

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS324STE205F2RG3</b>
<b>Catalog Number:</b>	<b>M7572</b>
<b>Instruction Manual:</b>	GEI-M1031
<b>Connection Diagram:</b>	GEM2034E-FIG210
<b>Outline Drawing:</b>	358B6274AE

## 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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imagination at work

**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS324STE205F2RG3</b>	<b>Estimated Weight:</b>	632 Lbs
<b>Outline Drawing:</b>	358B6274AE	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG210	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1031	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	32AD1009A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	324T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	A
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	94.1 %
<b>Output Power:</b>	40HP 29.6KW	<b>Guaranteed Efficiency:</b>	93.0
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	94.2
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	10.4
<b>Amps - FL:</b>	93/46.5	<b>Power Factor:</b>	85.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6312
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6212

Enclosure is Totally Enclosed Fan-Cooled

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**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  
AMPS(LR) 343.79

TORQ(LR)%FL 203.3  
PF AT START 0.32

TORQ(BD)%FL 297.44

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

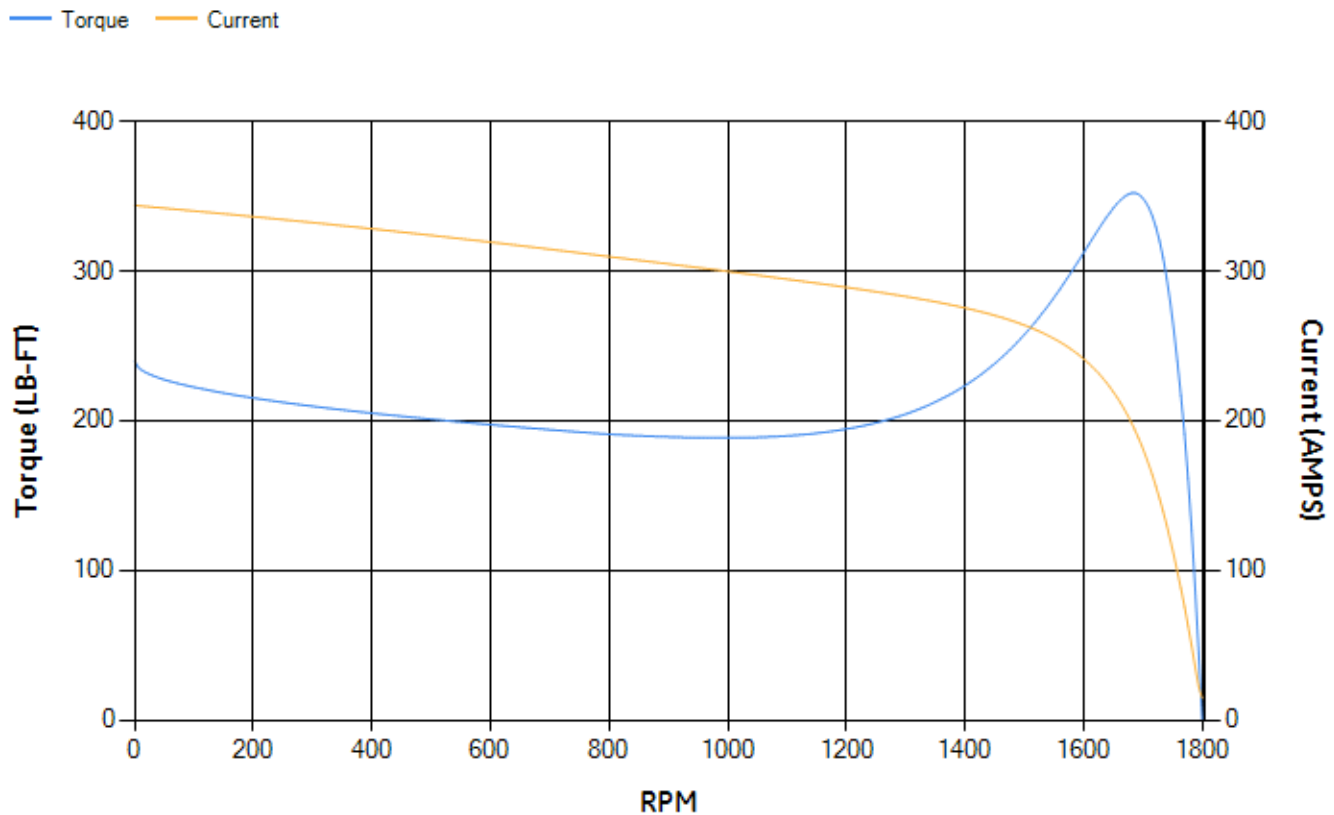
Short Circuit A-C: 0.028

X/R Ratio: 8.572

Stator Slots: 48

Rotor Slots: 40

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





Marks:

Connection Diagram  
GEM2034E-FIG210

