

Product Information Packet

November 9, 2016

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

Model Number:	5KS449LAA123C
Catalog Number:	M7658
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239CC801AD

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:	5KS449LAA123C	Estimated Weight:	2520 Lbs
Outline Drawing:	239CC801AD	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	49BD0113A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449TSC	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	2	Nominal Efficiency:	95.8 %
Output Power:	250HP 185KW	Guaranteed Efficiency:	95.0
RPM:	3585	3/4 Load Efficiency:	96.1
Voltage:	460	KVA Code:	J
Hertz:	60	Max KVAR:	63.8
Amps - FL:	274.0	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ

Additional Information:

2P - TS EXTN - SPLIT LEAD
 C FACE ON DE
 1260 CU IN - 2(4.00" NPT)
 C/B GRD PLATE
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING
 VIBRATION LIMIT 0.15 INCH PER SEC

Performance Characteristics

1st Winding 1st Connection

Design: 49BD0113A

Marks:

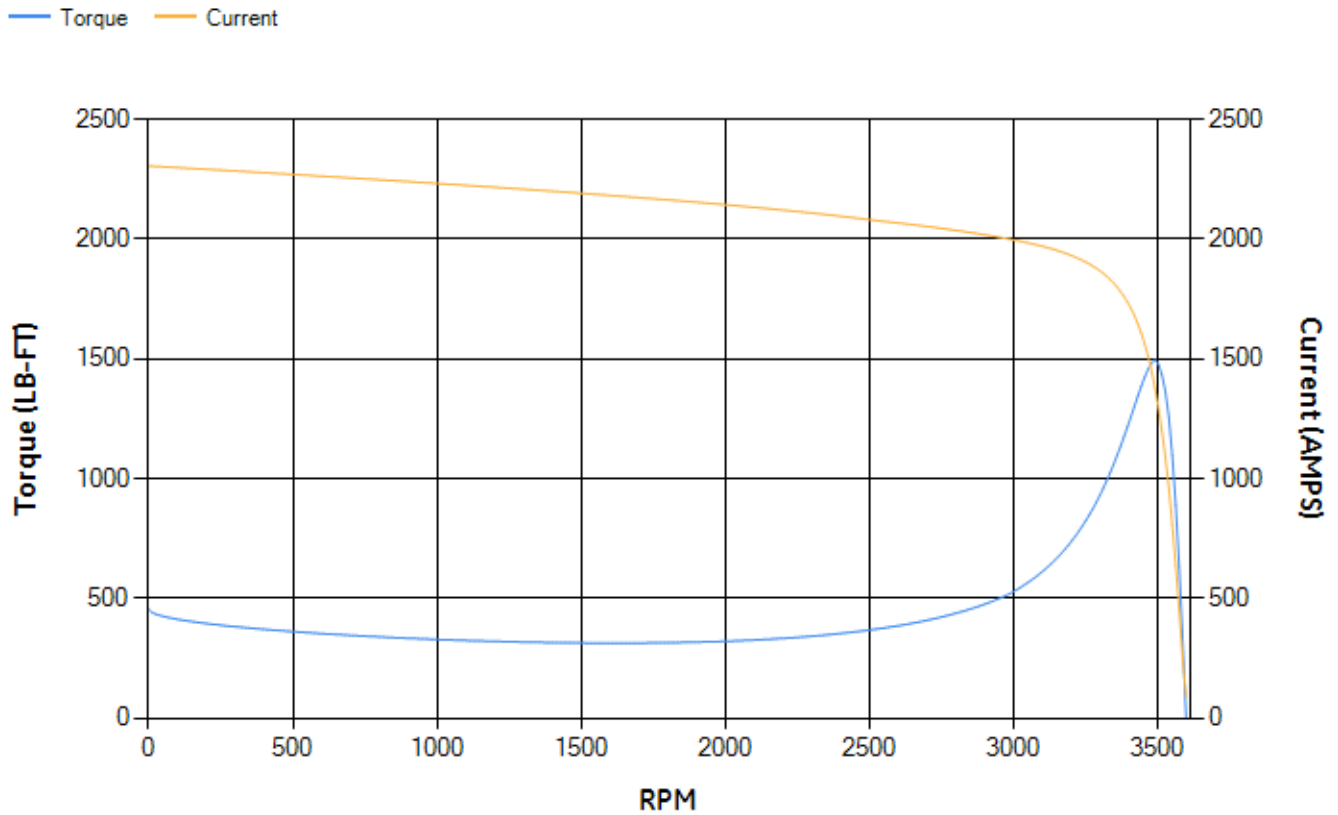
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96	96.1	96.38	96.12	95.5	92.81	0.00
% PF	90.56	90.15	89.17	85.9	77.97	56.57	4.55
AMPS	336.43	310.62	272.25	212.54	157.11	111.42	88.99

TORQ(FL)#FT	366.25	TORQ(LR)%FL	124.08	TORQ(BD)%FL	408.45
AMPS(LR)	2305.49	PF AT START	0.18		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 642 Lb-Ft Sq (27.03 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 24 seconds. Safe stall time at 100% voltage is 65 seconds cold, 29 seconds hot. Rotor inertia is 37.59 Lb-Ft Sq (1.58 Kg-meter Sq).

Open Circuit A-C:	1.725	Short Circuit D-C:	0.036
Short Circuit A-C:	0.07	X/R Ratio:	13.621
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20

