

Product Information Packet

November 7, 2016

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

Model Number:	5KS145ATE105A
Catalog Number:	E719
Instruction Manual:	GEI-M1023
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	358B6213AB

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:	5KS145ATE105A	Estimated Weight:	58 Lbs
Outline Drawing:	358B6213AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	DP
Instruction Book:	GEI-M1023	Encl Construction:	OPEN
Design Code:	14AD0008A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145T	Insulation Class:	F
Phases:	3	NEMA Design:	A
Poles:	2	Nominal Efficiency:	85.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	82.5
RPM:	3480	3/4 Load Efficiency:	89.0
Voltage:	230/460	KVA Code:	L
Hertz:	60	Max KVAR:	.8
Amps - FL:	7.6/3.8	Power Factor:	87.5
Service Factor:	1.15	Bearing - DE:	6205ZZ
Alt Service Factor:	--	Bearing - ODE:	6205ZZ

Enclosure is Dripproof

Stamped Nameplate Notes:**Additional Information:**

2 POLE DP
 LRA: 73.2/36.6
 NO. OF MOTOR LEADS: 9
 CONDUIT BOX VOLUME (IN³): 30.2
 CONDUIT BOX MTL: STAMPED STEEL
 GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE
 USABLE AT 200V @ 3 HP, 8.3 AMPS @ 1.0 SF
 50 HZ DATA: 3HP, 200/400V, 8.6/4.3 AMPS @ 1.0 SF, 2850 RPM
 SOUND POWER: 58.8
 DMK, 06/04, DATA UPDATE 11/2004
 INVERTER DUTY PER NEMA MG1 PART 31
 FOR VARIABLE TORQUE LOADS

Performance Characteristics

1st Winding 1st Connection

Design: 14AD0008A

Marks:

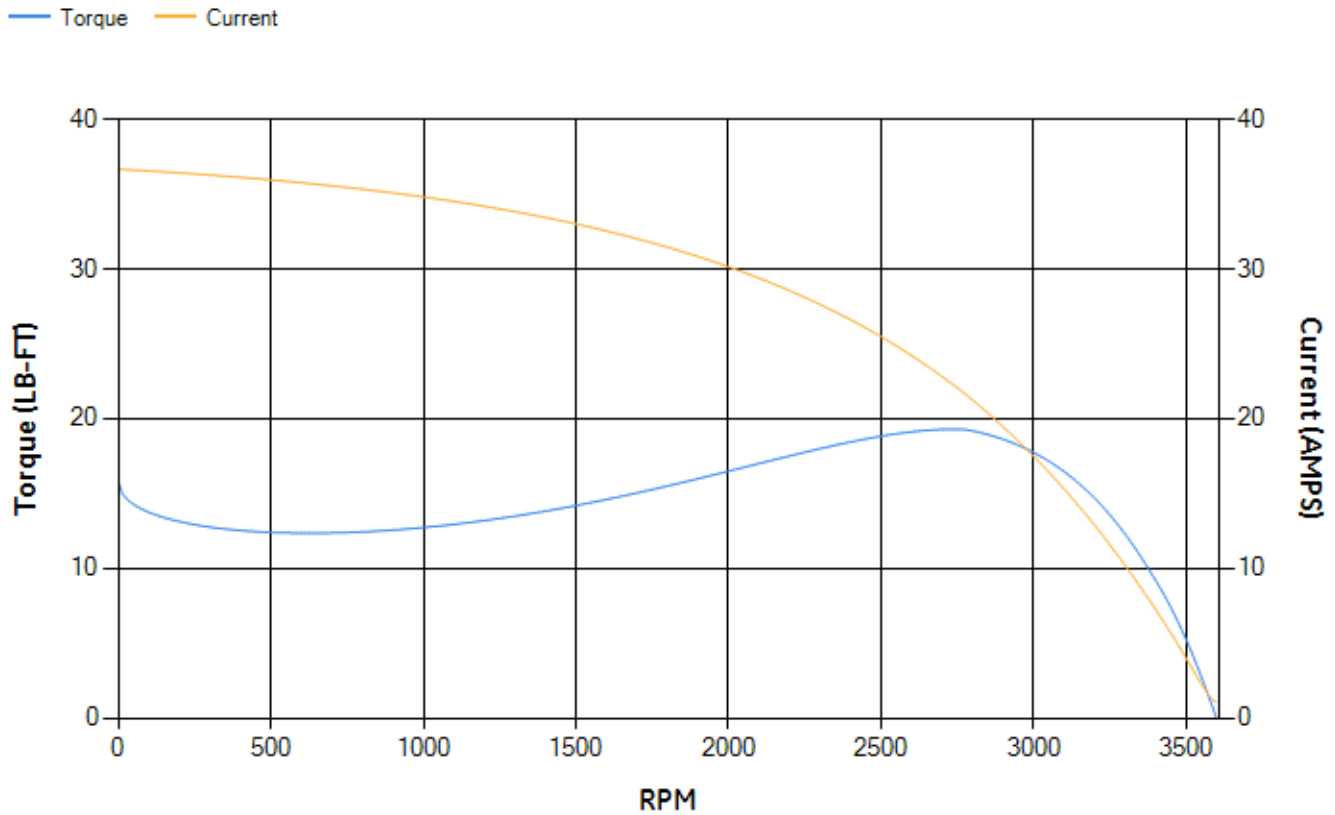
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.08	86.86	88.08	89.04	88.98	84.96	0.00
% PF	92.14	91.76	90.84	87.76	80.34	60.26	9.76
AMPS	4.42	4.05	3.51	2.69	1.96	1.37	1.06

TORQ(FL)#FT	4.51	TORQ(LR)%FL	349.89	TORQ(BD)%FL	409.65
AMPS(LR)	36.66	PF AT START	0.63		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 14 Lb-Ft Sq (0.59 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 12 seconds. Safe stall time at 100% voltage is 25 seconds cold, 18 seconds hot. Rotor inertia is 0.07 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.288	Short Circuit D-C:	0.004
Short Circuit A-C:	0.006	X/R Ratio:	1.6
Stator Slots:	24	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG3

