

Product Information Packet

November 9, 2016

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

Model Number:	5KS143STE205RG3
Catalog Number:	M7551
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG203
Outline Drawing:	358B6269AC

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS143STE205RG3	Estimated Weight:	66 Lbs
Outline Drawing:	358B6269AC	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG203	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	14AD1011A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	143T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	85.5 %
Output Power:	1HP 0.7KW	Guaranteed Efficiency:	82.5
RPM:	1750	3/4 Load Efficiency:	88.0
Voltage:	230/460	KVA Code:	N
Hertz:	60	Max KVAR:	0.5
Amps - FL:	2.8/1.4	Power Factor:	76
Service Factor:	1.15	Bearing - DE:	6205ZZC3
Alt Service Factor:	--	Bearing - ODE:	6205ZZC3

Enclosure is Totally Enclosed Fan-Cooled

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 VOLUME (CU IN): 47.1

CONDUIT BOX MATERIAL: CAST IRON

INVERTER DUTY PER NEMA MG1 PART 31

FOR VARIABLE TORQUE LOADS

BAM 1/12



Performance Characteristics

1st Winding 1st Connection

Design: 14AD1011A

Marks:

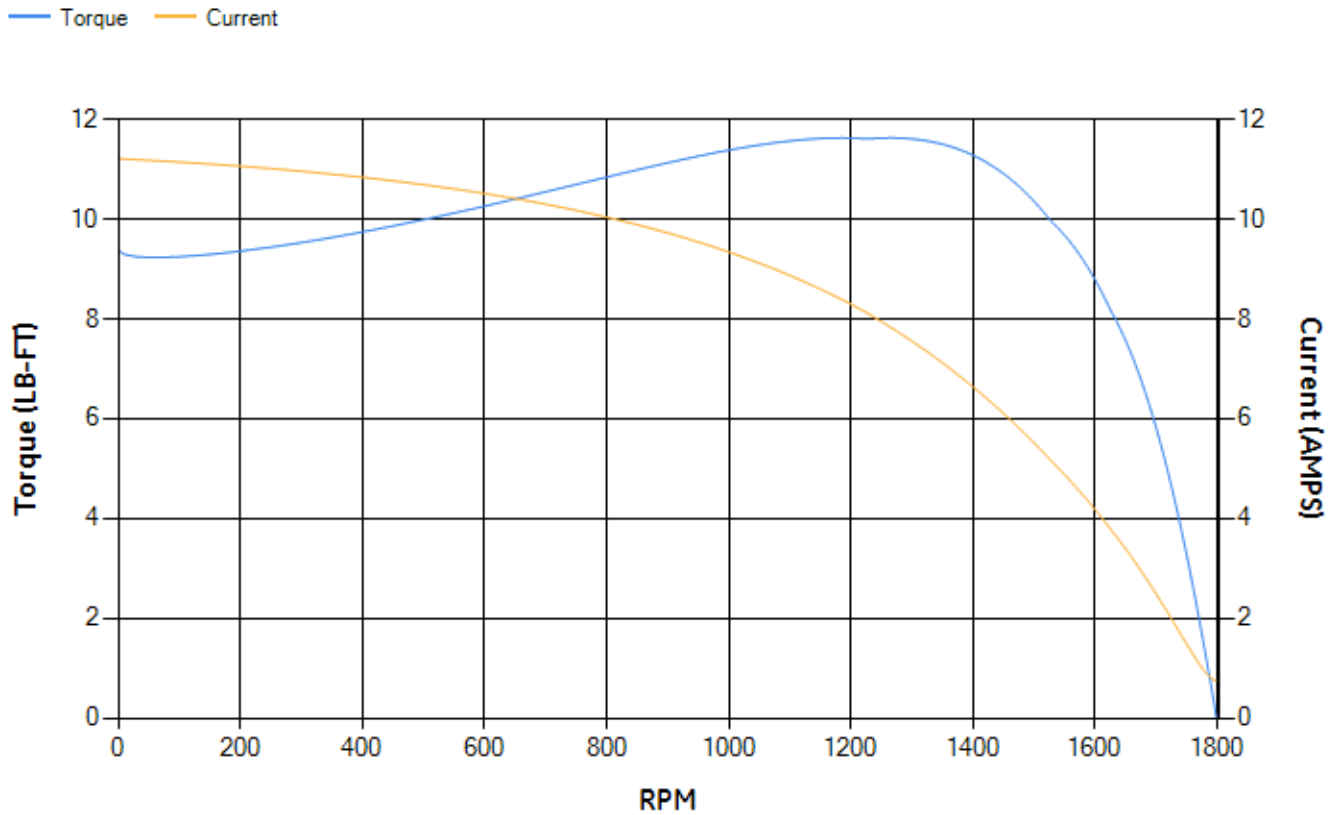
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.6	87.91	88.39	87.99	86.1	78.69	0.00
% PF	80.45	79.04	76.26	69.03	56.64	36.38	7.66
AMPS	1.66	1.55	1.39	1.16	0.96	0.82	0.75

TORQ(FL)#FT	3	TORQ(LR)%FL	313.29	TORQ(BD)%FL	382.02
AMPS(LR)	11.21	PF AT START	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).

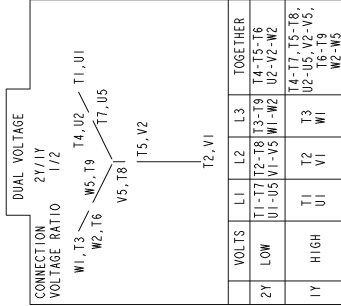
Open Circuit A-C:	0.157	Short Circuit D-C:	0.008
Short Circuit A-C:	0.008	X/R Ratio:	2.85
Stator Slots:	36	Rotor Slots:	28

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