

Product Information Packet

November 8, 2016

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

Model Number:	5KS444SAA114D8
Catalog Number:	M9538
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600AB

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:	5KS444SAA114D8	Estimated Weight:	1830 Lbs
Outline Drawing:	239C6600AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	44BD0130B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	444TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.0 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	94.5
RPM:	3580	3/4 Load Efficiency:	94.7
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	29.4
Amps - FL:	111.0	Power Factor:	88.5
Service Factor:	1.25	Bearing - DE:	6314ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 138.4
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS444SAA114D8 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 260C AT 1.25SF ON SINE-WAVE PWR
 OR 200C VT OR 200C 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:

2P - TS EXTN
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 44BD0130B

Marks:

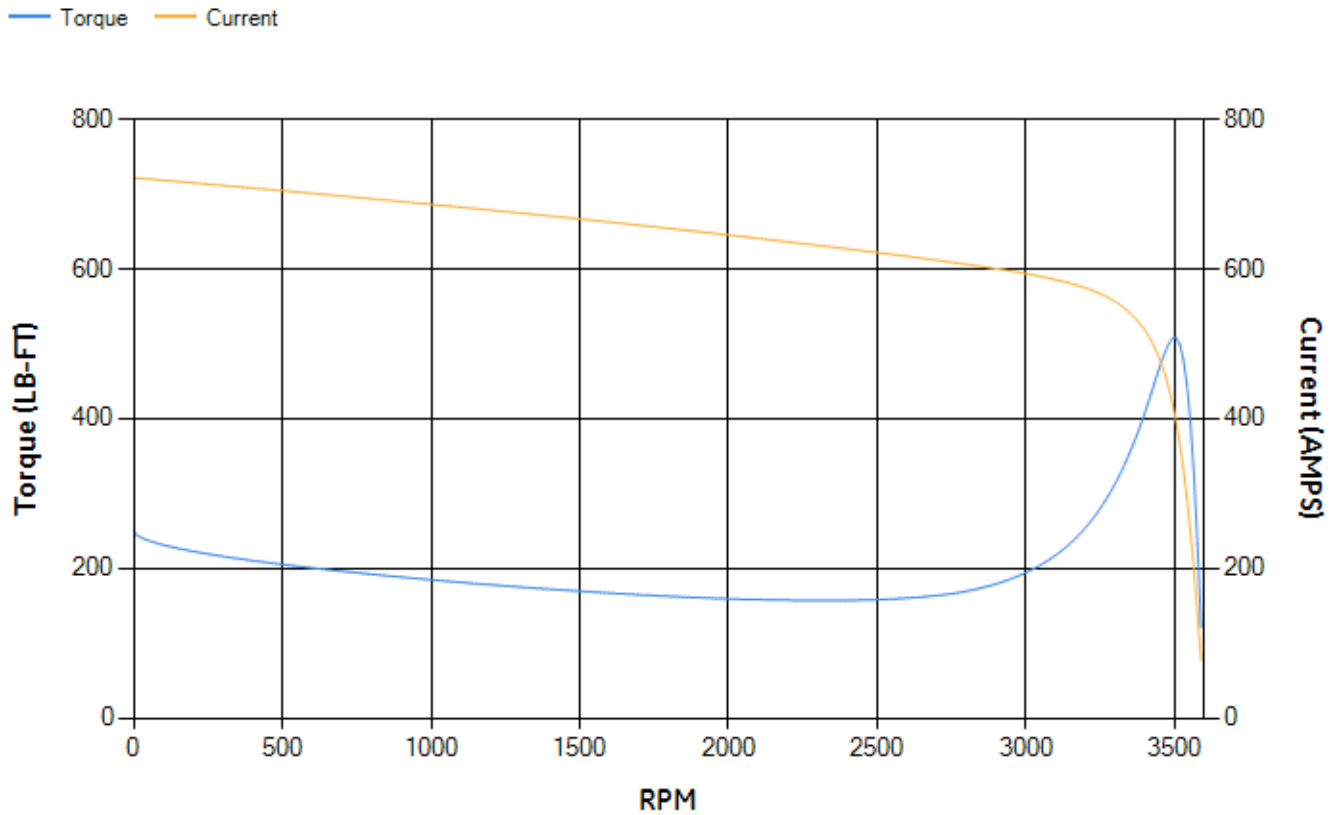
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.71	94.82	95.1	94.73	93.76	89.92	0.00
% PF	89.27	89.15	88.63	86.24	79.68	60.35	7.28
AMPS	138.37	127.33	111.05	85.92	62.63	43.12	32.85

TORQ(FL)#FT	183.33	TORQ(LR)%FL	136.71	TORQ(BD)%FL	277.31
AMPS(LR)	721.97	PF AT START	0.2		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 422 Lb-Ft Sq (17.77 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 37 seconds. Safe stall time at 100% voltage is 79 seconds cold, 44 seconds hot. Rotor inertia is 22.71 Lb-Ft Sq (0.96 Kg-meter Sq).

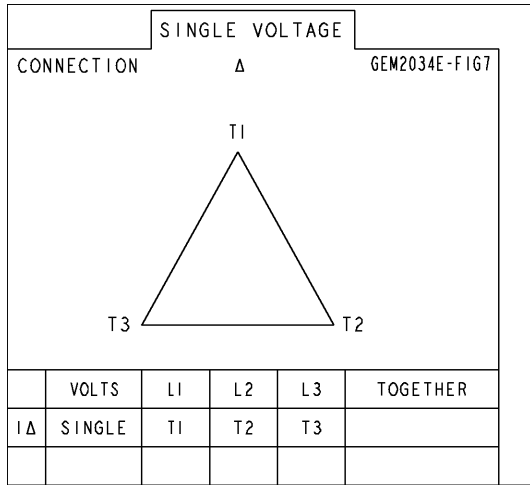
Open Circuit A-C:	1.558	Short Circuit D-C:	0.037
Short Circuit A-C:	0.075	X/R Ratio:	13.786
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4354AA1	115E4354LL1
Bearing	235A2616AA01	235A2616AA01
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	