

Product Information Packet

November 8, 2016

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

Model Number:	5KGS447SAA320D1
Catalog Number:	M8988
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG8
Outline Drawing:	239C6800AA

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:	5KGS447SAA320D1	Estimated Weight:	3200 Lbs
Outline Drawing:	239C6800AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG8	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49BD3101A	Ambient Max(°C):	40
Type:	KGS	Alt Ambient Max(°C):	65
Frame:	447T	Insulation Class:	H
Phases:	3	NEMA Design:	C
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.4
RPM:	1190	3/4 Load Efficiency:	95.7
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	56.4
Amps - FL:	181.0	Power Factor:	81.0
Service Factor:	1.25	Bearing - DE:	NU 318
Alt Service Factor:	1.00	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

ROLLER BEARING - FOR BELTED LOAD ONLY
 SF AMPS 221.2
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KGS447SAA320D1 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 200C AT 1.25SF ON SINE-WAVE PWR
 OR 200 C VT OR 215 C CT OR --- C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 3-60 HZ, CHP --- HZ.

Additional Information:

6P - T EXTN - SPLIT LEAD
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD3101A

Marks:

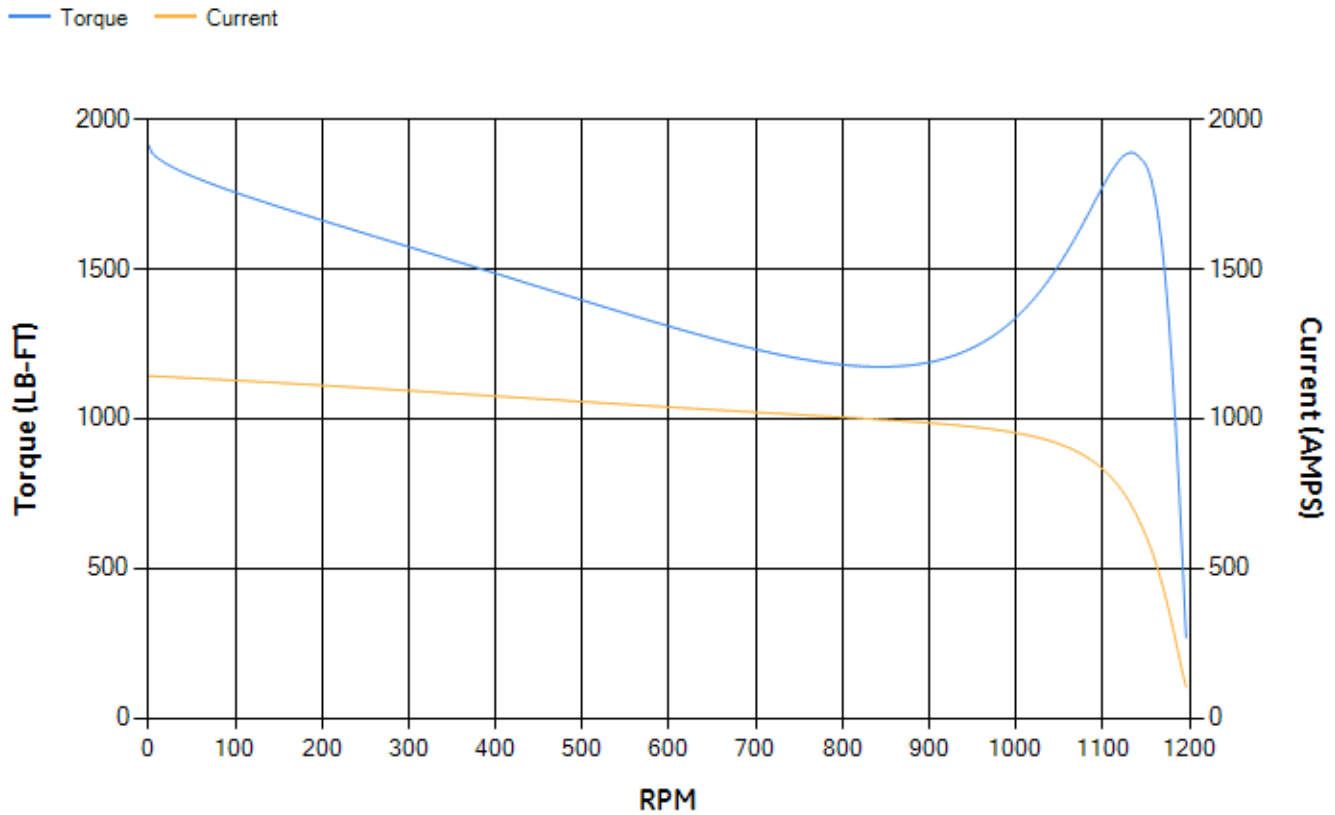
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.26	95.43	95.82	95.73	95.26	92.73	0.00
% PF	83.28	82.52	80.8	75.57	64.66	42.12	3.06
AMPS	221.21	205.03	181.32	145.56	113.95	89.85	78.65

TORQ(FL)#FT	661.93	TORQ(LR)%FL	288.98	TORQ(BD)%FL	284.64
AMPS(LR)	1142.85	PF AT START	0.44		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 14307 Lb-Ft Sq (602.32 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 45 seconds. Safe stall time at 100% voltage is 80 seconds cold, 55 seconds hot. Rotor inertia is 214.07 Lb-Ft Sq (9.01 Kg-meter Sq).

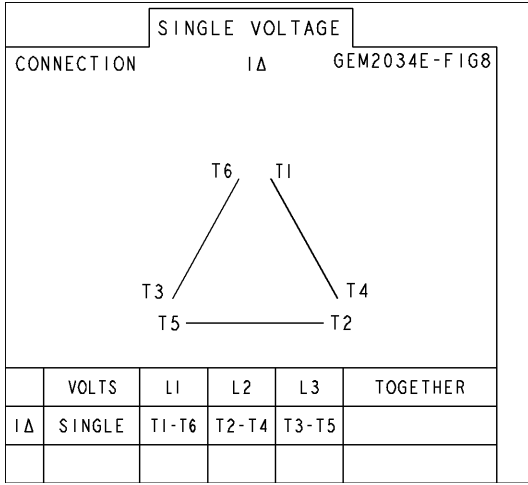
Open Circuit A-C:	0.664	Short Circuit D-C:	0.033
Short Circuit A-C:	0.034	X/R Ratio:	12.475
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG8



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LL1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	