

Product Information Packet

November 9, 2016

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

Model Number:	5KS449SAA201D8
Catalog Number:	M9988
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG25
Outline Drawing:	239C6800FR

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:	5KS449SAA201D8	Estimated Weight:	3100 Lbs
Outline Drawing:	239C6800FR	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG25	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	49BD1241A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	60
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.5 %
Output Power:	250HP 185KW	Guaranteed Efficiency:	96.2
RPM:	1790	3/4 Load Efficiency:	96.9
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	54.4
Amps - FL:	274.0	Power Factor:	88.5
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449SAA201D8 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 1.15SF ON SINE-WAVE PWR
 OR 200 C VT OR 230 C CT OR 200 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 30-60 HZ, CHP 60-75 HZ.

Additional Information:

4P - T EXTN - SPLIT LEAD
 1260 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD1241A

Marks:

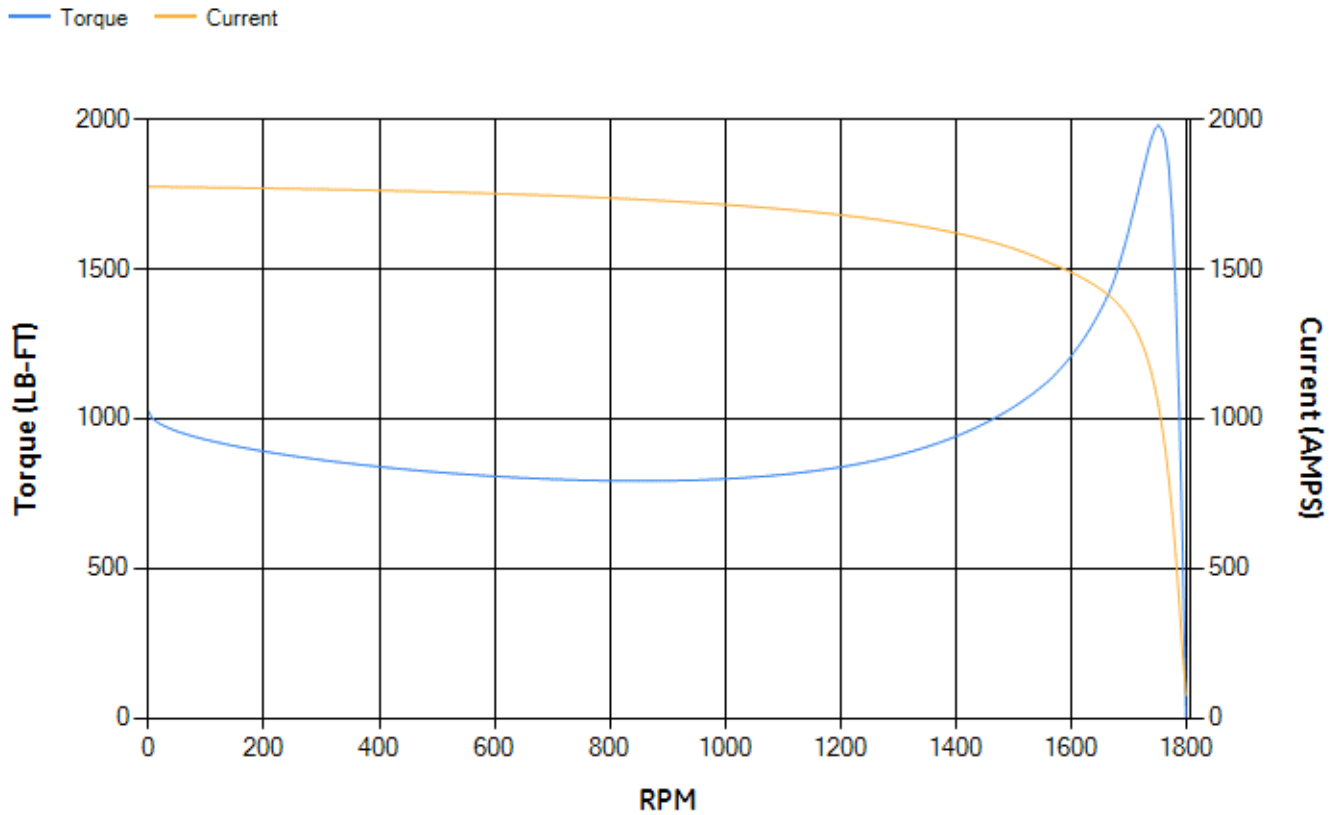
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.2	96.38	96.82	96.86	96.74	95.32	0.00
% PF	89.24	89.17	88.73	86.55	80.24	60.64	3.15
AMPS	340.7	313.08	272.38	209.34	150.71	101.2	75.92

TORQ(FL)#FT	732.88	TORQ(LR)%FL	139.77	TORQ(BD)%FL	269.93
AMPS(LR)	1774.87	PF AT START	0.23		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 8518 Lb-Ft Sq (358.61 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 73 seconds. Safe stall time at 100% voltage is 172 seconds cold, 87 seconds hot. Rotor inertia is 138.63 Lb-Ft Sq (5.84 Kg-meter Sq).

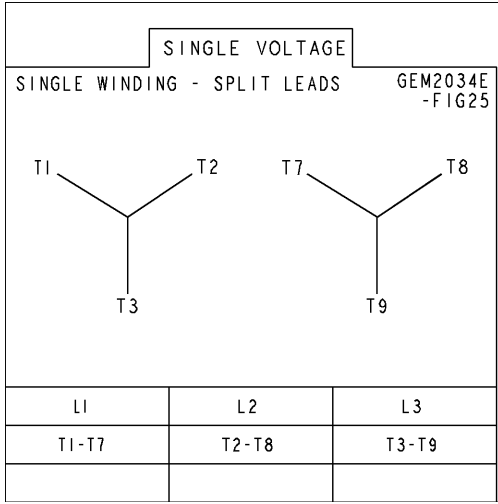
Open Circuit A-C:	1.867	Short Circuit D-C:	0.038
Short Circuit A-C:	0.072	X/R Ratio:	14.171
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG25



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	159C7100AA2
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	