

# Product Information Packet

November 9, 2016

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

<b>Model Number:</b>	<b>5KS143STE205A</b>
<b>Catalog Number:</b>	<b>M7723</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG203
<b>Outline Drawing:</b>	358B6269AA

<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		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS143STE205A</b>	<b>Estimated Weight:</b>	66 Lbs
<b>Outline Drawing:</b>	358B6269AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG203	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	14AD1011A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	143T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	85.5 %
<b>Output Power:</b>	1HP 0.7KW	<b>Guaranteed Efficiency:</b>	82.5
<b>RPM:</b>	1750	<b>3/4 Load Efficiency:</b>	88.0
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	N
<b>Hertz:</b>	60	<b>Max KVAR:</b>	0.5
<b>Amps - FL:</b>	2.8/1.4	<b>Power Factor:</b>	76
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6205ZZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6205ZZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

USABLE AT 200V @ 1 HP, 3.1 AMPS @ 1.0 SF

LRA: 22.4/11.2

50HZ DATA: .75 HP,200/400V, 2.8/1.4 AMPS @ 1.15 SF

50HZ DATA: 1 HP, 200/400V, 3.2/1.6 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: 14AD1011A**

**Marks:**

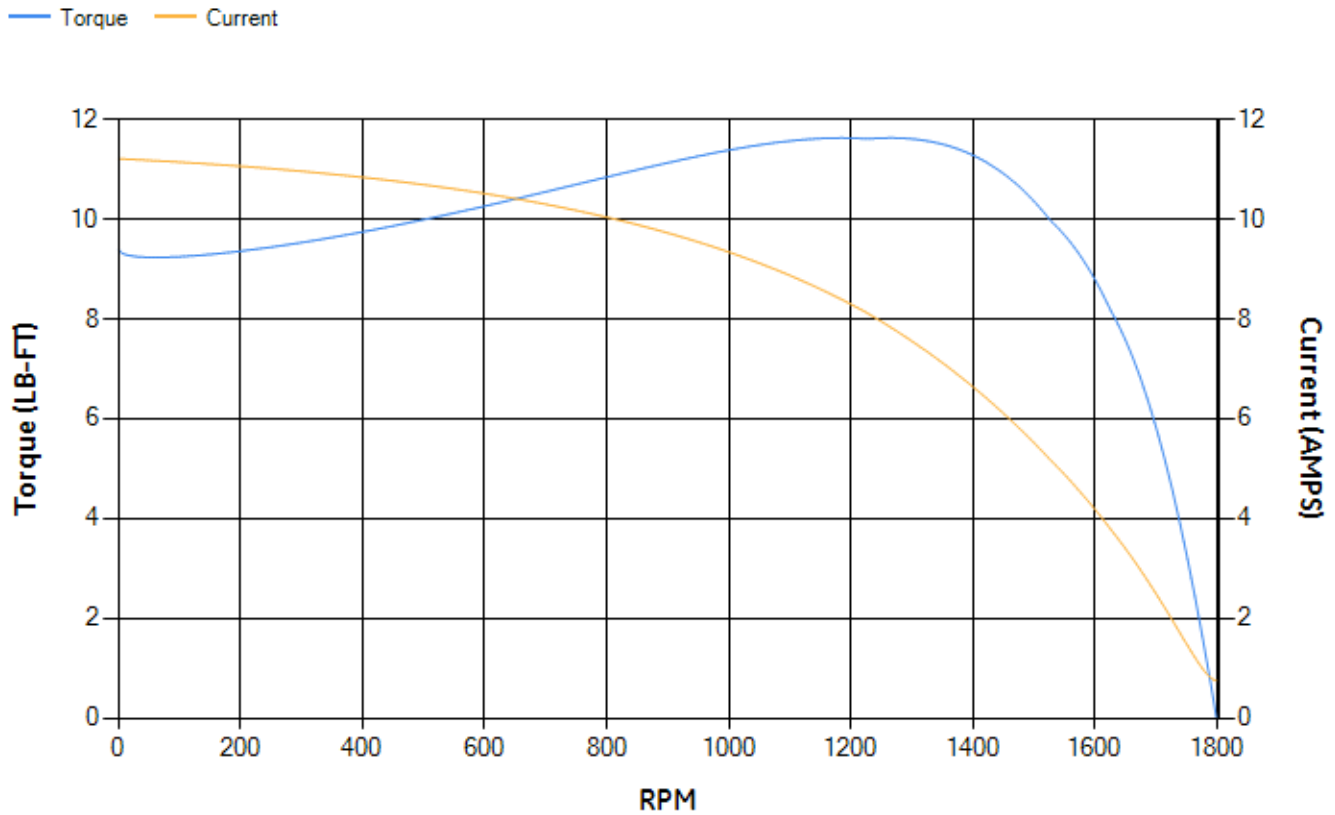
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.6	87.91	88.39	87.99	86.1	78.69	0.00
% PF	80.45	79.04	76.26	69.03	56.64	36.38	7.66
AMPS	1.66	1.55	1.39	1.16	0.96	0.82	0.75

<b>TORQ(FL)#FT</b>	3	<b>TORQ(LR)%FL</b>	313.29	<b>TORQ(BD)%FL</b>	382.02
<b>AMPS(LR)</b>	11.21	<b>PF AT START</b>	0.53		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 74 Lb-Ft Sq (3.12 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 47 seconds. Safe stall time at 100% voltage is 112 seconds cold, 94 seconds hot. Rotor inertia is 0.1 Lb-Ft Sq (0 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.157	<b>Short Circuit D-C:</b>	0.008
<b>Short Circuit A-C:</b>	0.008	<b>X/R Ratio:</b>	2.85
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

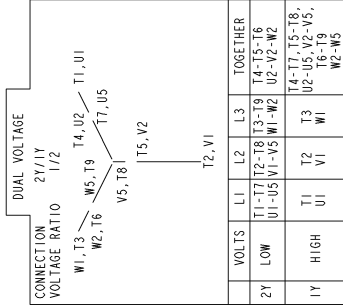
**Speed Torque Current Curve (First Connection, First Speed)**





Marks:

**Connection Diagram**  
**GEM2034E-FIG203**



NAME: 500903578 OBJECT: GEM2034E-FIG203 DATE: 03-Nov-06 13:53:10