

Product Information Packet

January 12, 2017

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

| | |
|----------------------------|----------------------|
| Model Number: | 5KFS193XAA207 |
| Catalog Number: | N442 |
| Instruction Manual: | GEI-M1036 |
| Connection Diagram: | GEM2034E-FIG116 |
| Outline Drawing: | 240C1450AA |

| Accessory Connection Diagrams | | | |
|-------------------------------|------|------------------------------|------------|
| Bearing Thermocouple: | None | Heater: | None |
| RTD: | None | Thermistor: | 235A3027VD |
| Thermostat: | None | Winding Thermocouple: | None |
| Bearing RTD: | None | | |

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Marks:

| | | | |
|----------------------------|----------------------|-------------------------------|----------|
| MODEL NUMBER: | 5KFS193XAA207 | Estimated Weight: | 231 Kg |
| Outline Drawing: | 240C1450AA | Duty: | S1 |
| Connection Diagram: | GEM2034E-FIG116 | Enclosure: | TEFC |
| Connection: | DELTA | Encl Construction: | 841 |
| Instruction Book: | GEI-M1036 | Cooling(IC): | 411 |
| Design Code: | 28RD1005H | Protection (IP): | 55 |
| Type: | KFS | Ambient Max (°C): | 40 |
| Frame: | 180L | Alt Ambient Max (°C): | -- |
| Mounting(IM): | B3T | Ambient Min (°C): | -40 |
| Phases: | 3 | Insulation Class: | H |
| Poles: | 4 | IEC Design: | N |
| Output Power: | 22 KW | Nominal Efficiency: | 93.1 % |
| RPM: | 1480 | Guaranteed Efficiency: | 92.1 |
| Voltage: | 400 | Max KVAR: | 9.9 |
| Hertz: | 50 | Power Factor: | 84.5 |
| Amps - FL: | 40.4 | Bearing - DE: | 6310ZC3 |
| Service Factor: | 1.00 | Bearing - ODE: | 6310ZC3 |
| Alt Service Factor: | -- | Vibration: | 1.4 mm/s |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

GREASE: EXXON POLYREX EM
 DE BRG 50BC03XP3 ODE BRG 50BC03XP3
 OVER TEMP PROT 1
 CLASS I, ZONE 2, AEX NA IIC T3
 0.000
 STAMP ON NP249A5499AE AS FOLLOWS:
 EX NA IIC T3 GC IECX CSA.09.0012
 40 DEG C <= TAMB <= +40 DEG C SIRA 11ATEX4118
 MODEL: 5KFS193XAA207 S/N:
 CLASS I, ZONE 2, AEX NA IIC T3
 CLASS I, DIV 2, GROUPS A.B.C.D T3

Additional Information:

4P - 48MM DIA X 110MM LONG EXTN - WYE START DELTA RUN
 FOOT MOUNTED
 137 CONDUIT BOX - GLAND PLATE (2) M40X1.5 - M6 TERM BLOCK CO
 AUX LEADS EXIT WITH MOTOR LEADS
 SPL PAINTED SURFACES: FRAME ID, SHAFT, INSIDE OF
 FAN COVER, AND ODE/SHLD TO PREVENT CORROSION
 ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
 GROUND SCREWS ON FRAME
 SHAFT RUNOUT LIMIT .038 MM TIR
 OIL RESISTANT SLEEVING ON LEADS
 CONDUIT BOX IS ON TOP

Performance Characteristics

1st Winding 1st Connection

Design: 28RD1005H

Marks:

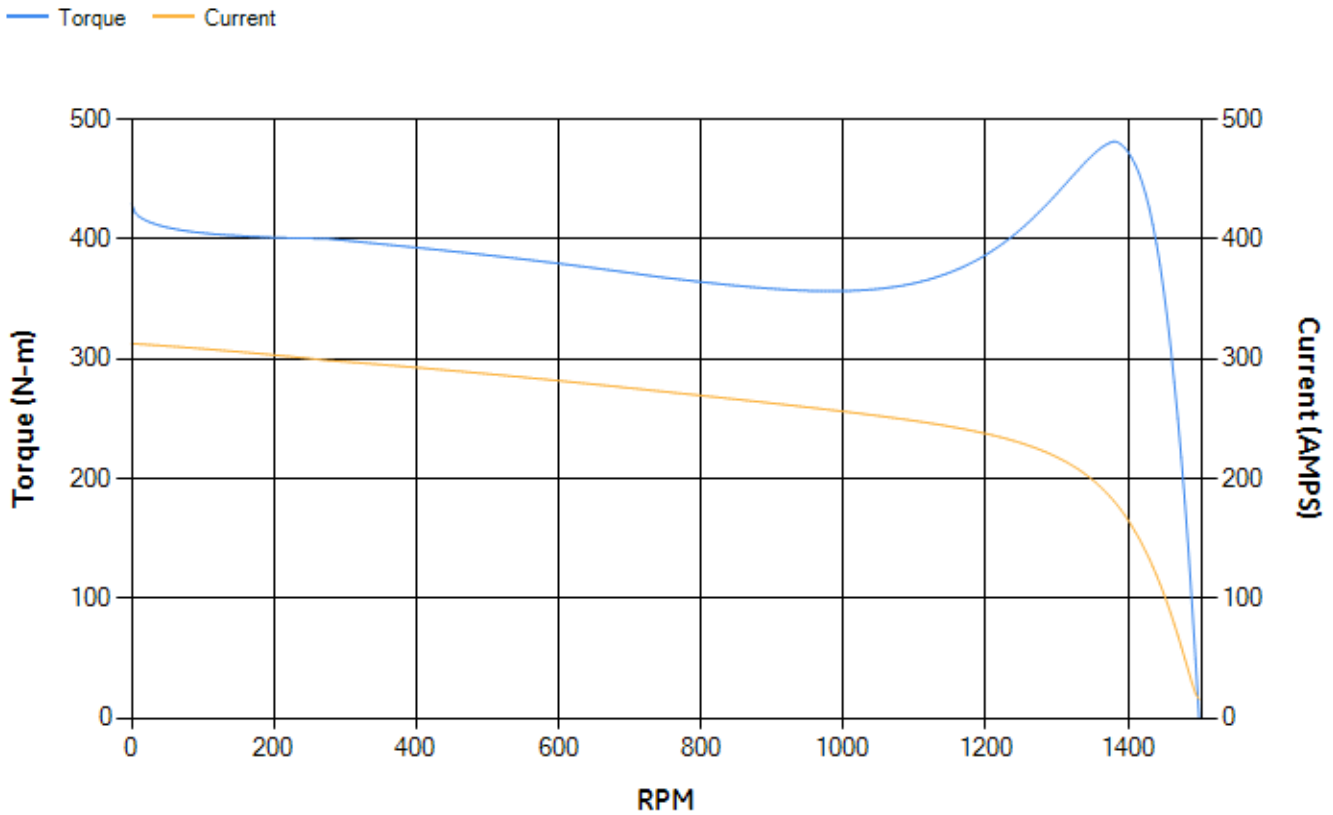
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|-------|
| % EFF | 92.28 | 92.7 | 93.45 | 93.89 | 93.86 | 91.53 | 0.00 |
| % PF | 86.35 | 85.78 | 84.42 | 79.95 | 69.92 | 47.12 | 3.72 |
| AMPS | 49.81 | 45.92 | 40.22 | 31.73 | 24.19 | 18.41 | 15.77 |

| | | | | | |
|--------------------|--------|--------------------|--------|--------------------|--------|
| TORQ(FL)N-m | 141.97 | TORQ(LR)%FL | 302.43 | TORQ(BD)%FL | 337.66 |
| AMPS(LR) | 312.72 | PF AT START | 0.52 | | |

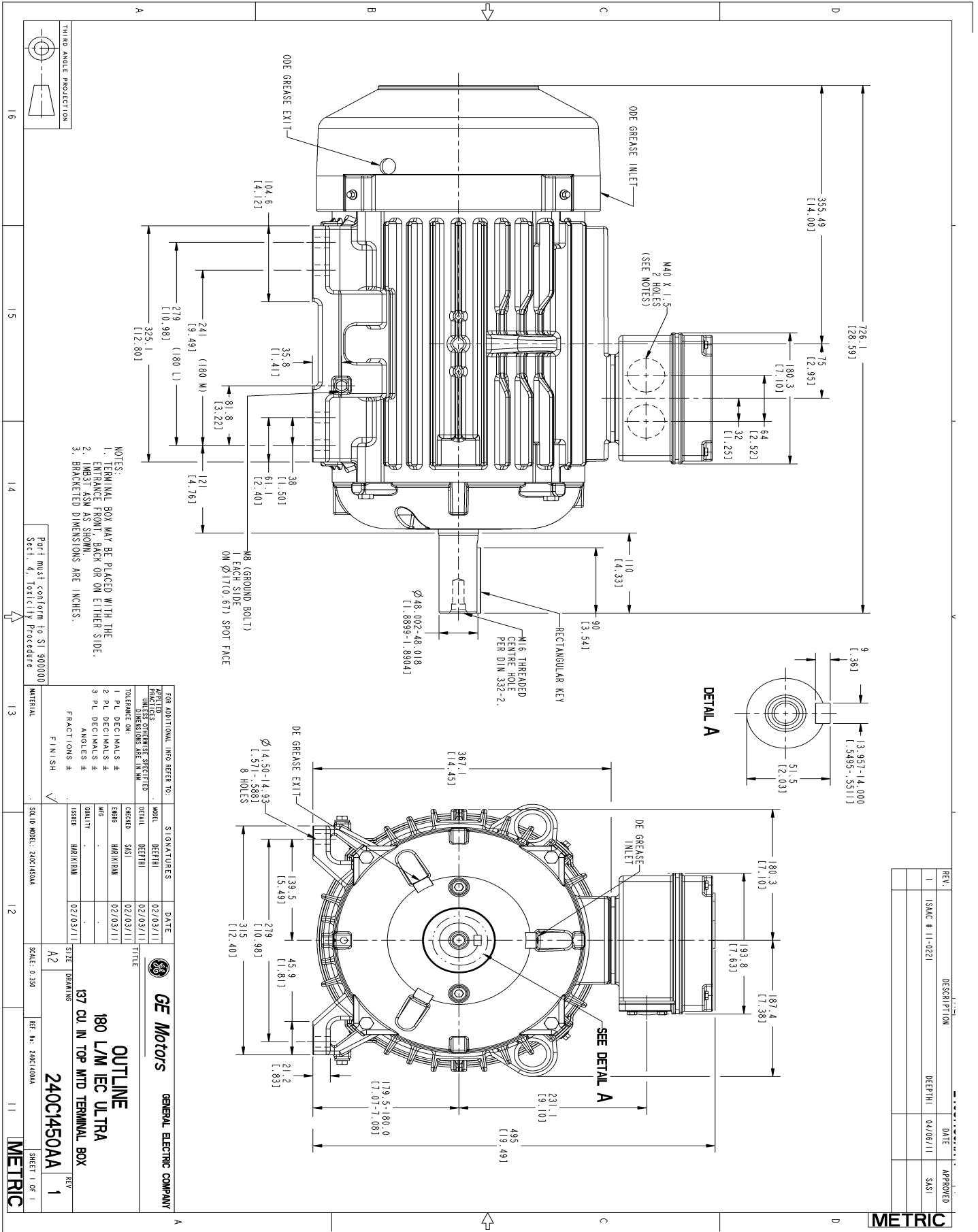
This motor is capable of two cold or one hot start with a maximum connected load inertia of 51.61 Kg-meter Sqat 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 24 seconds. Safe stall time at 100% voltage is 59 seconds cold, 35 seconds hot. Rotor inertia is 0.23 Kg-meter Sq.

| | | | |
|---------------------------|-------|---------------------------|-------|
| Open Circuit A-C: | 0.567 | Short Circuit D-C: | 0.012 |
| Short Circuit A-C: | 0.021 | X/R Ratio: | 3.721 |
| Stator Slots: | 48 | Rotor Slots: | 40 |

Speed Torque Current Curve (First Connection, First Speed)



Marks:



| REV. | DESCRIPTION | DATE | APPROVED |
|------|----------------|----------|----------|
| 1 | ISAC # 11-0221 | 04/08/11 | SASI |

METRIC

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

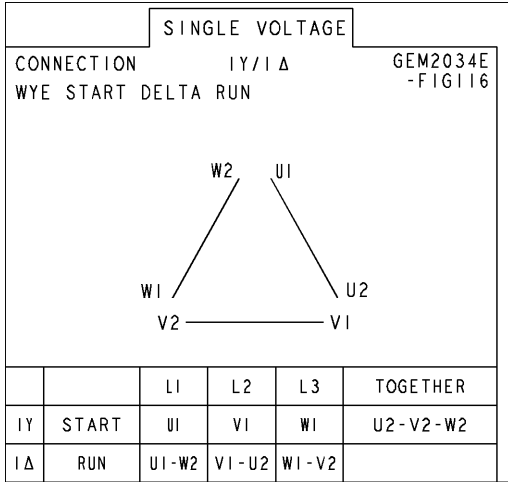
| FOR ADDITIONAL INFO REFER TO: | | SIGNATURES | | DATE | |
|----------------------------------|--------|------------|--------|----------|----------|
| MODEL | DEPTH | MODEL | DEPTH | 02/03/11 | 02/03/11 |
| DETAIL | DETAIL | DETAIL | DETAIL | 02/03/11 | 02/03/11 |
| TOLERANCE ON: FRACTIONS # FINISH | | | | | |
| 1. PL DECIMALS # | | | | | |
| 2. PL DECIMALS # | | | | | |
| 3. PL DECIMALS # | | | | | |
| FRACTIONS # | | | | | |
| FINISH | | | | | |

GE Motors GENERAL ELECTRIC COMPANY
 OUTLINE
 180 L/M IEC ULTRA
 137 CU IN TOP MTD TERMINAL BOX
 240C1450AA
 SCALE: 0.330
 REF. No. 240C1450AA

METRIC

Marks:

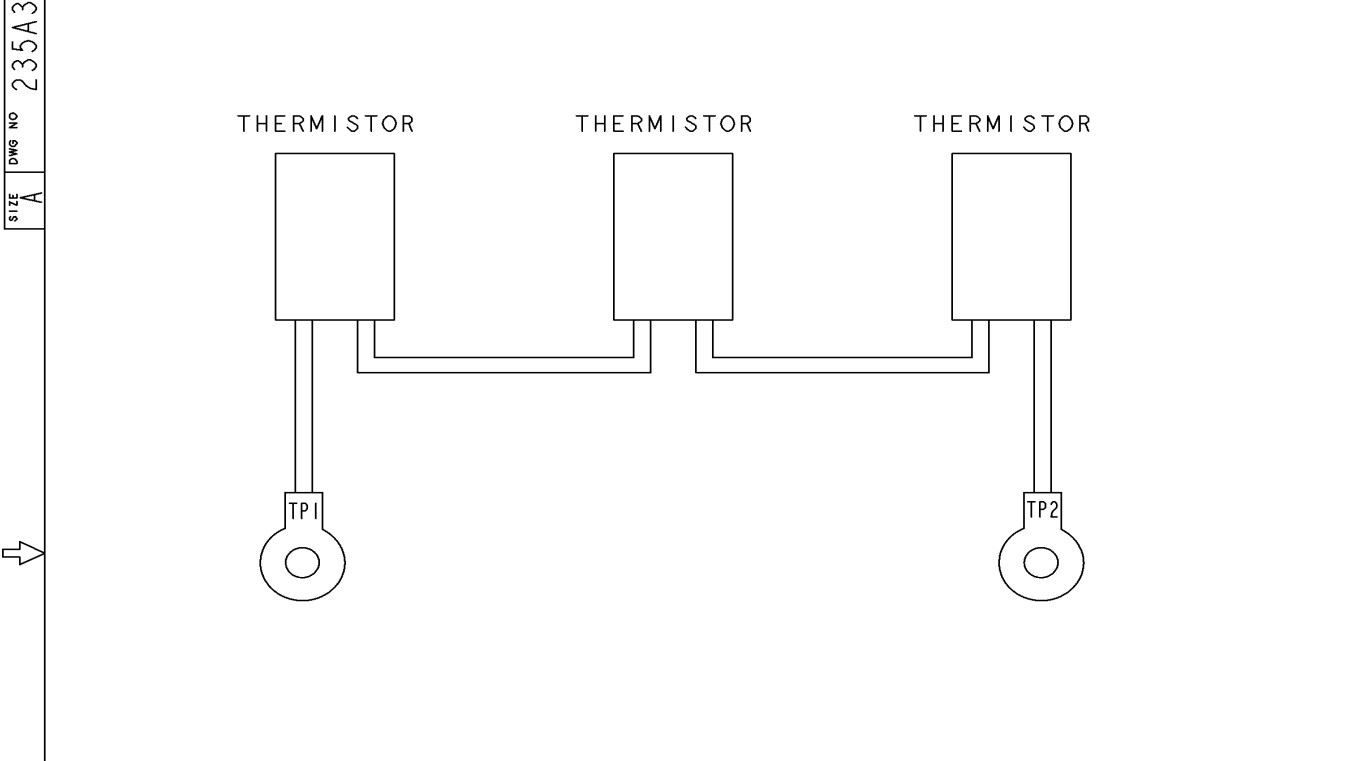
Connection Diagram
GEM2034E-FIG116





| | | | | | |
|----------------|------------------------|-----------|-------------|------|----------|
| SH REV 0 | THIRD ANGLE PROJECTION | REVISIONS | | | |
| | | REV | DESCRIPTION | DATE | APPROVED |

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NOTE:
 THREE THERMISTORS, ONE IN EACH PHASE, ARE CONNECTED IN SERIES.
 TWO LEADS ARE BROUGHT OUT INTO THE MAIN TERMINAL BOX OR AUXILIARY TERMINAL BOX.
 LEADS ARE MARKED WITH TP1 AND TP2.

| | | | | |
|--|-----------------|-----------|---|-------------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± ANGLES ± 1 FRACTIONS ± MATERIAL: APPLIED PRACTICES: | SIGNATURES | DATE | GE Motors Fort Wayne, Indiana | |
| | DRAWN ARPIT | 11/10/09 | | |
| | CHECKED BHASKAR | 11/10/09 | | |
| | ISSUED BHASKAR | 11/10/09 | | |
| CAD NO. F500:235A3027VD | | SIZE A | FSCM NO | DWG NO 235A3027VD |
| | | SCALE 1:1 | SHEET 1 OF 1 | |

