

Product Information Packet

November 7, 2016

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

| | |
|----------------------------|----------------------|
| Model Number: | 5KS143ATE105A |
| Catalog Number: | E709 |
| Instruction Manual: | GEI-M1023 |
| Connection Diagram: | GEM2034E-FIG3 |
| Outline Drawing: | 358B6213AA |

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: | 5KS143ATE105A | Estimated Weight: | 48 Lbs |
| Outline Drawing: | 358B6213AA | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG3 | Enclosure: | DP |
| Instruction Book: | GEI-M1023 | Encl Construction: | OPEN |
| Design Code: | 14AD0009A | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 143T | Insulation Class: | F |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 2 | Nominal Efficiency: | 84 % |
| Output Power: | 1.5HP 1.1KW | Guaranteed Efficiency: | 81.5 |
| RPM: | 3495 | 3/4 Load Efficiency: | 87.5 |
| Voltage: | 230/460 | KVA Code: | M |
| Hertz: | 60 | Max KVAR: | .4 |
| Amps - FL: | 3.8/1.9 | Power Factor: | 86.5 |
| 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: 36/18
 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, 4.3 AMPS @ 1.0 SF
 50 HZ DATA: 1.5 HP, 200/400V, 4.4/2.2 AMPS @ 1.0 SF, 2880 RPM
 SOUND POWER: 58.6
 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: 14AD0009A

Marks:

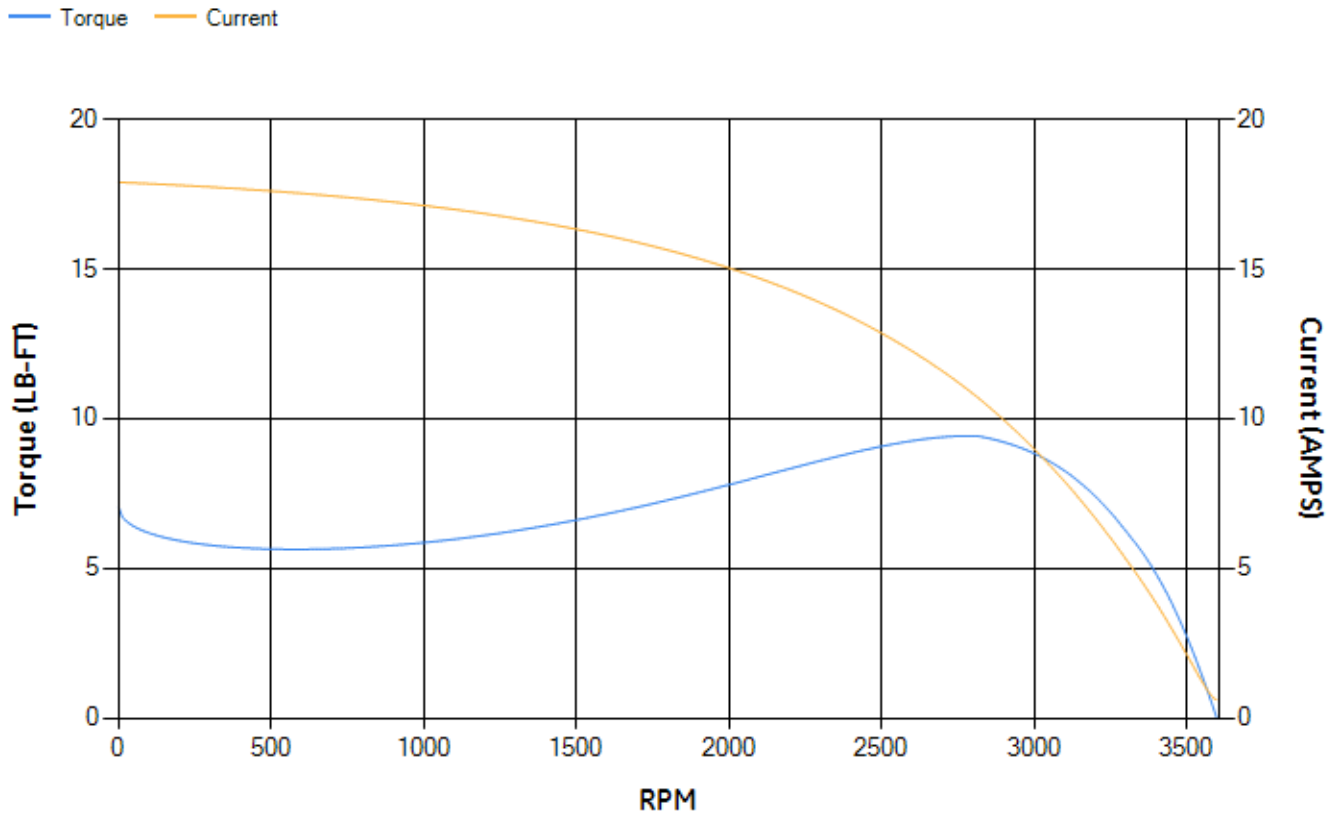
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|
| % EFF | 85.96 | 86.5 | 87.32 | 87.51 | 86.31 | 79.91 | 0.00 |
| % PF | 91.4 | 90.87 | 89.71 | 86.1 | 77.98 | 58.06 | 13.04 |
| AMPS | 2.23 | 2.05 | 1.79 | 1.4 | 1.04 | 0.76 | 0.6 |

| | | | | | |
|-------------|------|-------------|-------|-------------|-------|
| TORQ(FL)#FT | 2.25 | TORQ(LR)%FL | 314.4 | TORQ(BD)%FL | 404.8 |
| AMPS(LR) | 17.9 | PF AT START | 0.6 | | |

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 27 seconds. Safe stall time at 100% voltage is 48 seconds cold, 42 seconds hot. Rotor inertia is 0.05 Lb-Ft Sq (0 Kg-meter Sq).

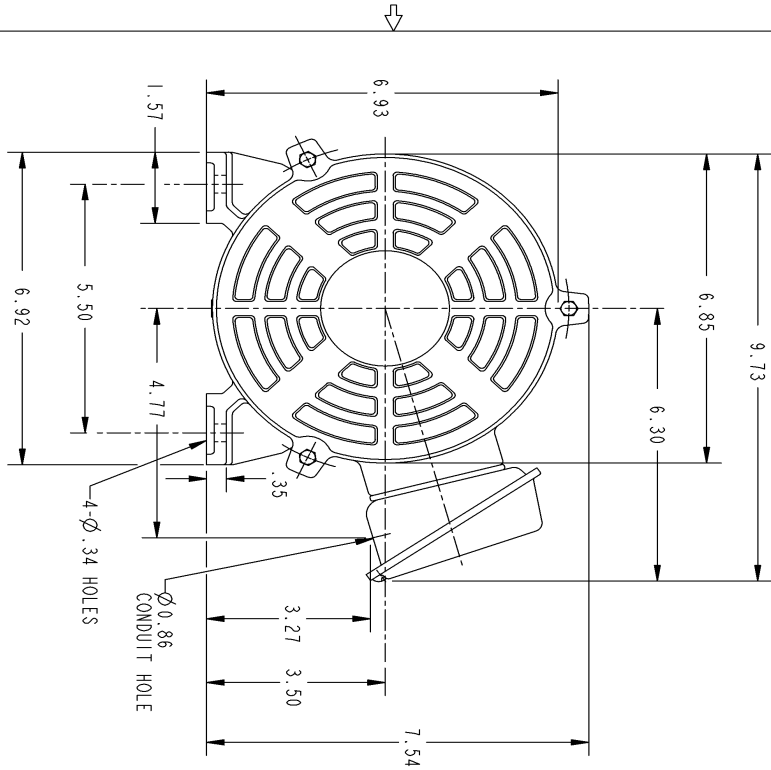
| | | | |
|--------------------|-------|--------------------|-------|
| Open Circuit A-C: | 0.3 | Short Circuit D-C: | 0.005 |
| Short Circuit A-C: | 0.007 | X/R Ratio: | 1.855 |
| Stator Slots: | 24 | Rotor Slots: | 28 |

Speed Torque Current Curve (First Connection, First Speed)



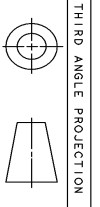
NAME:501452442 OBJECT:358B6213AA DATE:23-May-07 23:02:23

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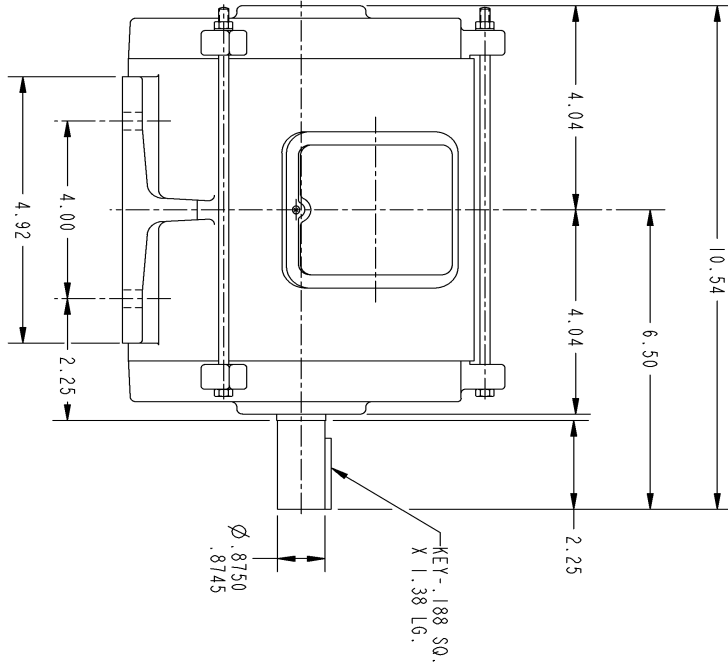
NOTES :

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASM AS SHOWN.
3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE.



THIRD ANGLE PROJECTION

| B 358B6213AA | | REV 2 | |
|---|--------------------|----------|----------|
| GE PROPRIETARY INNOVATION | | | |
| <p>This drawing is the property of General Electric Company (GE) and contains confidential information. This drawing is loaned to the recipient under the understanding that the information contained herein shall be disclosed to no other person and shall be returned to GE upon its request. This drawing shall be returned to GE upon its request. This drawing shall be returned to GE upon its request. This drawing shall be returned to GE upon its request. This drawing shall be returned to GE upon its request.</p> | | | |
| REV. | DESCRIPTION | DATE | APPROVED |
| 1 | Updated dimensions | 9/20/06 | |
| 2 | ISAAC 07-0770 | 05/02/07 | R. KOHNE |



| | | | | | |
|-----------------------------|--|---|--|--|--|
| UNLESS OTHERWISE SPECIFIED: | | SIGNATURES | | DATE | |
| DIMENSIONS ARE IN INCHES | | DRAWN | | P. RAJU 03/28/03 | |
| TOLERANCE ON: | | CHECKED | | PRABHAKAR 03/27/03 | |
| 2 PL DECIMALS ± . | | ENGR | | | |
| 3 PL DECIMALS ± . | | ISSUED | | PRABHAKAR 03/27/03 | |
| ANGLES ± 0.5 | | APPLIED PRACTICES | | | |
| MATERIAL: | | SIZE DRAWING | | REV. | |
| | | B | | 2 | |
| | | SCALE: DRAWING SCALE | | SHEET 1 OF 1 | |
| | | | | GENERAL ELECTRIC COMPANY Fort Wayne, Indiana | |
| | | OUTLINE 143T - OPEN DRIP PROOF 358B6213AA | | | |

DISTRIBUTION:

Marks:

Connection Diagram
GEM2034E-FIG3

