

Product Information Packet

November 8, 2016

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

| | |
|----------------------------|----------------------|
| Model Number: | 5KS326STE114A |
| Catalog Number: | M7513 |
| Instruction Manual: | GEI-M1031 |
| Connection Diagram: | GEM2034E-FIG7 |
| Outline Drawing: | 358B6274AD |

| 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: | 5KS326STE114A | Estimated Weight: | 697 Lbs |
| Outline Drawing: | 358B6274AD | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG7 | Enclosure: | TEFC |
| Instruction Book: | GEI-M1031 | Encl Construction: | SD |
| Design Code: | 32AD0013B | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 326TS | Insulation Class: | F |
| Phases: | 3 | NEMA Design: | A |
| Poles: | 2 | Nominal Efficiency: | 93.0 % |
| Output Power: | 50HP 37KW | Guaranteed Efficiency: | 91.7 |
| RPM: | 3545 | 3/4 Load Efficiency: | 93.3 |
| Voltage: | 575 | KVA Code: | G |
| Hertz: | 60 | Max KVAR: | 7.4 |
| Amps - FL: | 35.6 | Power Factor: | 91.5 |
| Service Factor: | 1.15 | Bearing - DE: | 6312C3 |
| Alt Service Factor: | -- | Bearing - ODE: | 6213C3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:**Additional Information:**

2 POLE, TEFC, LRA: 299.4 AMPS.
 SOUND POWER : 100 DBA
 GREASE: EXXON POLYREX EM
 NO. OF MOTOR LEADS: 3
 CONDUIT BOX VOLUME (CU IN): 272.9
 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: 32AD0013B

Marks:

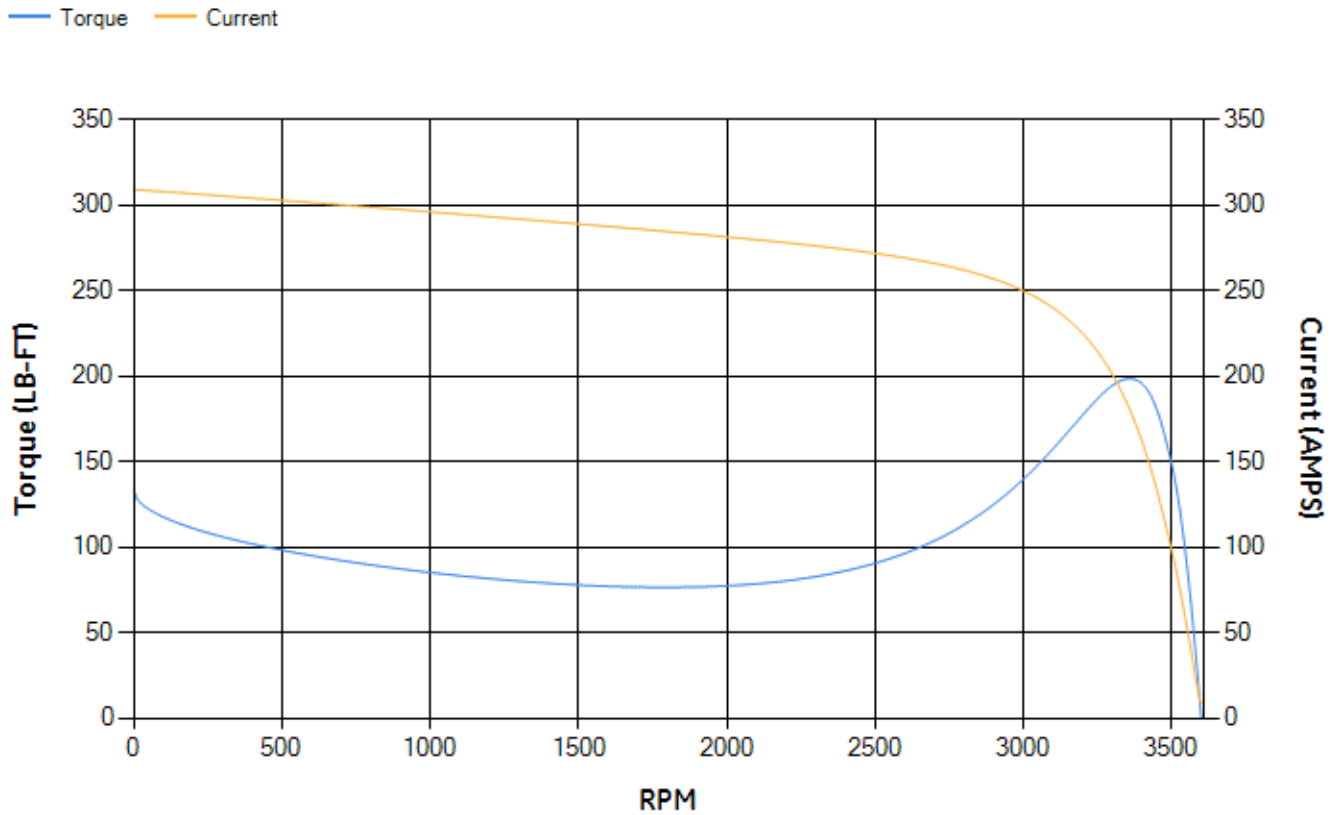
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|
| % EFF | 91.96 | 92.36 | 93.06 | 93.32 | 92.96 | 89.77 | 0.00 |
| % PF | 91.36 | 91.62 | 91.77 | 91.06 | 87.76 | 74.6 | 10.91 |
| AMPS | 55.7 | 50.88 | 43.84 | 33.04 | 22.94 | 13.98 | 8.46 |

| | | | | | |
|-------------|--------|-------------|--------|-------------|--------|
| TORQ(FL)#FT | 74.03 | TORQ(LR)%FL | 180.05 | TORQ(BD)%FL | 266.11 |
| AMPS(LR) | 308.97 | PF AT START | 0.28 | | |

This motor is capable of two cold or one hot start with a maximum connected load inertia of 157 Lb-Ft Sq (6.61 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 24 seconds. Safe stall time at 100% voltage is 47 seconds cold, 29 seconds hot. Rotor inertia is 5.71 Lb-Ft Sq (0.24 Kg-meter Sq).

| | | | |
|--------------------|-------|--------------------|-------|
| Open Circuit A-C: | 0.947 | Short Circuit D-C: | 0.02 |
| Short Circuit A-C: | 0.025 | X/R Ratio: | 7.573 |
| Stator Slots: | 36 | Rotor Slots: | 28 |

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7

