

Product Information Packet

November 9, 2016

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

Model Number:	5KS145STE205F2RG3
Catalog Number:	M7555
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:	5KS145STE205F2RG3	Estimated Weight:	60 Lbs
Outline Drawing:	358B6269AC	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG203	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	14AD1013A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	86.5 %
Output Power:	2HP 1.5KW	Guaranteed Efficiency:	84.0
RPM:	1730	3/4 Load Efficiency:	88.9
Voltage:	230/460	KVA Code:	L
Hertz:	60	Max KVAR:	0.9
Amps - FL:	5.4/2.7	Power Factor:	79.5
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 @ 2 HP, 5.9 AMPS @ 1.0 SF

LRA: 40.2/20.1

50HZ DATA: 1.5 HP, 200/400V, 5.4/2.7 AMPS @ 1.15 SF

50HZ DATA: 2 HP, 200/400V, 6.2/3.1 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: 14AD1013A

Marks:

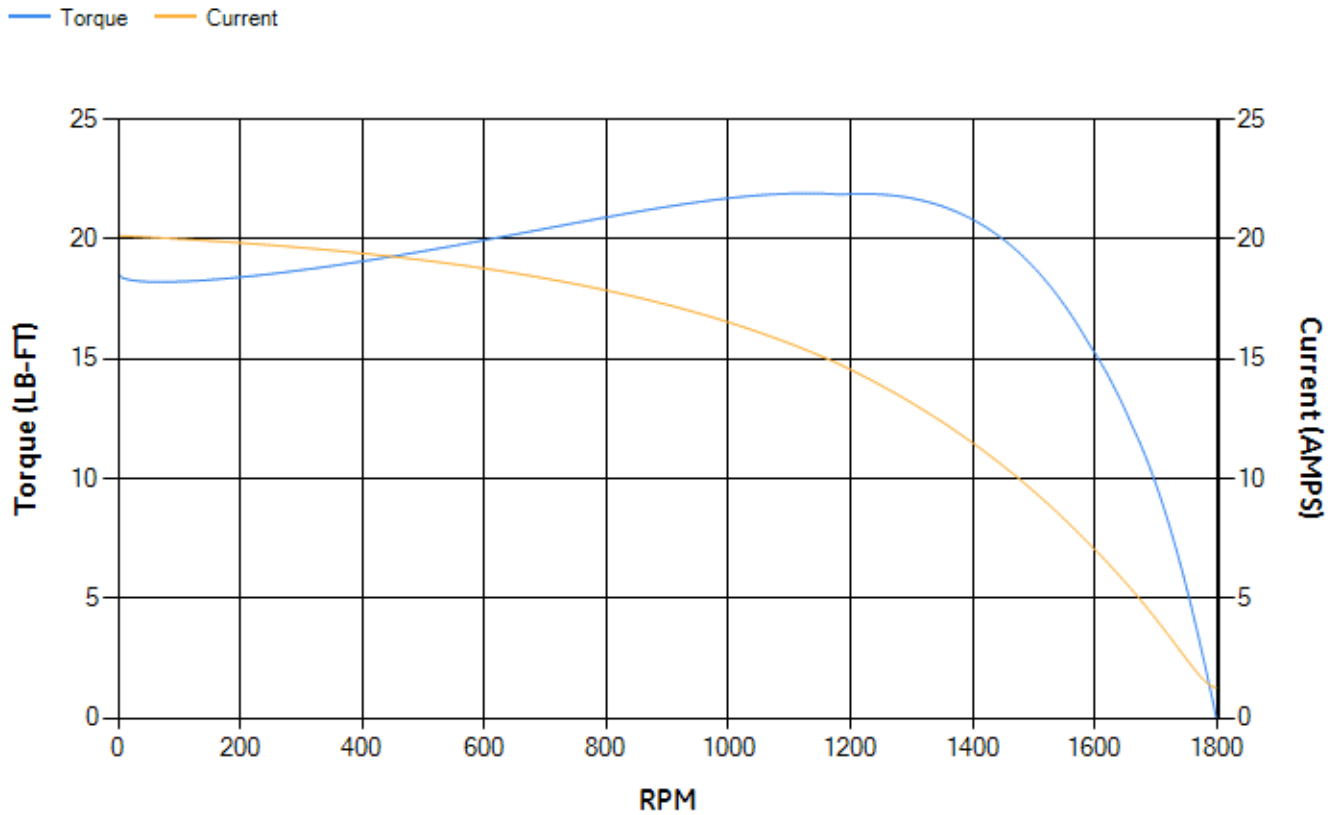
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.71	87.36	88.36	88.86	88.17	82.94	0.00
% PF	82.65	81.67	79.54	73.4	61.65	40.05	6.49
AMPS	3.26	3.02	2.66	2.15	1.72	1.41	1.26

TORQ(FL)#FT	6.06	TORQ(LR)%FL	306.19	TORQ(BD)%FL	355.04
AMPS(LR)	20.14	PF AT START	0.55		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 90 Lb-Ft Sq (3.79 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 30 seconds. Safe stall time at 100% voltage is 71 seconds cold, 49 seconds hot. Rotor inertia is 0.13 Lb-Ft Sq (0.01 Kg-meter Sq).

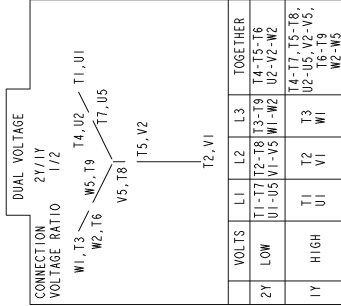
Open Circuit A-C:	0.139	Short Circuit D-C:	0.007
Short Circuit A-C:	0.007	X/R Ratio:	2.676
Stator Slots:	36	Rotor Slots:	28

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