

Product Information Packet

November 9, 2016

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

Model Number:	5KS145STE105A
Catalog Number:	M7702
Instruction Manual:	GEI-M1031
Connection Diagram:	GEM2034E-FIG203
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:	5KS145STE105A	Estimated Weight:	67 Lbs
Outline Drawing:	358B6269AB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG203	Enclosure:	TEFC
Instruction Book:	GEI-M1031	Encl Construction:	SD
Design Code:	14AD0013A	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:	230/460	KVA Code:	L
Hertz:	60	Max KVAR:	0.5
Amps - FL:	4.8/2.4	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:

USABLE AT 200V @ 2 HP, 4.2 AMPS @ 1.0 SF

LRA: 49.6/24.8

50HZ DATA: 1.5 HP, 200/400V, 4.6/2.3 AMPS @ 1.15 SF

50HZ DATA: 2 HP, 200/400V, 5.6/2.8 AMPS @ 1.00 SF

GREASE TYPE: SHELL ALVANIA R3 LITHIUM GREASE

Additional Information:

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: 14AD0013A

Marks:

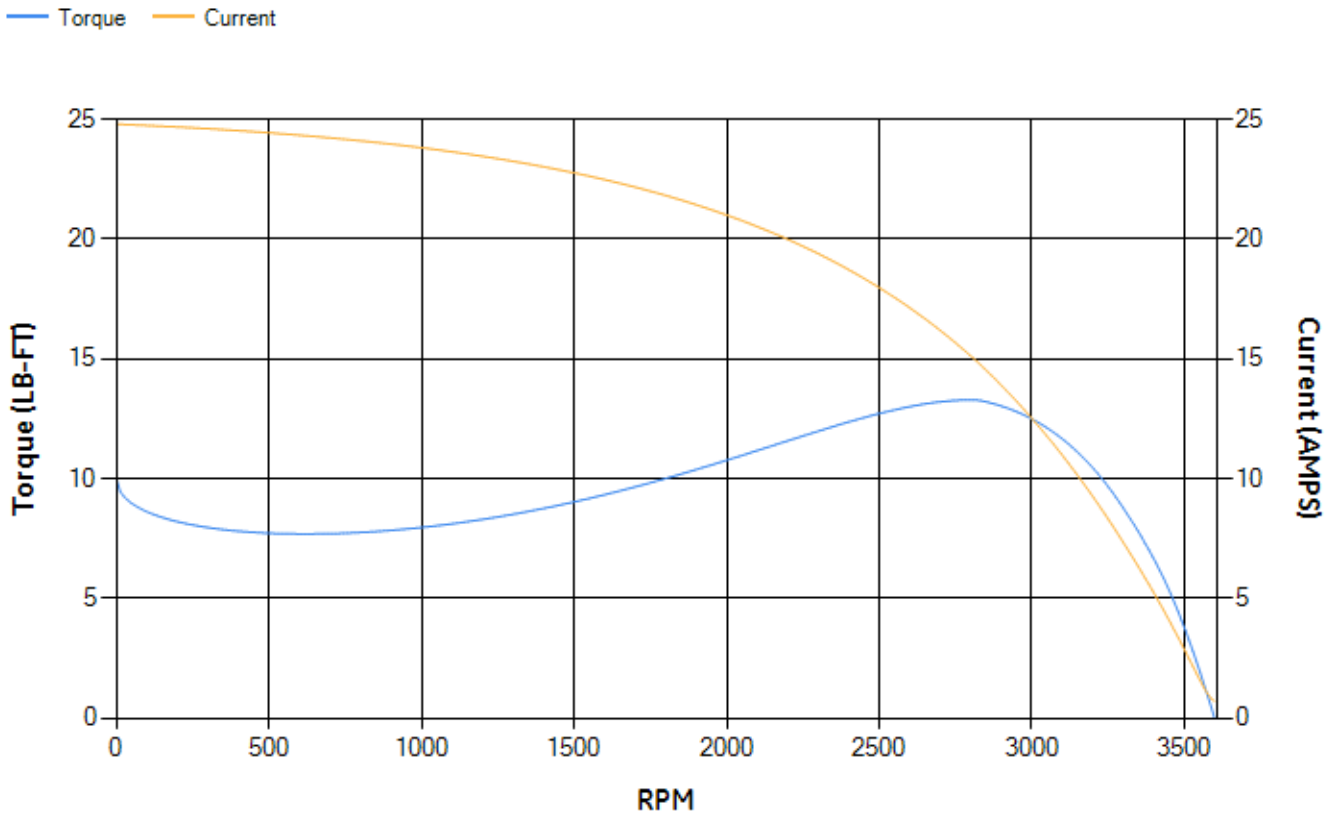
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.7	88.26	89.15	89.6	88.99	84.17	0.00
% PF	91.79	91.39	90.44	87.33	79.96	60.32	10.8
AMPS	2.91	2.67	2.32	1.79	1.32	0.92	0.71

TORQ(FL)#FT	2.99	TORQ(LR)%FL	333.5	TORQ(BD)%FL	426.79
AMPS(LR)	24.8	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).

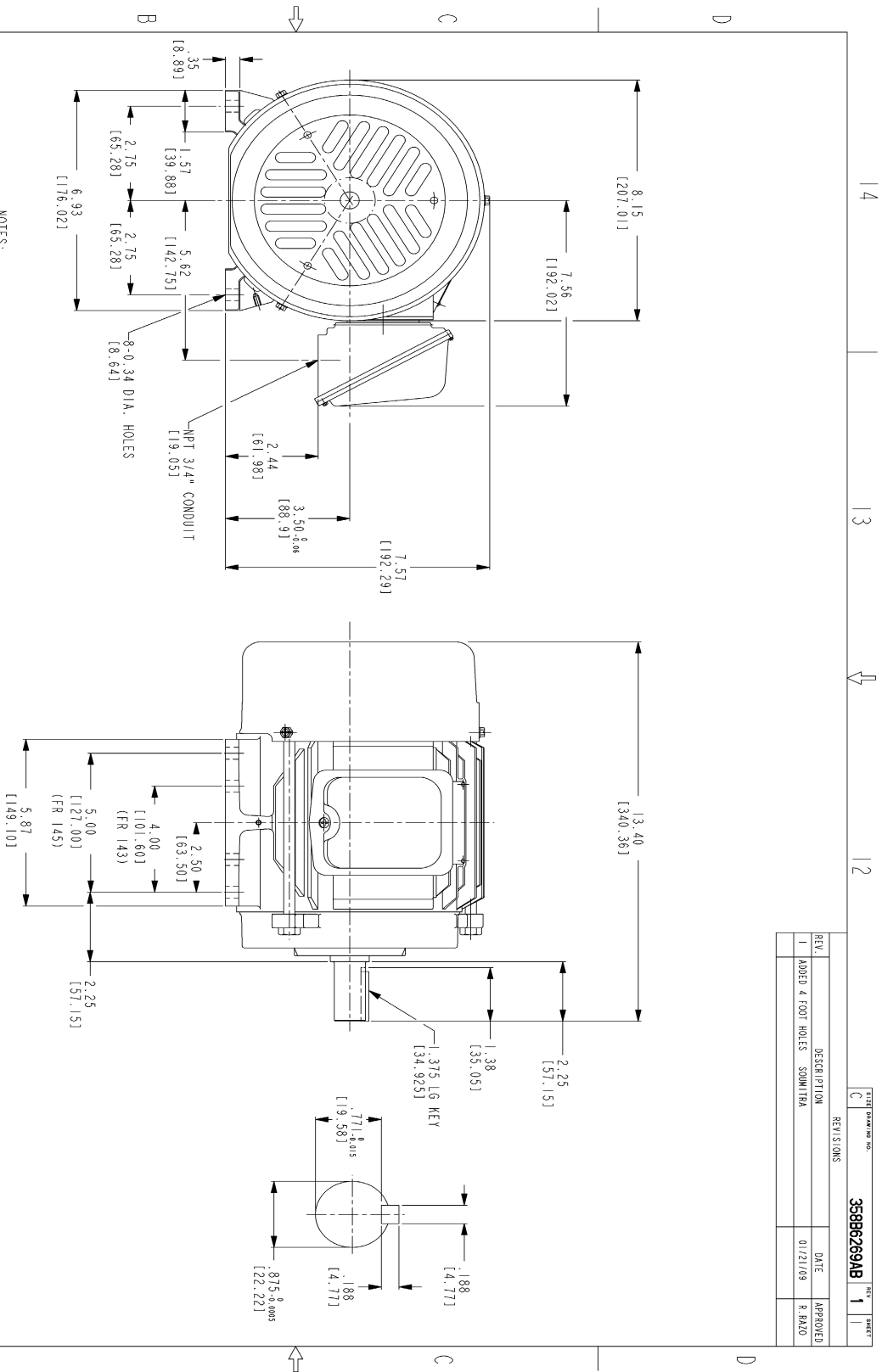
Open Circuit A-C:	0.335	Short Circuit D-C:	0.006
Short Circuit A-C:	0.007	X/R Ratio:	2.203
Stator Slots:	24	Rotor Slots:	28

Speed Torque Current Curve (First Connection, First Speed)



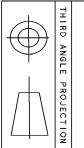
NAME:501452442 OBJECT:358B6269AB DATE:22-Jan-09 11:08:53

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.



Part must conform to SI 900000
Sect 4, Toxicity Procedure

REV.	DESCRIPTION	DATE	APPROVED
1	ADDED 4 FOOT HOLES	01/21/09	R. PALO

FOR ADDITIONAL INFO REFER TO:	SIGNATURES	DATE
REVISIONS		
DRAWING SPECIFIED		
DIMENSIONS ARE IN INCHES		
TOLERANCE ON DIMENSIONS		
1. F.L. DECIMALS ± 0.1		
2. F.L. DECIMALS ± 0.02		
3. F.L. DECIMALS ± 0.05		
ANGLES ± 0.5		
FRACTIONS ±		
FINISH		
MATERIAL		
SOUD MODEL NAME		

REV.	DATE	APPROVED
1	12/26/07	

GE Consumer & Industrial
GENERAL ELECTRIC COMPANY

OUTLINE
FTD - H37/H37 TERC CE MARK
471 CU IN CONDUIT BOX

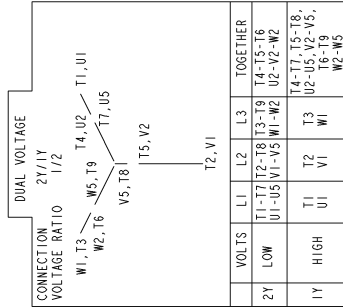
358B6269AB
REV 1

SCALE: DRAWING SCALE

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG203



NAME: 500903578 OBJECT: GEM2034E-FIG203 DATE: 03-Nov-06 13:53:10