

Product Information Packet

November 8, 2016

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

| | |
|----------------------------|-----------------------|
| Model Number: | 5KS447XAA2044B |
| Catalog Number: | M9362 |
| Instruction Manual: | GEI-56128 |
| Connection Diagram: | GEM2034E-FIG7 |
| Outline Drawing: | 239C6800ZB |

| Accessory Connection Diagrams | | | |
|--------------------------------------|------|------------------------------|------|
| Bearing Thermocouple: | None | Heater: | None |
| RTD: | None | Thermistor: | None |
| Thermostat: | None | Winding Thermocouple: | None |
| Bearing RTD: | None | | |

Table of Contents

| | |
|-----------------------------|----|
| Specification | 01 |
| Performance Characteristics | 02 |
| Outline Drawing | 03 |
| Connection Drawing(s) | 04 |
| Spare parts | 05 |



Marks:

| | | | |
|----------------------------|-----------------------|-------------------------------|----------|
| MODEL NUMBER: | 5KS447XAA2044B | Estimated Weight: | 2770 Lbs |
| Outline Drawing: | 239C6800ZB | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG7 | Enclosure: | TEFC |
| Instruction Book: | GEI-56128 | Encl Construction: | 841 |
| Design Code: | 49BD1177A | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 447T | Insulation Class: | H |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 4 | Nominal Efficiency: | 96.2 % |
| Output Power: | 200HP 148KW | Guaranteed Efficiency: | 95.8 |
| RPM: | 1790 | 3/4 Load Efficiency: | 96.5 |
| Voltage: | 460 | KVA Code: | G |
| Hertz: | 60 | Max KVAR: | 43.5 |
| Amps - FL: | 219.0 | Power Factor: | 89.0 |
| Service Factor: | 1.15 | Bearing - DE: | NU 318 |
| Alt Service Factor: | -- | Bearing - ODE: | 6318ZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 ROLLER BEARING - FOR BELTED LOAD ONLY
 DE BRG 90RU03M, ODE BRG 90BC03JP3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS447XAA2044B S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR
 OR 215 C VT OR 215 C CT OR 215 C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 45-60 HZ, CHP 60-75 HZ.

Additional Information:

4P - T EXTN
 PAINTED FRAME ID & SHAFT,
 FAN COVER INSIDE & ODE E/S OUTSIDE
 700 CU IN - 3.00" NPT WITH DRAIN HOLES
 INPRO SEAL BOTH ENDS
 OIL RESISTANT SLEEVING ON LEADS
 .002" TIR SHAFT RUNOUT
 ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
 REPORT INCLUDED IN C/B
 COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
 APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
 RABBETS AND PLUG THREADS.
 B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL



GROUND PAD
F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 49BD1177A

Marks:

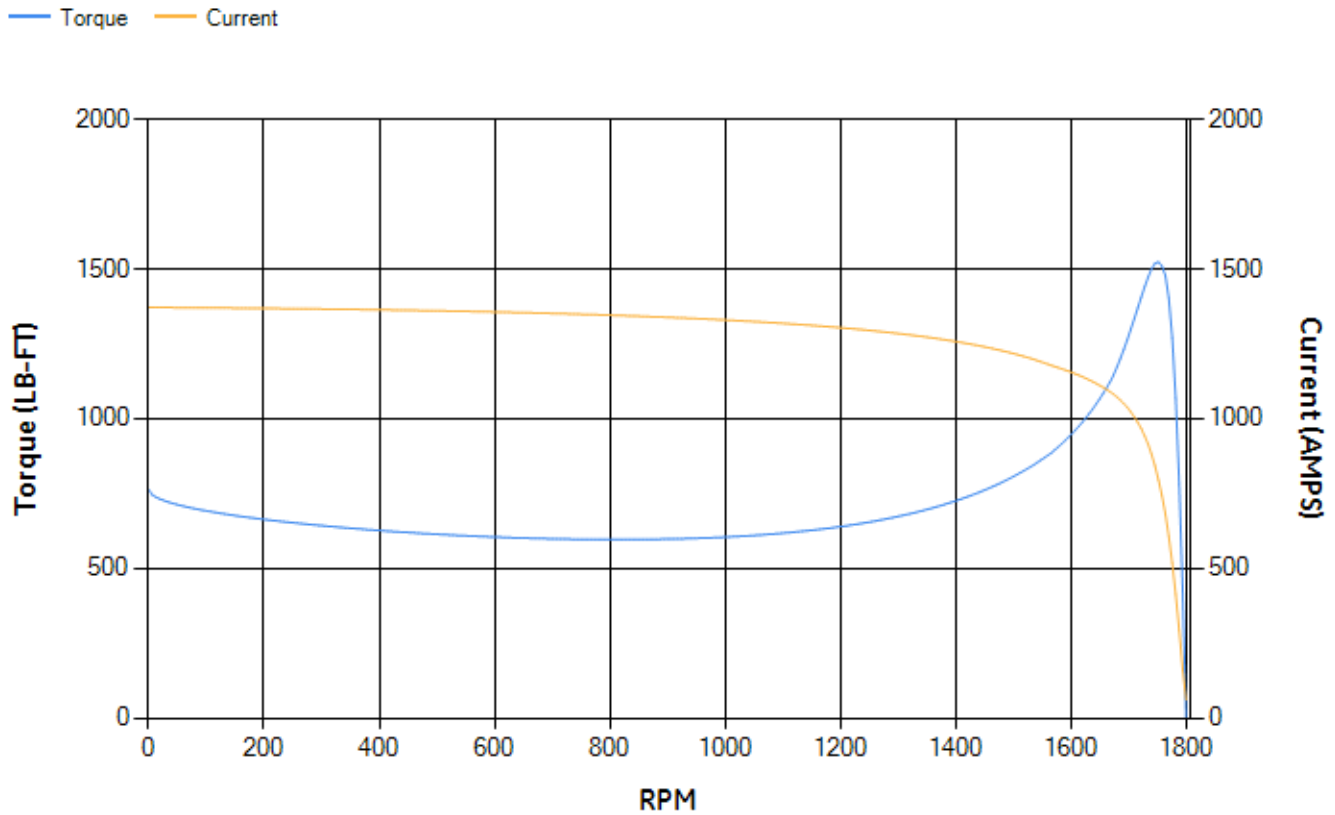
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|--------|--------|--------|--------|-------|-------|-------|
| % EFF | 95.58 | 95.82 | 96.34 | 96.52 | 96.53 | 95.25 | 0.00 |
| % PF | 89.21 | 89.17 | 88.77 | 86.64 | 80.39 | 60.8 | 3.09 |
| AMPS | 274.43 | 251.93 | 218.89 | 167.88 | 120.6 | 80.81 | 60.61 |

| | | | | | |
|--------------------|---------|--------------------|--------|--------------------|--------|
| TORQ(FL)#FT | 586.55 | TORQ(LR)%FL | 130.07 | TORQ(BD)%FL | 259.53 |
| AMPS(LR) | 1371.63 | PF AT START | 0.25 | | |

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4712 Lb-Ft Sq (198.38 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 54 seconds. Safe stall time at 100% voltage is 163 seconds cold, 84 seconds hot. Rotor inertia is 106.11 Lb-Ft Sq (4.47 Kg-meter Sq).

| | | | |
|---------------------------|-------|---------------------------|--------|
| Open Circuit A-C: | 1.751 | Short Circuit D-C: | 0.027 |
| Short Circuit A-C: | 0.07 | X/R Ratio: | 10.252 |
| Stator Slots: | 72 | Rotor Slots: | 58 |

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



| End shield Assembly | | |
|---------------------|---------------|----------------|
| Part Description | DE Side Part# | ODE Side Part# |
| End Shield | 115E4355AA1 | 115E4355LL1 |
| Bearing | 235A2519AA01 | 235A2514AG01 |
| Slinger/Inproseal | 235A4575GS5 | 235A4575GS5 |

| Fan & Fan Cover Assembly | |
|--------------------------|-------------|
| Part Description | Part# |
| Fan | 159C7100AA2 |
| Fan Cover | 128D6841AA1 |

| Conduit & Accessories Box Assembly | |
|------------------------------------|-------------|
| Part Description | Part# |
| Conduit Box | 118D4408DG2 |

| Mechanical Accessories | |
|------------------------|-------|
| Part Description | Part# |
| Brake | |
| Tachometer | |