

Product Information Packet

November 9, 2016

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

Model Number:	5KS324STE205RG3
Catalog Number:	M7571
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG210
Outline Drawing:	358B6274AE

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:	5KS324STE205RG3	Estimated Weight:	826 Lbs
Outline Drawing:	358B6274AE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG210	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	32AD1009A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	324T	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	94.1 %
Output Power:	40HP 29.6KW	Guaranteed Efficiency:	93.0
RPM:	1780	3/4 Load Efficiency:	94.2
Voltage:	230/460	KVA Code:	H
Hertz:	60	Max KVAR:	10.4
Amps - FL:	93/46.5	Power Factor:	85.5
Service Factor:	1.15	Bearing - DE:	6312
Alt Service Factor:	--	Bearing - ODE:	6212

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

LRA: 687.6/343.8

50HZ DATA: 30 HP,200/400V,93/46.5 AMPS @ 1.15 SF

50HZ DATA: 40 HP,200/400V, 107/53.5 AMPS @ 1.00 SF

GREASE TYPE: EXXON POLYREX EM

Additional Information:

CONDUIT BOX VOLUME (CU IN): 272.9

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: 32AD1009A

Marks:

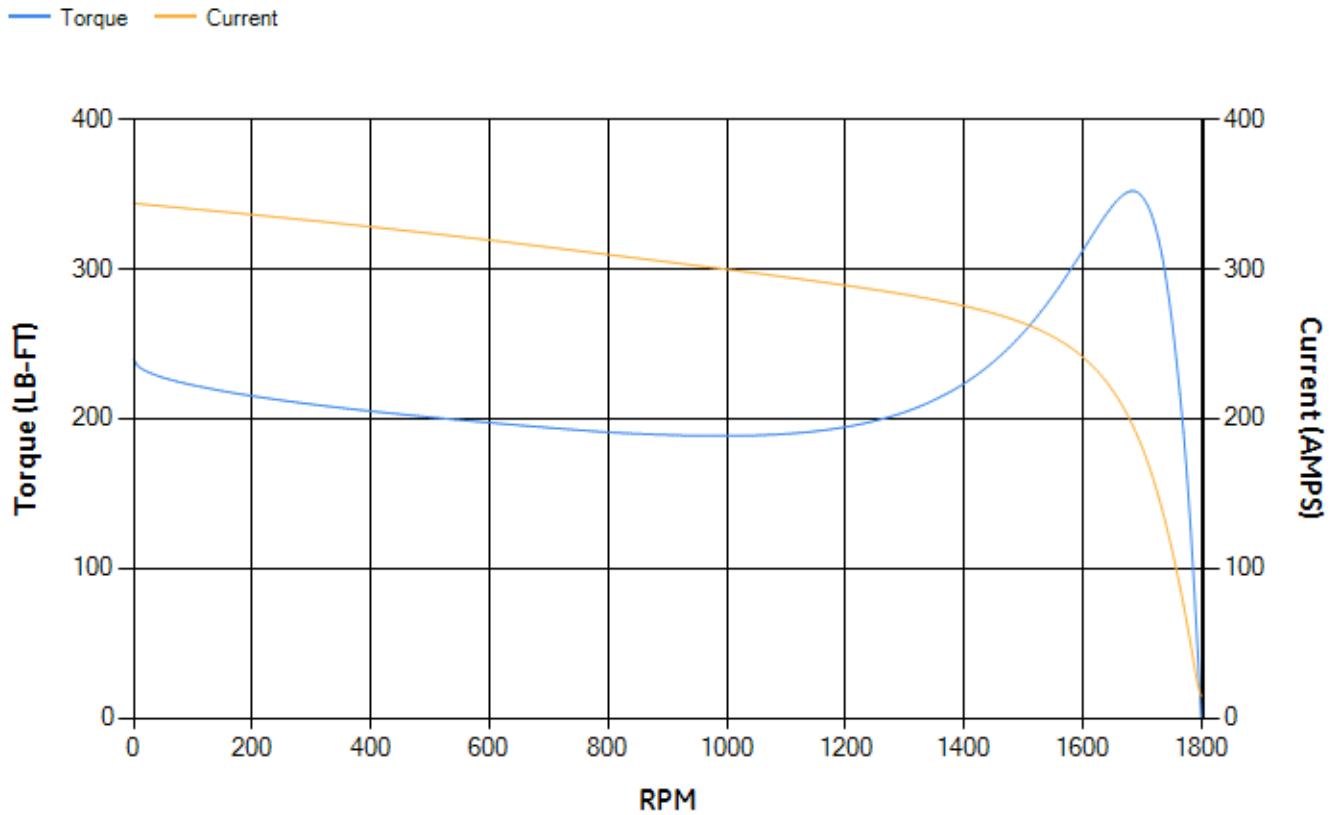
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.57	93.82	94.3	94.23	93.56	90.1	0.00
% PF	86.14	86.11	85.63	83.07	75.97	56.14	6.34
AMPS	58.06	53.29	46.36	35.87	26.34	18.5	14.39

TORQ(FL)#FT	118.08	TORQ(LR)%FL	203.3	TORQ(BD)%FL	297.44
AMPS(LR)	343.79	PF AT START	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1236 Lb-Ft Sq (52.04 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 40 seconds. Safe stall time at 100% voltage is 71 seconds cold, 48 seconds hot. Rotor inertia is 8.37 Lb-Ft Sq (0.35 Kg-meter Sq).

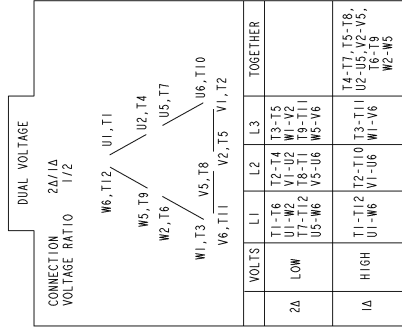
Open Circuit A-C:	0.711	Short Circuit D-C:	0.023
Short Circuit A-C:	0.028	X/R Ratio:	8.572
Stator Slots:	48	Rotor Slots:	40

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