

# Product Information Packet

November 7, 2016

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

<b>Model Number:</b>	<b>5KS143ATE205F2RG3</b>
<b>Catalog Number:</b>	<b>E7051</b>
<b>Instruction Manual:</b>	GEI-M1023
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	358B6213AC

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>5KS143ATE205F2RG3</b>	<b>Estimated Weight:</b>	48 Lbs
<b>Outline Drawing:</b>	358B6213AC	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG3	<b>Enclosure:</b>	DP
<b>Instruction Book:</b>	GEI-M1023	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	14AD1003A	<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>	1735	<b>3/4 Load Efficiency:</b>	87.9
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	N
<b>Hertz:</b>	60	<b>Max KVAR:</b>	.5
<b>Amps - FL:</b>	2.8/1.4	<b>Power Factor:</b>	77.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6205ZZ
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6205ZZ

Enclosure is Dripproof

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

4 POLE DP  
 LRA: 20.4/10.2  
 IGBT COMPATIBLE, 20:1 VAR TORQ  
 NO. OF MOTOR LEADS: 9  
 CONDUIT BOX VOLUME (IN<sup>3</sup>): 30.2  
 CONDUIT BOX MTL: STAMPED STEEL  
 GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE  
 USABLE AT 200V @ 1 HP, 3.1 AMPS @ 1.0 SF  
 50 HZ DATA: 3/4 HP, 200/400V, 2.6 / 1.3 AMPS @1.0SF, 1450 RPM  
 F2 ASM  
 STAMP STOCK 3 E792 ON NAMEPLATE  
 MADE FROM 5KS143ATE205  
 DP MOD JP 12/6/04  
 MADE FROM MODEL 5KS143ATE205F2  
 ADD AEGIS GROUND RING  
 MOD AMSTUTZ 15-NOV-2011

**Performance Characteristics**

1st Winding 1st Connection

**Design: 14AD1003A**

**Marks:**

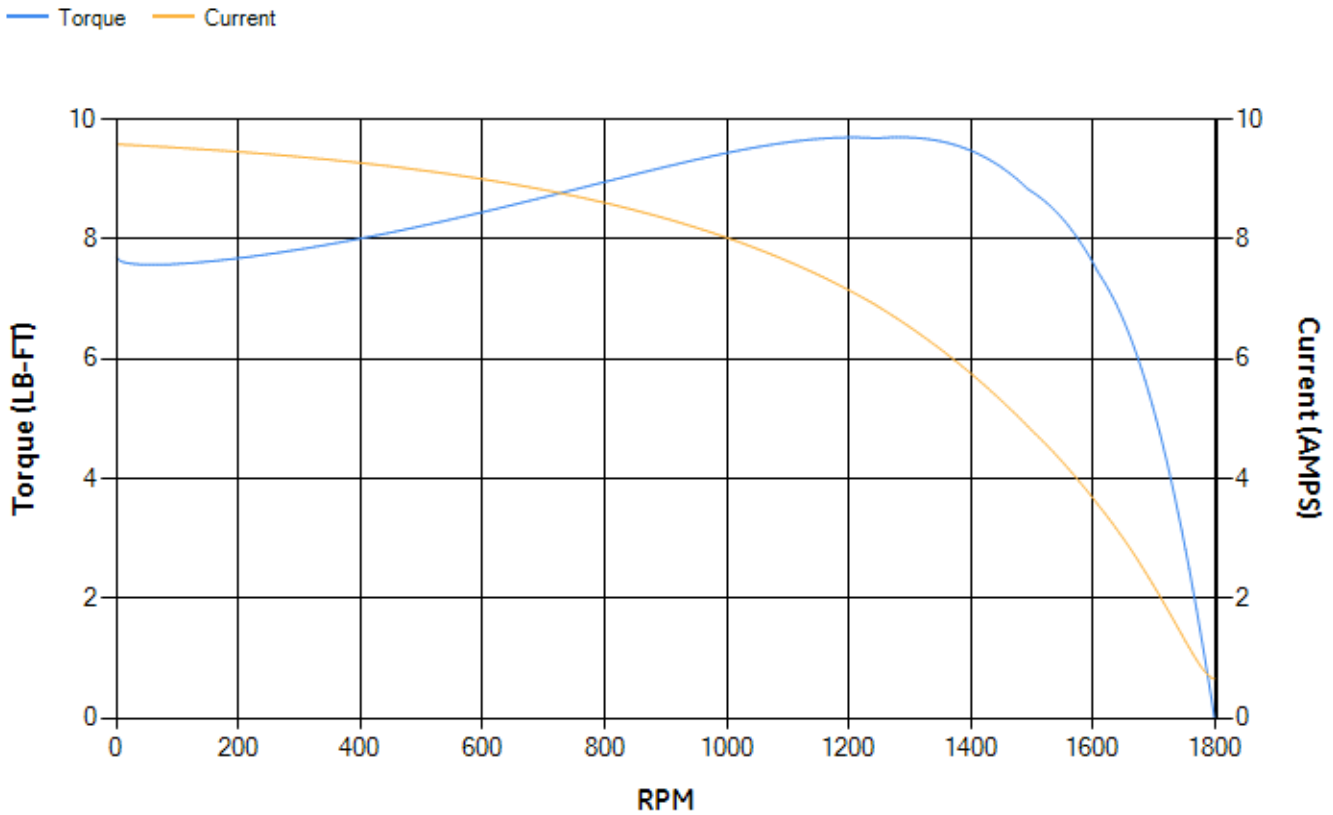
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.48	87	87.81	87.95	86.7	80.31	0.00
% PF	82.44	81.36	79.1	72.78	61.04	39.99	7.73
AMPS	1.64	1.52	1.35	1.1	0.88	0.73	0.65

<b>TORQ(FL)#FT</b>	3.01	<b>TORQ(LR)%FL</b>	255.49	<b>TORQ(BD)%FL</b>	317.27
<b>AMPS(LR)</b>	9.58	<b>PF AT START</b>	0.53		

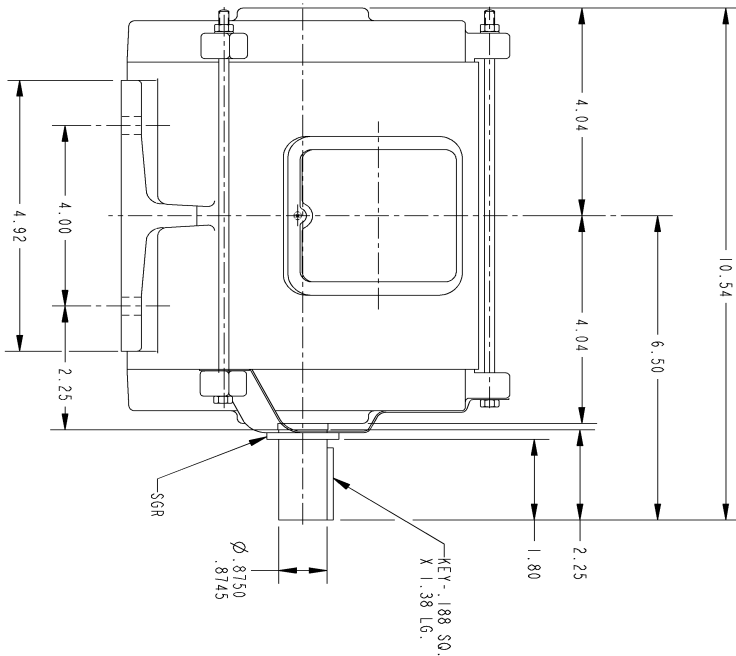
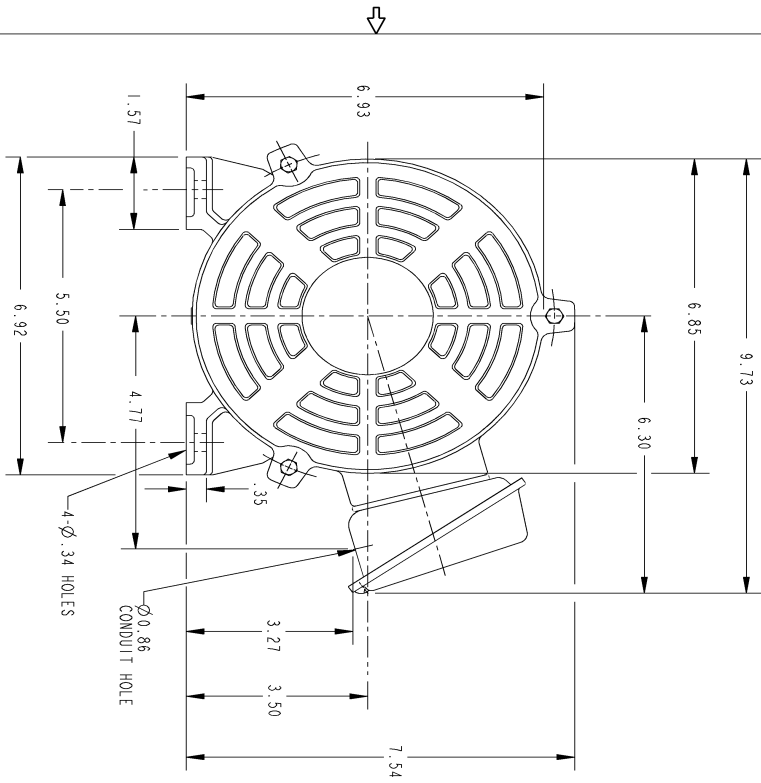
This motor is capable of two cold or one hot start with a maximum connected load inertia of 64 Lb-Ft Sq (2.69 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 49 seconds. Safe stall time at 100% voltage is 117 seconds cold, 93 seconds hot. Rotor inertia is 0.1 Lb-Ft Sq (0 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.156	<b>Short Circuit D-C:</b>	0.007
<b>Short Circuit A-C:</b>	0.008	<b>X/R Ratio:</b>	2.723
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

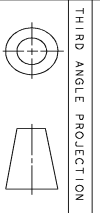
**Speed Torque Current Curve (First Connection, First Speed)**



Marks:



- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASM AS SHOWN.
  3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE.



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REV.	DESCRIPTION	DATE	APPROVED

SIZE: DRAWING NO.	B	REV	0	SHEET	1
358B6213AC		REVISIONS			

SIGNATURES	DATE	<p><b>GENERAL ELECTRIC COMPANY</b></p>
MODEL	07/14/11	
DETAIL	SHANKAR	
CHECKED	VENKAT J 07/14/11	
ENGR	VENKAT J 07/14/11	
ISSUED	SHANKAR 07/14/11	TITLE <b>OUTLINE</b> <b>143T - OPEN DRIP PROOF WITH SGR</b>
SCALE: DRAWING SCALE	B	SIZE: DRAWING <b>358B6213AC</b>
SHEET 1 of 1	REV	0

DISTRIBUTION:

Marks:

**Connection Diagram**  
**GEM2034E-FIG3**

