

Product Information Packet

November 7, 2016

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

Model Number:	5KS145ATE202AF2
Catalog Number:	E793
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:	5KS145ATE202AF2	Estimated Weight:	53 Lbs
Outline Drawing:	358B6213AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	DP
Instruction Book:	GEI-M1023	Encl Construction:	OPEN
Design Code:	14AD1004A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	86.5 %
Output Power:	1.5HP 1.1KW	Guaranteed Efficiency:	84.0
RPM:	1730	3/4 Load Efficiency:	88.4
Voltage:	230/460	KVA Code:	M
Hertz:	60	Max KVAR:	.7
Amps - FL:	4.2/2.1	Power Factor:	78
Service Factor:	1.15	Bearing - DE:	6205ZZ
Alt Service Factor:	--	Bearing - ODE:	6205ZZ

Enclosure is Dripproof

Stamped Nameplate Notes:**Additional Information:**

4 POLE DP
 LRA: 30.4/15.2
 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 @ 1.5 HP, 4.5 AMPS @ 1.0 SF
 50 HZ DATA: 1.5 HP, 200/400V, 4.6/2.3 AMPS @ 1.0 SF, 1410 RPM
 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: 14AD1004A

Marks:

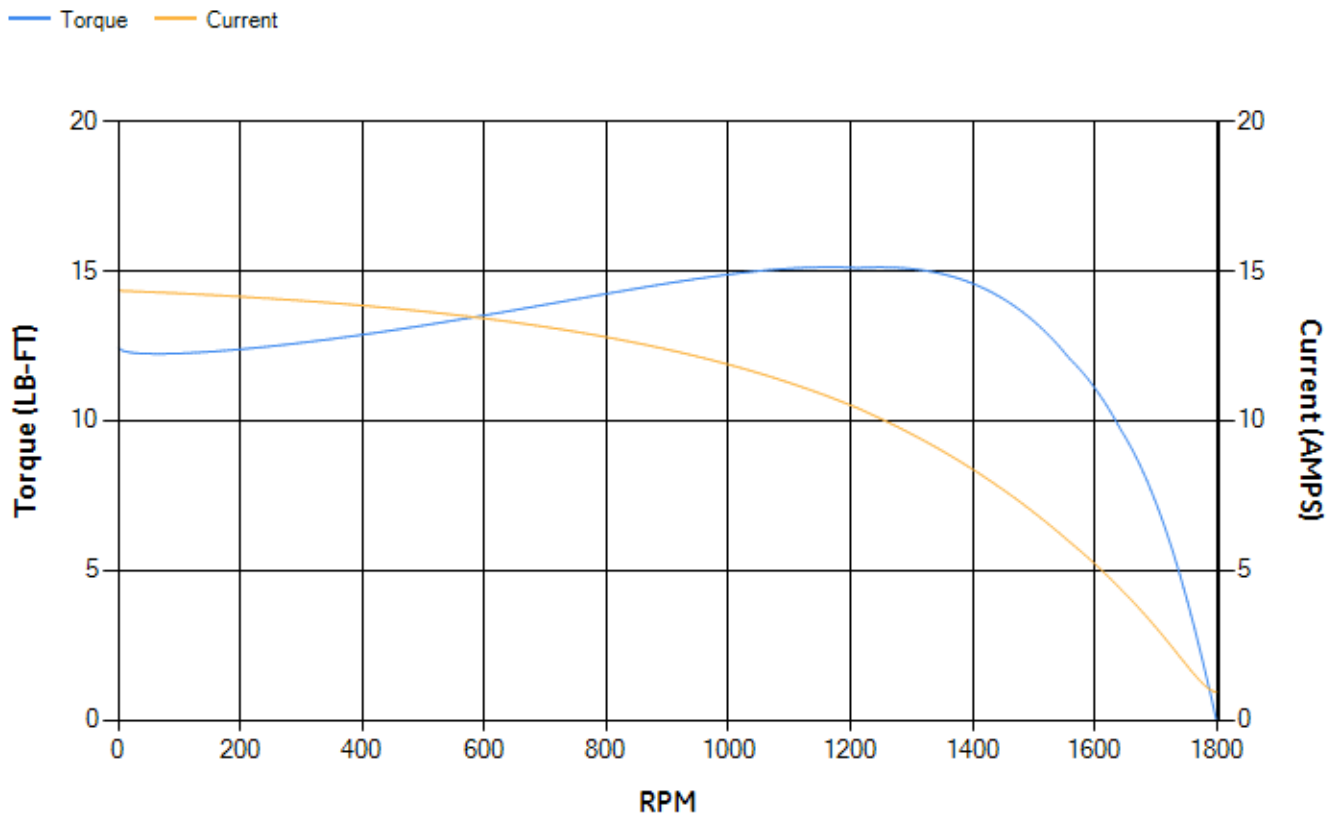
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.22	86.9	87.92	88.45	87.72	82.33	0.00
% PF	83	82.04	79.97	73.96	62.36	40.8	6.9
AMPS	2.45	2.26	2	1.61	1.28	1.04	0.93

TORQ(FL)#FT	4.54	TORQ(LR)%FL	274.08	TORQ(BD)%FL	327.68
AMPS(LR)	14.34	PF AT START	0.54		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 74 Lb-Ft Sq (3.12 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 36 seconds. Safe stall time at 100% voltage is 86 seconds cold, 61 seconds hot. Rotor inertia is 0.11 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.144	Short Circuit D-C:	0.007
Short Circuit A-C:	0.007	X/R Ratio:	2.608
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG3

