

Product Information Packet

November 9, 2016

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

Model Number:	5KS447LAA245A
Catalog Number:	M7667
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
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:	5KS447LAA245A	Estimated Weight:	2590 Lbs
Outline Drawing:	239CC801AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	49BD1169A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	447TC	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4
RPM:	1790	3/4 Load Efficiency:	96.5
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	59.9
Amps - FL:	228.0	Power Factor:	85.5
Service Factor:	1.15	Bearing - DE:	6318ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6318ZC3S0

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:

4P - T EXTN
 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: 49BD1169A

Marks:

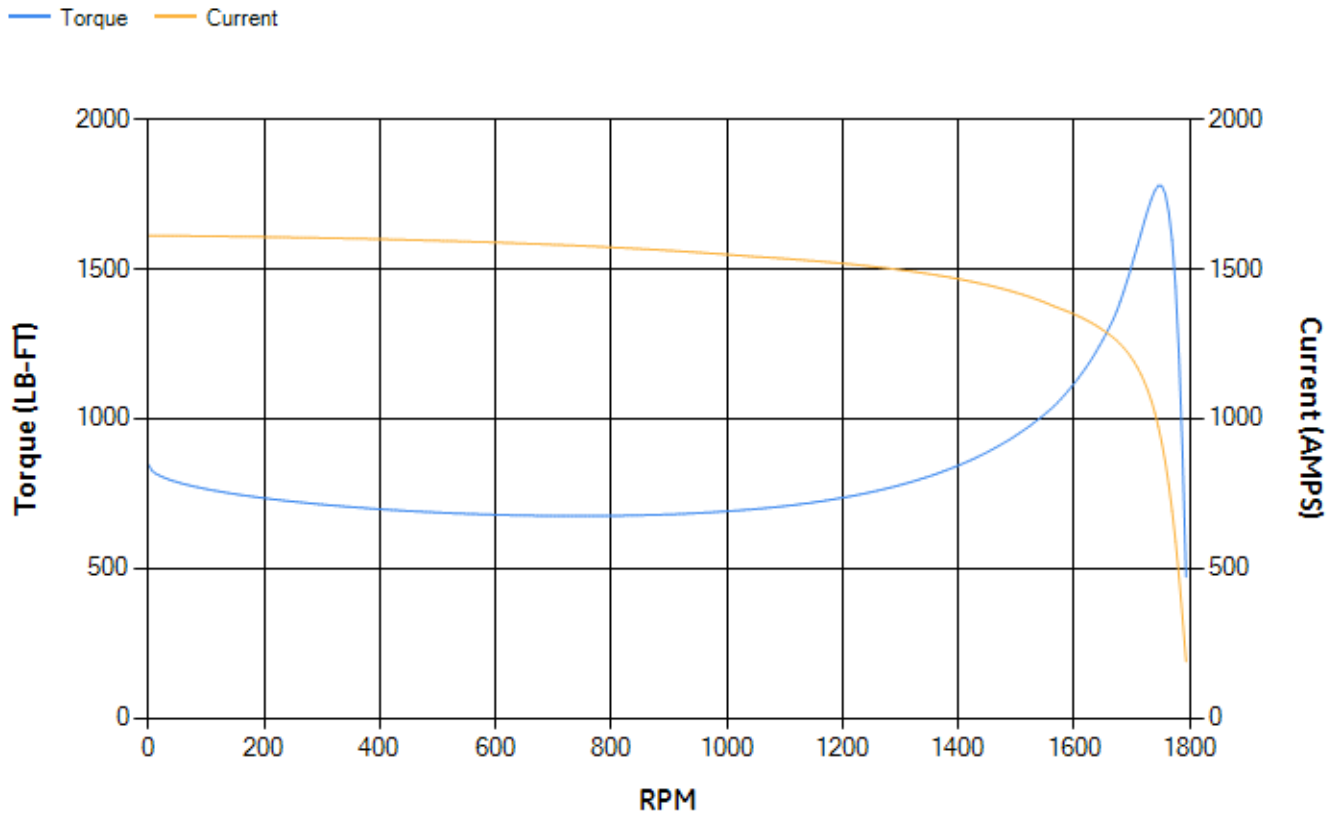
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.82	96.01	96.45	96.49	96.33	94.69	0.00
% PF	87.23	86.74	85.55	81.55	72.24	49.57	2.58
AMPS	279.96	258.49	226.87	178.41	134.49	99.7	83.6

TORQ(FL)#FT	586.19	TORQ(LR)%FL	144.28	TORQ(BD)%FL	303.57
AMPS(LR)	1611.71	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3918 Lb-Ft Sq (164.95 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 38 seconds. Safe stall time at 100% voltage is 118 seconds cold, 59 seconds hot. Rotor inertia is 89 Lb-Ft Sq (3.75 Kg-meter Sq).

Open Circuit A-C:	1.419	Short Circuit D-C:	0.026
Short Circuit A-C:	0.066	X/R Ratio:	9.698
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7

