

Product Information Packet

November 8, 2016

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

Model Number:	5KS182STE104A
Catalog Number:	M7503
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	358B6270AA

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:	5KS182STE104A	Estimated Weight:	82 Lbs
Outline Drawing:	358B6270AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	18AD0011B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	182T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	86.5 %
Output Power:	3HP 2.2KW	Guaranteed Efficiency:	84.0
RPM:	3525	3/4 Load Efficiency:	90.9
Voltage:	575	KVA Code:	K
Hertz:	60	Max KVAR:	0.7
Amps - FL:	2.9	Power Factor:	91.0
Service Factor:	1.15	Bearing - DE:	6207ZZC3
Alt Service Factor:	--	Bearing - ODE:	6206ZZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:**Additional Information:**

2 POLE, TEFC, LRA: 23.8 AMPS.
 SOUND POWER : 88.0 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: 18AD0011B

Marks:

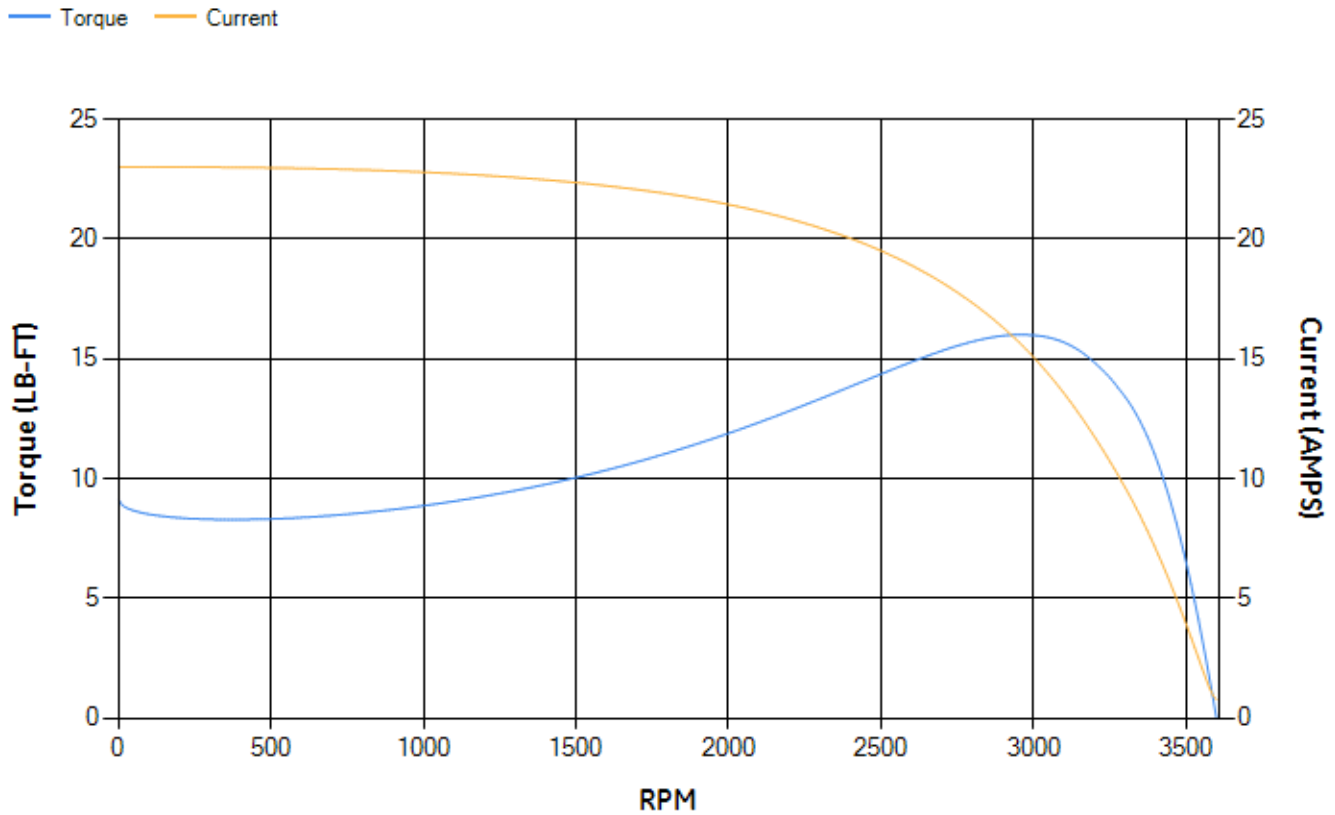
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.35	89.81	90.59	90.9	90.32	85.96	0.00
% PF	92.42	92.1	91.32	88.66	82.09	63.3	10.4
AMPS	3.4	3.12	2.72	2.09	1.51	1.03	0.76

TORQ(FL)#FT	4.47	TORQ(LR)%FL	204.54	TORQ(BD)%FL	353.82
AMPS(LR)	23.01	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 30 Lb-Ft Sq (1.26 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, 68 seconds hot. Rotor inertia is 0.15 Lb-Ft Sq (0.01 Kg-meter Sq).

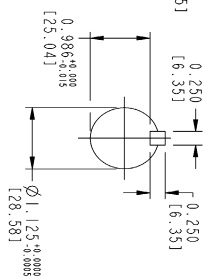
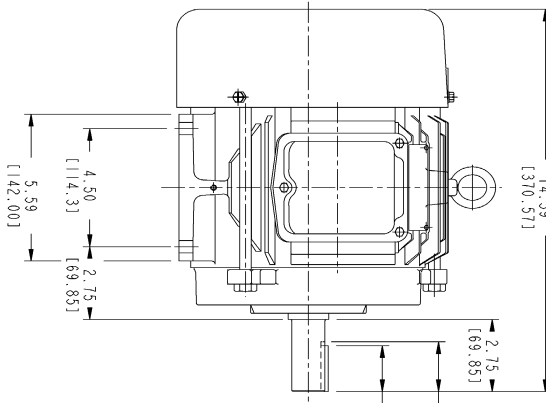
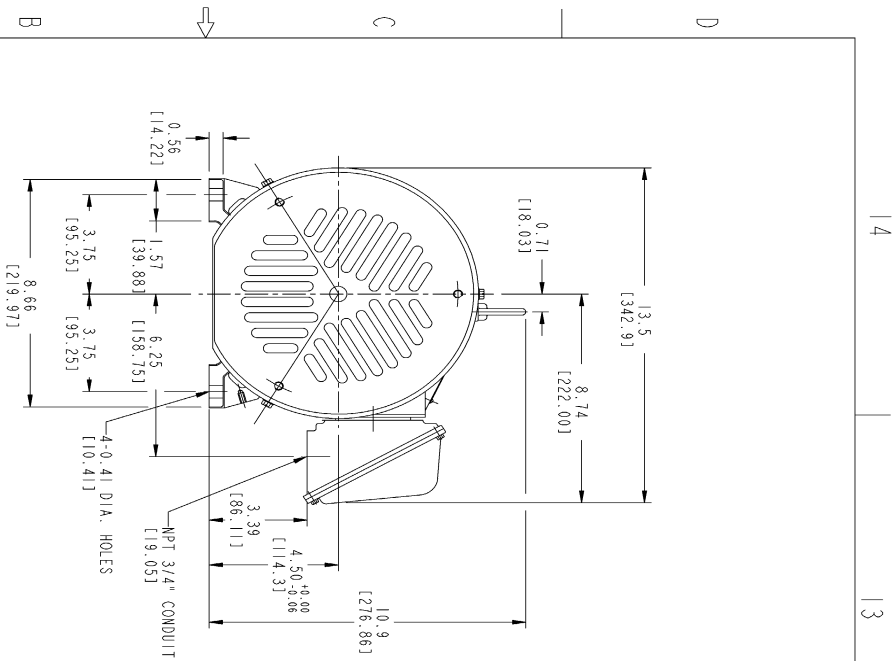
Open Circuit A-C:	0.452	Short Circuit D-C:	0.007
Short Circuit A-C:	0.012	X/R Ratio:	2.777
Stator Slots:	36	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



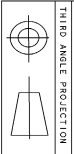
NAME:501291659 OBJECT:358B6270AA DATE:05-Dec-07 10:03:11

Marks:



- NOTES :
1. DIMENSIONS ARE IN INCHES
 2. F-1 ASM AS SHOWN
 3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS)
 5. IC411, IP94, IMB34 APPLY

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REV.	DESCRIPTION
DATE	APPROVED
358B6270AA	0



THIRD ANGLE PROJECTION

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
REFLECTED DIMENSIONS	MODEL	11/05/07
UNREFLECTED DIMENSIONS	QUANTITY	11/05/07
TOLERANCE ON:	SKETCH	11/05/07
2 PL DECIMALS ±	ENGINE	11/05/07
3 PL DECIMALS ±	WEIGHT	
ANGLES ±	QUALITY	
FRACTIONS ±	ISSUED	11/05/07
FINISH	QUANTITY	
SOLID MODEL	MODEL NAME	
SCALE:	SCALE:	

GE Consumer & Industrial
OUTLINE
 FTD - 182T TERC CE MARK
 471 CU IN CONDUIT BOX
 358B6270AA
 SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG1

