

Product Information Packet

November 9, 2016

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

Model Number:	5KS449LAA260A
Catalog Number:	M7669
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239CC801AA

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:	5KS449LAA260A	Estimated Weight:	2910 Lbs
Outline Drawing:	239CC801AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	49BD1174A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449TC	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	300HP 222KW	Guaranteed Efficiency:	95.4
RPM:	1790	3/4 Load Efficiency:	96.2
Voltage:	460	KVA Code:	J
Hertz:	60	Max KVAR:	102.0
Amps - FL:	347.0	Power Factor:	84.0
Service Factor:	1.15	Bearing - DE:	6318ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6318ZC3S0

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:
 1.0 SF VAR TORQUE RANGE 0-60 HZ

Additional Information:

4P - T 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: 49BD1174A

Marks:

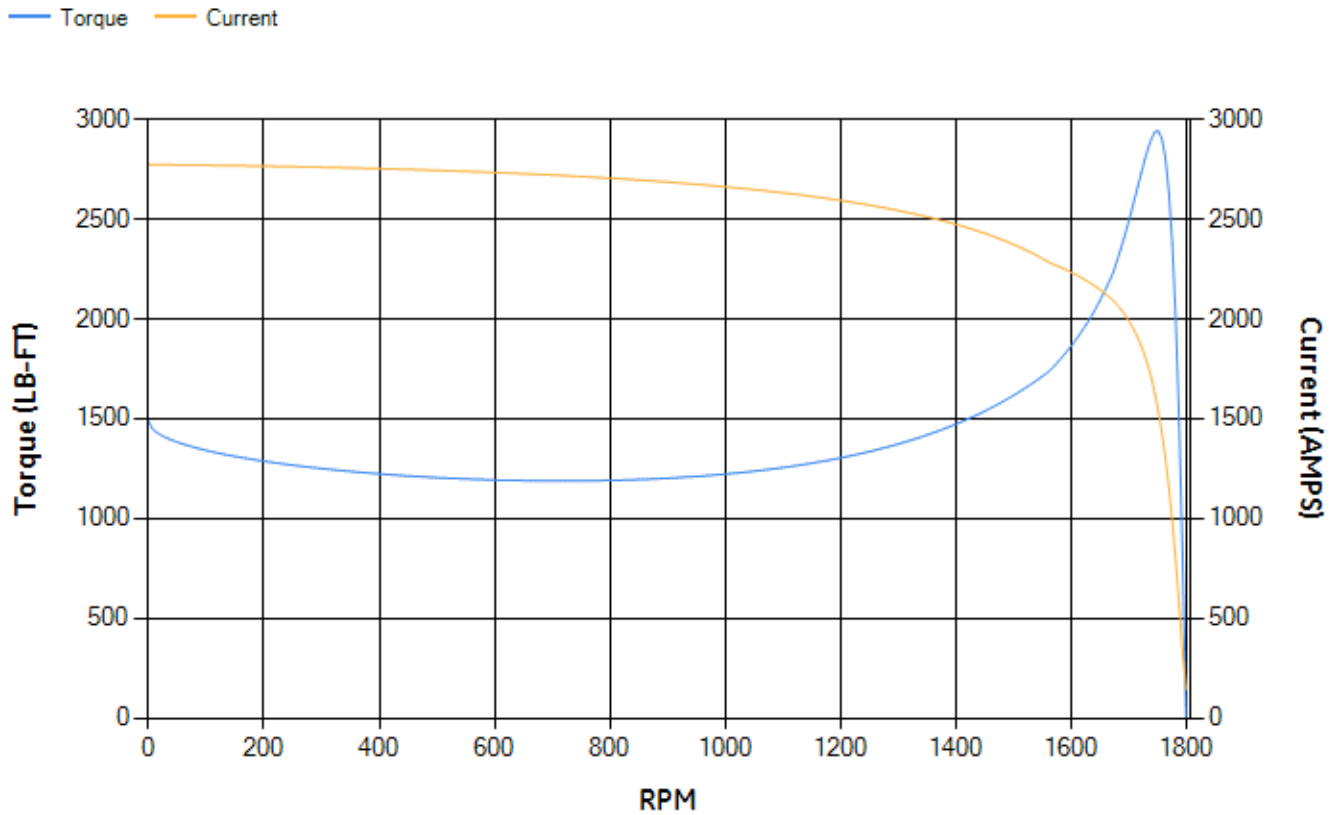
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.85	95.98	96.33	96.18	95.71	93.36	0.00
% PF	86.22	85.52	83.96	79.14	68.74	45.77	3.04
AMPS	424.67	393.36	347.19	276.67	213.37	164.27	141.78

TORQ(FL)#FT	878.68	TORQ(LR)%FL	169.31	TORQ(BD)%FL	334.79
AMPS(LR)	2773.01	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4700 Lb-Ft Sq (197.87 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 25 seconds. Safe stall time at 100% voltage is 71 seconds cold, 38 seconds hot. Rotor inertia is 119.8 Lb-Ft Sq (5.04 Kg-meter Sq).

Open Circuit A-C:	1.457	Short Circuit D-C:	0.025
Short Circuit A-C:	0.067	X/R Ratio:	9.506
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20

