

Product Information Packet

November 8, 2016

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

Model Number:	5KS145STE104A
Catalog Number:	M7502
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	358B6269AB

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:	5KS145STE104A	Estimated Weight:	63 Lbs
Outline Drawing:	358B6269AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	14AD0013B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	145T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	85.5 %
Output Power:	2HP 1.5KW	Guaranteed Efficiency:	82.5
RPM:	3505	3/4 Load Efficiency:	89.6
Voltage:	575	KVA Code:	L
Hertz:	60	Max KVAR:	0.5
Amps - FL:	1.9	Power Factor:	90.5
Service Factor:	1.15	Bearing - DE:	6205ZZC3
Alt Service Factor:	--	Bearing - ODE:	6205ZZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:**Additional Information:**

2 POLE, TEFC, LRA: 19.8 AMPS.
 SOUND POWER : 85.0 DBA
 GREASE: SHELL ALVANIA R3 LITHIUM GREASE
 NO. OF MOTOR LEADS: 3
 CONDUIT BOX VOLUME (CU IN): 47.1
 CONDUIT BOX MATERIAL: CAST IRON
 SUITABLE FOR USE IN CLASS I DIVISION 2 LOCATIONS
 CLASS I DIVISION 2 GROUPS A,B,C,D T3C
 CLASS I ZONE 2 IIC T3C

Performance Characteristics

1st Winding 1st Connection

Design: 14AD0013B

Marks:

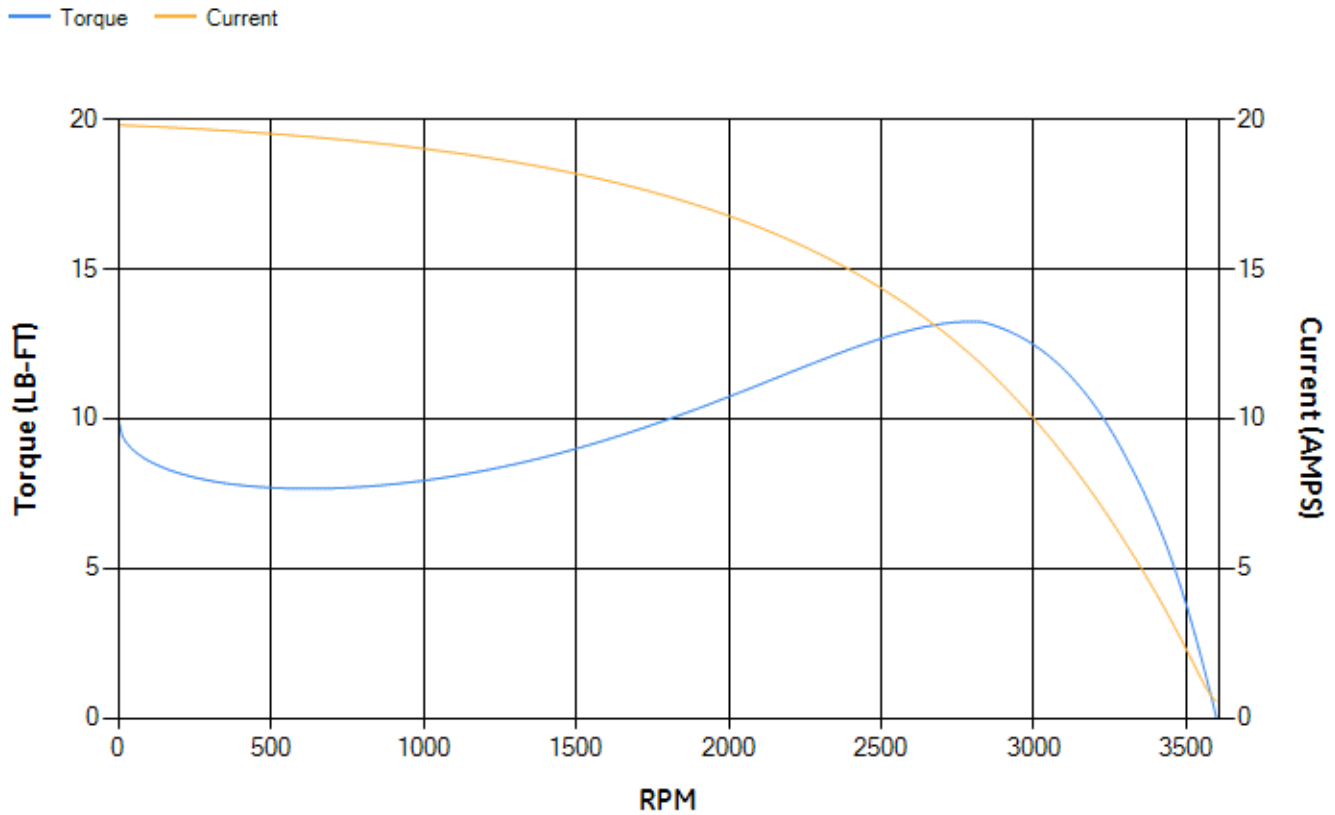
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.66	88.22	89.13	89.58	88.97	84.15	0.00
% PF	91.8	91.4	90.45	87.34	79.97	60.34	10.81
AMPS	2.33	2.14	1.86	1.44	1.05	0.74	0.57

TORQ(FL)#FT	2.99	TORQ(LR)%FL	332.48	TORQ(BD)%FL	425.77
AMPS(LR)	19.81	PF AT START	0.54		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 17 Lb-Ft Sq (0.72 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 23 seconds. Safe stall time at 100% voltage is 39 seconds cold, 33 seconds hot. Rotor inertia is 0.07 Lb-Ft Sq (0 Kg-meter Sq).

Open Circuit A-C:	0.335	Short Circuit D-C:	0.006
Short Circuit A-C:	0.007	X/R Ratio:	2.188
Stator Slots:	24	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG1

