

Product Information Packet

November 9, 2016

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

Model Number:	5KS447LAA125A
Catalog Number:	M7657
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239CC801AB

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:	5KS447LAA125A	Estimated Weight:	2420 Lbs
Outline Drawing:	239CC801AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	49BD0084A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	447TSC	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	2	Nominal Efficiency:	95.8 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.0
RPM:	3580	3/4 Load Efficiency:	95.6
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	45.2
Amps - FL:	218.0	Power Factor:	89.5
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

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
 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING
 VIBRATION LIMIT 0.15 INCH PER SEC

Performance Characteristics

1st Winding 1st Connection

Design: 49BD0084A

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.3	95.45	95.81	95.64	95.08	92.32	0.00
% PF	90.36	90.2	89.63	87.24	80.74	61.13	5.48
AMPS	271.72	250.04	217.99	168.25	121.93	82.92	62.87

TORQ(FL)#FT 293.23
AMPS(LR) 1597.84

TORQ(LR)%FL 157.43
PF AT START 0.22

TORQ(BD)%FL 331.2

This motor is capable of two cold or one hot start with a maximum connected load inertia of 503 Lb-Ft Sq (21.18 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 22 seconds. Safe stall time at 100% voltage is 57 seconds cold, 26 seconds hot. Rotor inertia is 32.89 Lb-Ft Sq (1.38 Kg-meter Sq).

Open Circuit A-C: 1.703

Short Circuit D-C: 0.033

Short Circuit A-C: 0.069

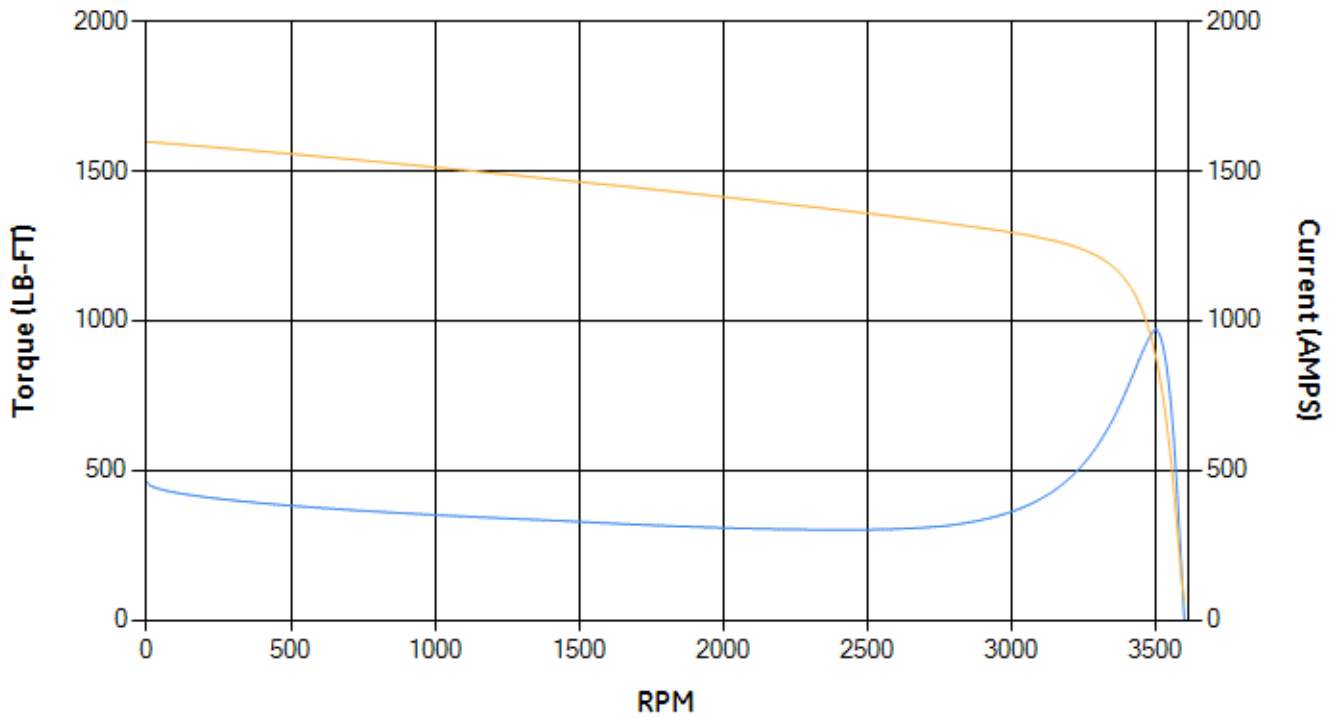
X/R Ratio: 12.272

Stator Slots: 48

Rotor Slots: 38

Speed Torque Current Curve (First Connection, First Speed)

— Torque — Current



Marks:

Connection Diagram
GEM2034E-FIG20

