

Product Information Packet

November 8, 2016

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

Model Number:	5KS449SAA308B
Catalog Number:	M9139
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:	5KS449SAA308B	Estimated Weight:	3060 Lbs
Outline Drawing:	239C6800AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG8	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49BD3013A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	65
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4
RPM:	1190	3/4 Load Efficiency:	96.0
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	50.2
Amps - FL:	227.0	Power Factor:	86.0
Service Factor:	1.25	Bearing - DE:	6318ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

SF AMPS 284.8
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449SAA308B 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 280C AT 1.25SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 20-60 HZ, CHP 60-90 HZ.

Additional Information:

6P - T EXTN - SPLIT LEAD
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD3013A

Marks:

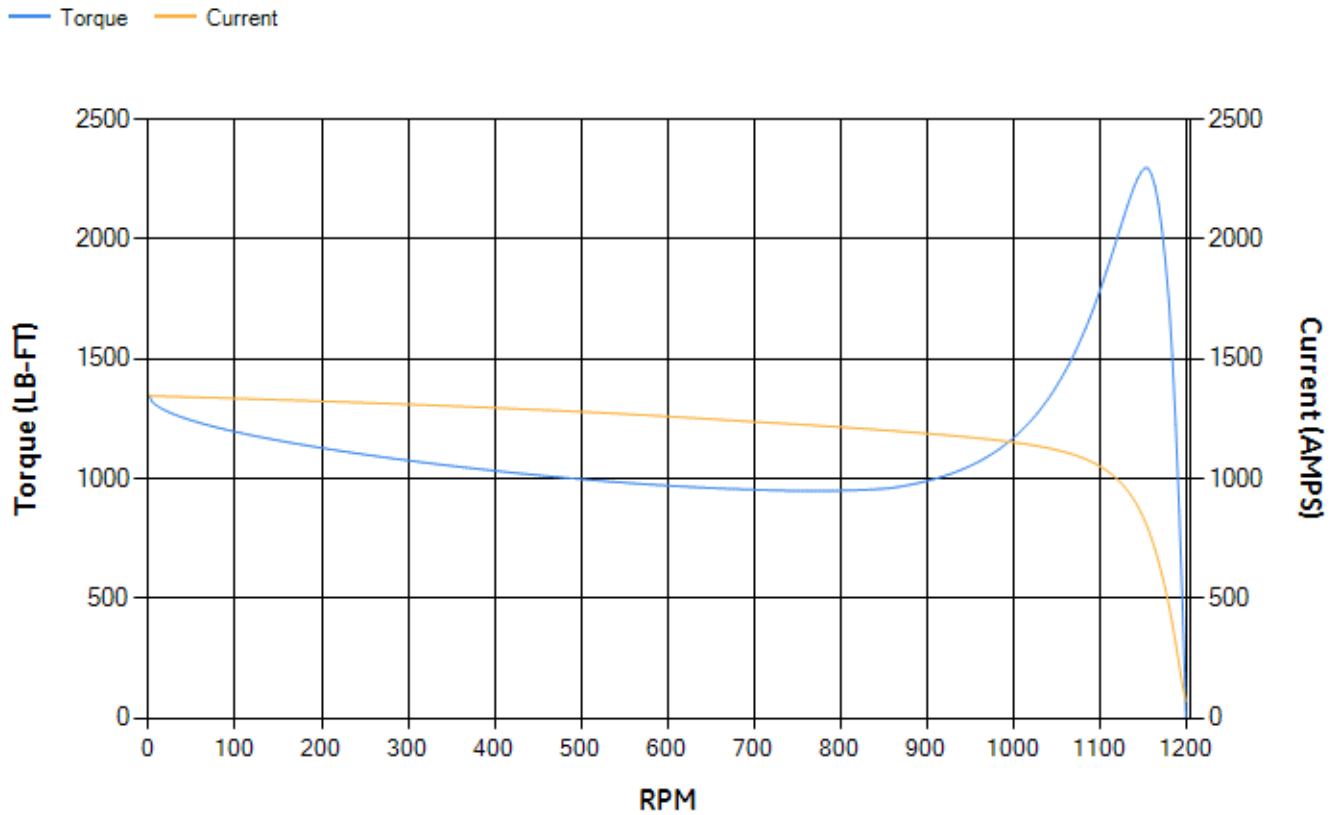
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.01	95.28	95.82	95.99	95.9	94.21	0.00
% PF	86.48	86.45	85.96	83.41	76.19	55.6	3.41
AMPS	284.77	261.35	227.25	175.35	128.08	89.34	70.03

TORQ(FL)#FT	881.68	TORQ(LR)%FL	153.09	TORQ(BD)%FL	260.27
AMPS(LR)	1345.09	PF AT START	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 13993 Lb-Ft Sq (589.11 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 64 seconds. Safe stall time at 100% voltage is 139 seconds cold, 77 seconds hot. Rotor inertia is 194.39 Lb-Ft Sq (8.18 Kg-meter Sq).

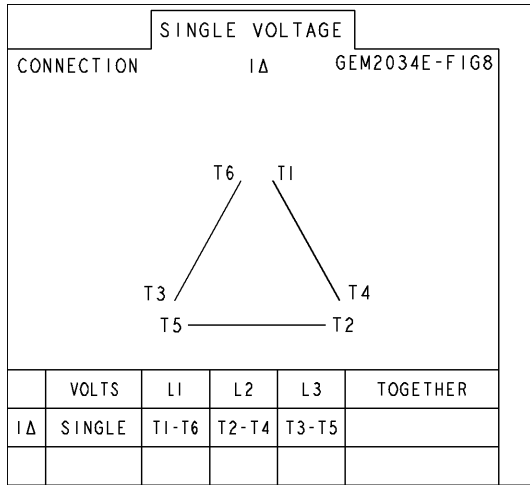
Open Circuit A-C:	1.133	Short Circuit D-C:	0.032
Short Circuit A-C:	0.054	X/R Ratio:	12.195
Stator Slots:	72	Rotor Slots:	58

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	115E4355LM1
Bearing	235A2514AG01	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	