>	7.122
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

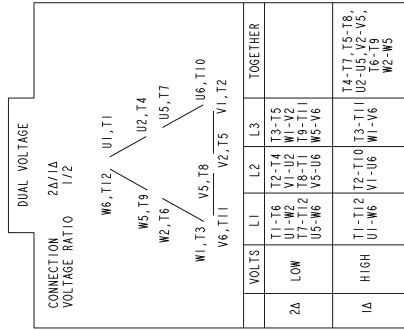
**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG210**



NAME:501452353 OBJECT:GEM2034E-FIG210 DATE:25-Feb-08 14:03:35

