



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

January 18, 2021

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

| | |
|----------------------------|-----------------------|
| Model Number: | 5KS364SAA305D1 |
| Catalog Number: | M9184 |
| Instruction Manual: | GEI-56128 |
| Connection Diagram: | GEM2034E-FIG3 |
| Outline Drawing: | 239C6200GM |

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: | 5KS364SAA305D1 | Estimated Weight: | 980 Lbs |
| Outline Drawing: | 239C6200GM | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG3 | Enclosure: | TEFC |
| Instruction Book: | GEI-56128 | Encl Construction: | 841 |
| Design Code: | 36BD3089A | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 364T | Insulation Class: | H |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 6 | Nominal Efficiency: | 94.1 % |
| Output Power: | 40HP 29.6KW | Guaranteed Efficiency: | 93.6 % |
| RPM: | 1185 | 3/4 Load Efficiency: | -- |
| Voltage: | 230/460 | KVA Code: | G |
| Hertz: | 60 | Max KVAR: | 16.4 |
| Amps - FL: | 99.4/49.7 | Power Factor: | 80.0 |
| Service Factor: | 1.15 | Bearing - DE: | 6314ZC3 |
| Alt Service Factor: | -- | Bearing - ODE: | 6314ZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 70BC03JP30, ODE BRG 70BC03JP30
 EXCEPTION-IEEE-STD-841-2009:DUAL VOLTAGE 230/460
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS364SAA305D1 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 200C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 215C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.



Additional Information:

6P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 346 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: 36BD3089A

Marks:

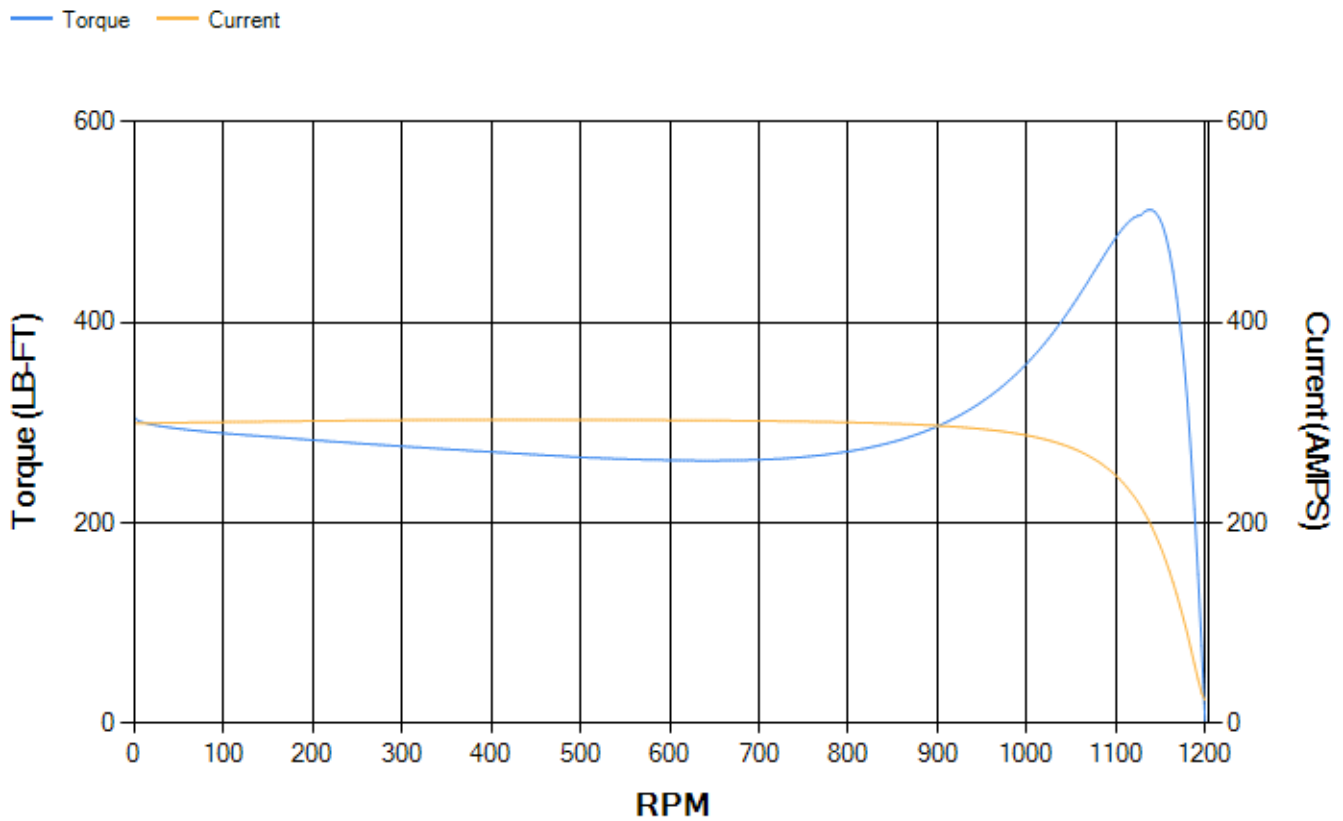
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|
| % EFF | 93.47 | 93.73 | 94.24 | 94.26 | 93.77 | 90.67 | 0.00 |
| % PF | 83.18 | 82.22 | 80.18 | 74.26 | 62.59 | 40.01 | 3.4 |
| AMPS | 60.19 | 55.86 | 49.44 | 40.11 | 31.89 | 25.8 | 22.94 |

| | | | | | |
|--------------------|--------|--------------------|--------|--------------------|--------|
| TORQ(FL)#FT | 176.88 | TORQ(LR)%FL | 172.68 | TORQ(BD)%FL | 286.19 |
| AMPS(LR) | 299.19 | PF AT START | 0.38 | | |

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3453 Lb-Ft Sq (145.37 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 55 seconds. Safe stall time at 100% voltage is 108 seconds cold, 67 seconds hot. Rotor inertia is 18.57 Lb-Ft Sq (0.78 Kg-meter Sq).

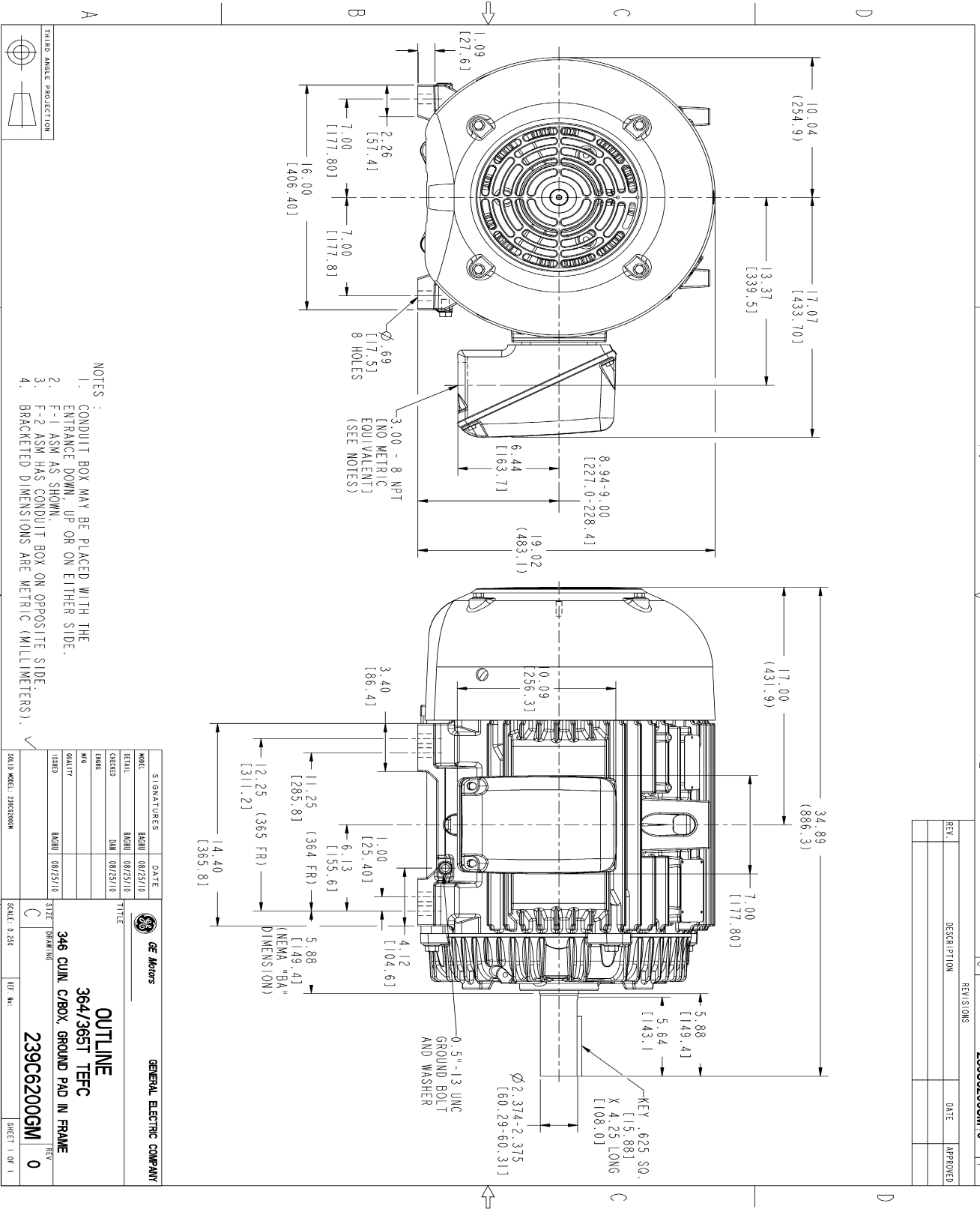
| | | | |
|---------------------------|-------|---------------------------|-------|
| Open Circuit A-C: | 0.497 | Short Circuit D-C: | 0.016 |
| Short Circuit A-C: | 0.029 | X/R Ratio: | 5.934 |
| Stator Slots: | 72 | Rotor Slots: | 58 |

Speed Torque Current Curve (First Connection, First Speed)



NAME:320002276 OBJECT:239C6200GM DATE:26-Aug-10 13:08:26

Marks:



- 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.
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

| | | | |
|--------------------------------------|-------|--------------------------|--|
| SIGNATURES | | DATE | |
| MOELL | RIEHL | 08/25/10 | |
| CHEN | JAN | 08/25/10 | |
| TITLE | | | |
| GE Motors | | GENERAL ELECTRIC COMPANY | |
| OUTLINE | | | |
| 364/365T TEFC | | | |
| 346 CUIN. C/BOX, GROUND PAD IN FRAME | | | |
| 239C6200GM | | | |
| SCALE: 0.250 | | SHEET 1 OF 1 | |

| | | | |
|------|-------------|------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| | | | |

STANDARD NO. 239C6200GM 0

Marks:

Connection Diagram
GEM2034E-FIG3



| End shield Assembly | | |
|---------------------|---------------|----------------|
| Part Description | DE Side Part# | ODE Side Part# |
| End Shield | 115E4250AA1 | 115E4250LK1 |
| Bearing | 235A2516AC01 | 235A2516AC01 |
| Slinger/Inproseal | 149C4399G05 | 149C4399G05 |

| Fan & Fan Cover Assembly | |
|--------------------------|-------------|
| Part Description | Part# |
| Fan | 159C7100G01 |
| Fan Cover | 128D6810AA1 |

| Conduit & Accessories Box Assembly | |
|------------------------------------|-------------|
| Part Description | Part# |
| Conduit Box | 149C4429AA2 |

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

