



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 16, 2021

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

| | |
|----------------------------|-----------------------|
| Model Number: | 5KS445SAA308D8 |
| Catalog Number: | M9135 |
| Instruction Manual: | GEI-56128 |
| Connection Diagram: | GEM2034E-FIG7 |
| Outline Drawing: | 239C6600GX |

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: | 5KS445SAA308D8 | Estimated Weight: | 2040 Lbs |
| Outline Drawing: | 239C6600GX | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG7 | Enclosure: | TEFC |
| Instruction Book: | GEI-56128 | Encl Construction: | 841 |
| Design Code: | 44BD3089A | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 445T | Insulation Class: | H |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 6 | Nominal Efficiency: | 95.0 % |
| Output Power: | 125HP 92.5KW | Guaranteed Efficiency: | 94.5 % |
| RPM: | 1190 | 3/4 Load Efficiency: | -- |
| Voltage: | 460 | KVA Code: | G |
| Hertz: | 60 | Max KVAR: | 42.7 |
| Amps - FL: | 150.0 | Power Factor: | 82.0 |
| Service Factor: | 1.15 | Bearing - DE: | 6318ZC3 |
| Alt Service Factor: | -- | Bearing - ODE: | 6318ZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 90BC03JP3, ODE BRG 90BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS445SAA308D8 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR

SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR

OR 200C VT OR 230C CT OR 200C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0 - 60 HZ, CT 15-60 HZ, CHP 60-90 HZ.



Additional Information:

6P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 44BD3089A

Marks:

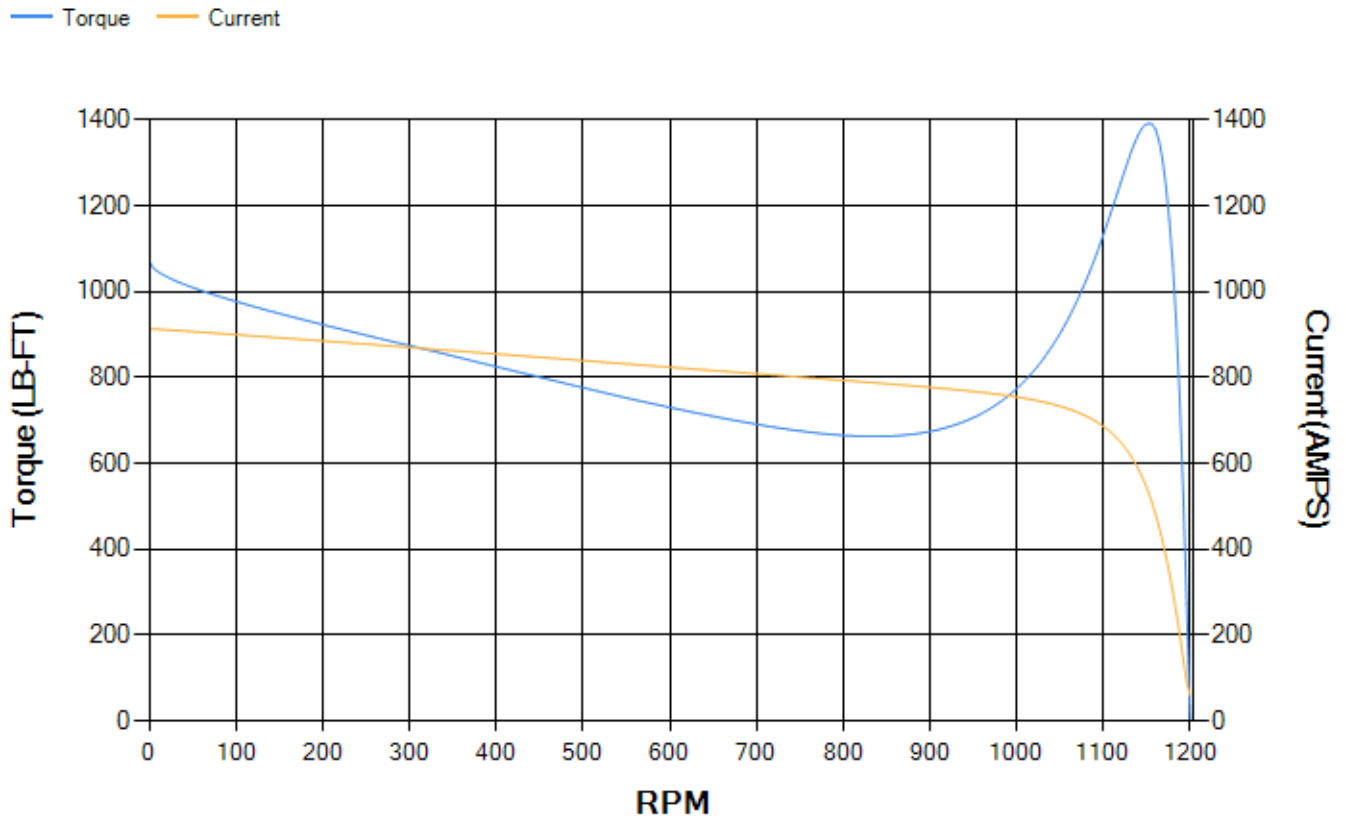
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|--------|--------|--------|--------|-------|-------|-------|
| % EFF | 94.78 | 95.01 | 95.48 | 95.5 | 95.16 | 92.77 | 0.00 |
| % PF | 83.75 | 83.28 | 82.02 | 77.67 | 67.77 | 45.4 | 3.25 |
| AMPS | 184.24 | 170.04 | 149.38 | 118.28 | 90.71 | 69.44 | 59.61 |

TORQ(FL)#FT 550.96 **TORQ(LR)%FL** 194.3 **TORQ(BD)%FL** 252.31
AMPS(LR) 914.26 **PF AT START** 0.35

This motor is capable of two cold or one hot start with a maximum connected load inertia of 6401 Lb-Ft Sq (269.48 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 38 seconds. Safe stall time at 100% voltage is 77 seconds cold, 46 seconds hot. Rotor inertia is 99.88 Lb-Ft Sq (4.2 Kg-meter Sq).

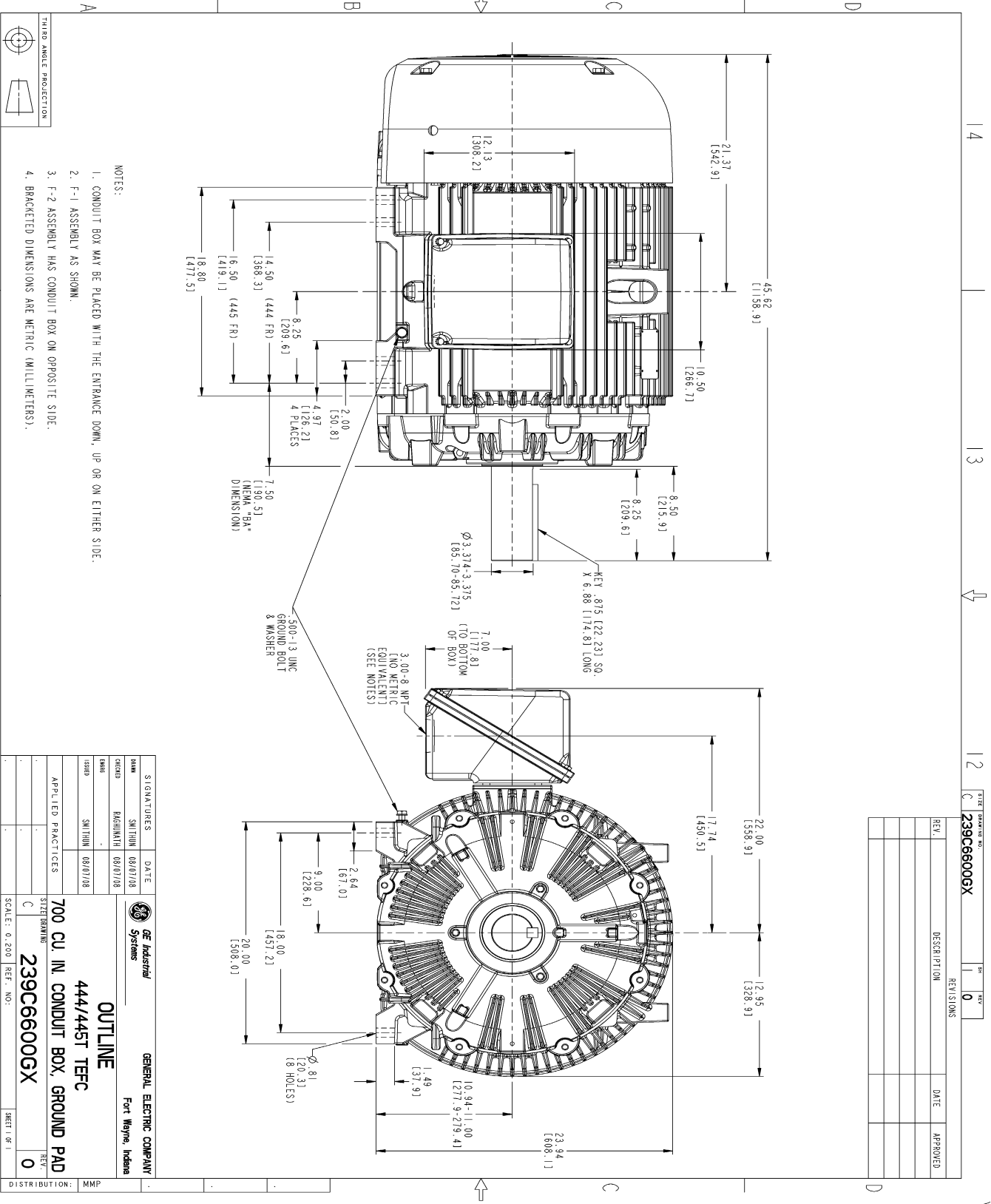
Open Circuit A-C: 0.86 **Short Circuit D-C:** 0.026
Short Circuit A-C: 0.051 **X/R Ratio:** 9.837
Stator Slots: 72 **Rotor Slots:** 58

Speed Torque Current Curve (First Connection, First Speed)



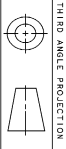
NAME:501291659 OBJECT:239C6600GX DATE:07-Aug-08 17:33:22

Marks:



NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



| SIGNATURES | DATE | GENERAL ELECTRIC COMPANY Fort Wayne, Indiana |
|------------------------------------|----------|---|
| SAW SWIHON 08/01/08 | | |
| CHICO RAGUNATH 08/01/08 | | |
| DAVID SWIHON 08/01/08 | | |
| APPLIED PRACTICES | | |
| 700 CU IN. CONDUIT BOX, GROUND PAD | | |
| 239C6600GX | | |
| SCALE: 0.200 | REF. NO: | |
| DISTRIBUTION: MMP | | |

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



| End shield Assembly | | |
|---------------------|---------------|----------------|
| Part Description | DE Side Part# | ODE Side Part# |
| End Shield | 115E4355AA1 | 115E4355LM1 |
| Bearing | 235A2514AG01 | 235A2514AG01 |
| Slinger/Inproseal | 149C4399G07 | 149C4399G07 |

| Fan & Fan Cover Assembly | |
|--------------------------|-------------|
| Part Description | Part# |
| Fan | 159C7100G03 |
| Fan Cover | 128D6841AA1 |

| Conduit & Accessories Box Assembly | |
|------------------------------------|-------------|
| Part Description | Part# |
| Conduit Box | 118D4408AD2 |

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

