

Product Information Packet

November 9, 2016

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

Model Number:	5KS444LAA208D1
Catalog Number:	M7938
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239CC600AA

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:	5KS444LAA208D1	Estimated Weight:	1780 Lbs
Outline Drawing:	239CC600AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	SD
Design Code:	44BD1083A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	444T	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	125HP 92.5KW	Guaranteed Efficiency:	94.5
RPM:	1785	3/4 Load Efficiency:	95.5
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	44.9
Amps - FL:	148.0	Power Factor:	83.0
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:
 1.0 SF VAR TORQUE RANGE 0-60 HZ

Additional Information:

4P - T EXTN
 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: 44BD1083A

Marks:

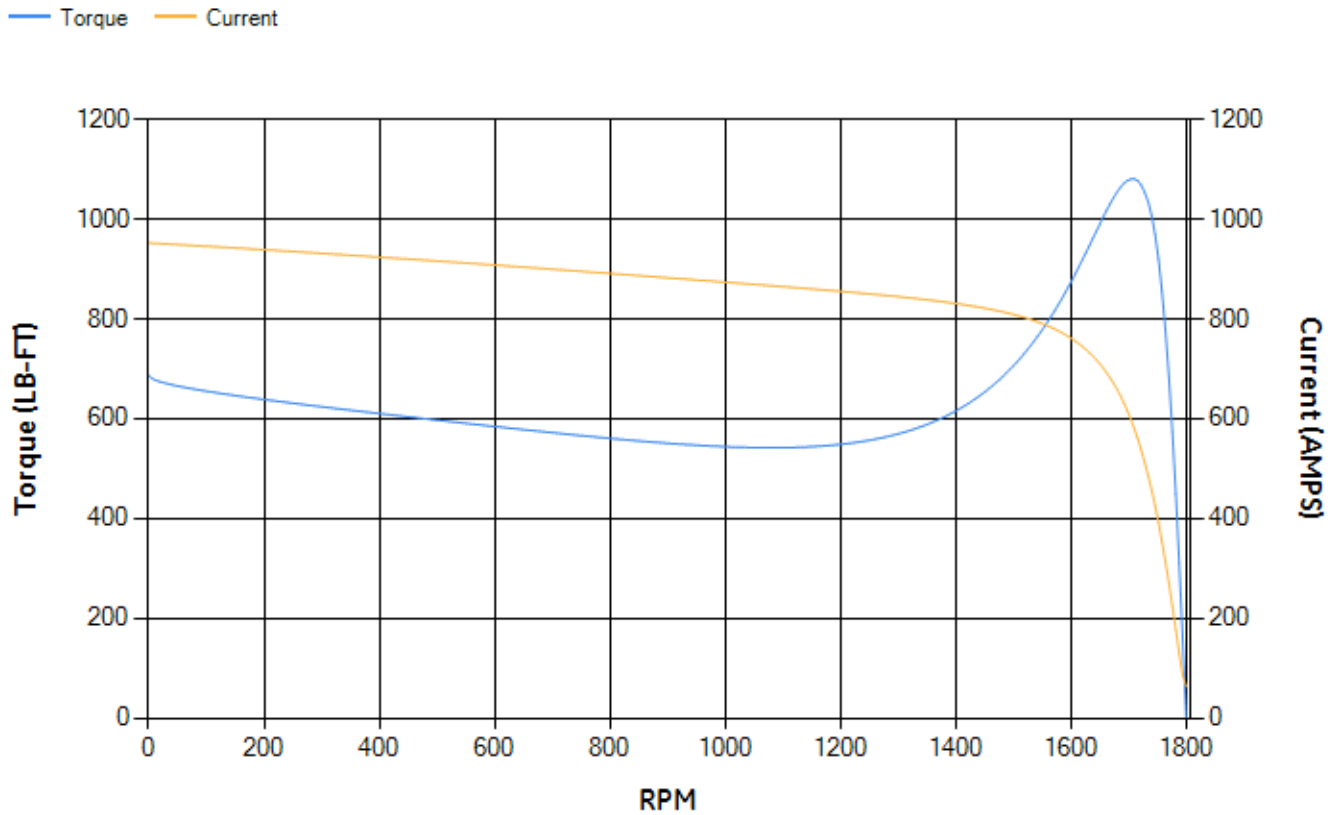
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.05	95.23	95.63	95.54	95.06	92.44	0.00
% PF	85.18	84.47	82.86	77.86	67.18	44.26	3.28
AMPS	180.62	167.26	147.65	117.95	91.6	71.48	62.47

TORQ(FL)#FT	367.97	TORQ(LR)%FL	186.71	TORQ(BD)%FL	293.15
AMPS(LR)	952.24	PF AT START	0.31		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1810 Lb-Ft Sq (76.2 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 21 seconds. Safe stall time at 100% voltage is 52 seconds cold, 25 seconds hot. Rotor inertia is 44.5 Lb-Ft Sq (1.87 Kg-meter Sq).

Open Circuit A-C:	0.636	Short Circuit D-C:	0.027
Short Circuit A-C:	0.038	X/R Ratio:	10.325
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7

