



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

September 14, 2020

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

| | |
|----------------------------|-----------------------|
| Model Number: | 5KS254XAA1076C |
| Catalog Number: | M9551 |
| Instruction Manual: | GEI-56128 |
| Connection Diagram: | GEM2034E-FIG1 |
| Outline Drawing: | 4002B5825PBP5477 |

| 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: | 5KS254XAA1076C | Estimated Weight: | 315 Lbs |
| Outline Drawing: | 4002B5825PBP5477 | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG1 | Enclosure: | TEFC |
| Instruction Book: | GEI-56128 | Encl Construction: | 841 |
| Design Code: | 25BD0090B | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 254TC | Insulation Class: | H |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 2 | Nominal Efficiency: | 91 % |
| Output Power: | 15HP 11.1KW | Guaranteed Efficiency: | 90.2 % |
| RPM: | 3550 | 3/4 Load Efficiency: | -- |
| Voltage: | 575 | KVA Code: | G |
| Hertz: | 60 | Max KVAR: | 2.9 |
| Amps - FL: | 13.9 | Power Factor: | 89.0 |
| Service Factor: | 1.15 | Bearing - DE: | 6310ZC3 |
| Alt Service Factor: | -- | Bearing - ODE: | 6309ZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 50BC03JP30 ODE BRG 45BC03JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS254XAA1076C S/N: XXX

CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C 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 230C 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 3-60HZ, CHP 60-90HZ.



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.25 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
GROUND SCREW ON FRAME
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
SHAFT RUNOUT LIMIT .001" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 25BD0090B

Marks:

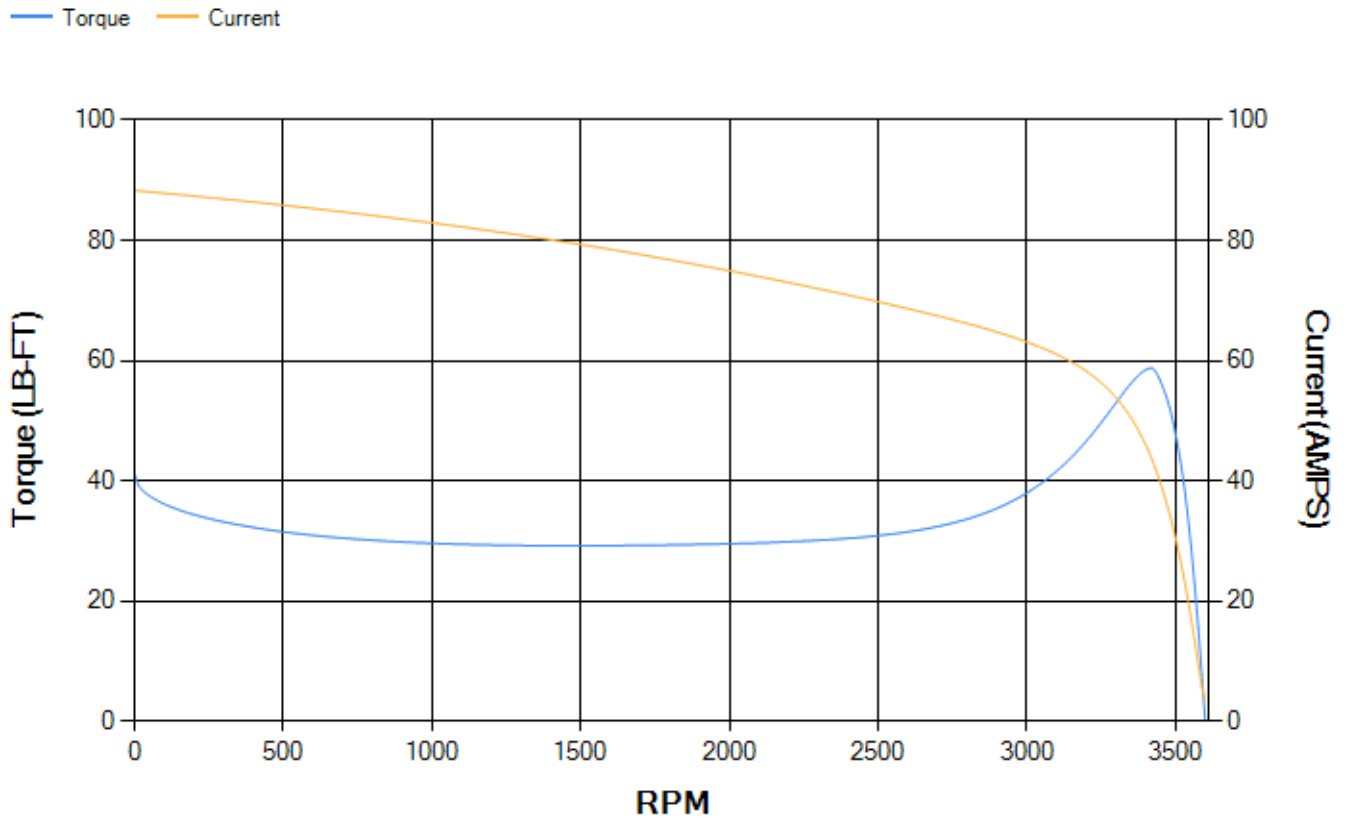
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|------|
| % EFF | 89.4 | 90.07 | 91.09 | 91.77 | 91.65 | 88.37 | 0.00 |
| % PF | 88.59 | 88.95 | 89.11 | 87.97 | 83.27 | 66.77 | 9.37 |
| AMPS | 17.73 | 16.12 | 13.84 | 10.43 | 7.36 | 4.76 | 3.31 |

| | | | | | |
|--------------------|-------|--------------------|--------|--------------------|-------|
| TORQ(FL)#FT | 22.19 | TORQ(LR)%FL | 185.01 | TORQ(BD)%FL | 263.7 |
| AMPS(LR) | 88.31 | PF AT START | 0.3 | | |

This motor is capable of two cold or one hot start with a maximum connected load inertia of 100 Lb-Ft Sq (4.21 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 45 seconds. Safe stall time at 100% voltage is 93 seconds cold, 59 seconds hot. Rotor inertia is 1.04 Lb-Ft Sq (0.04 Kg-meter Sq).

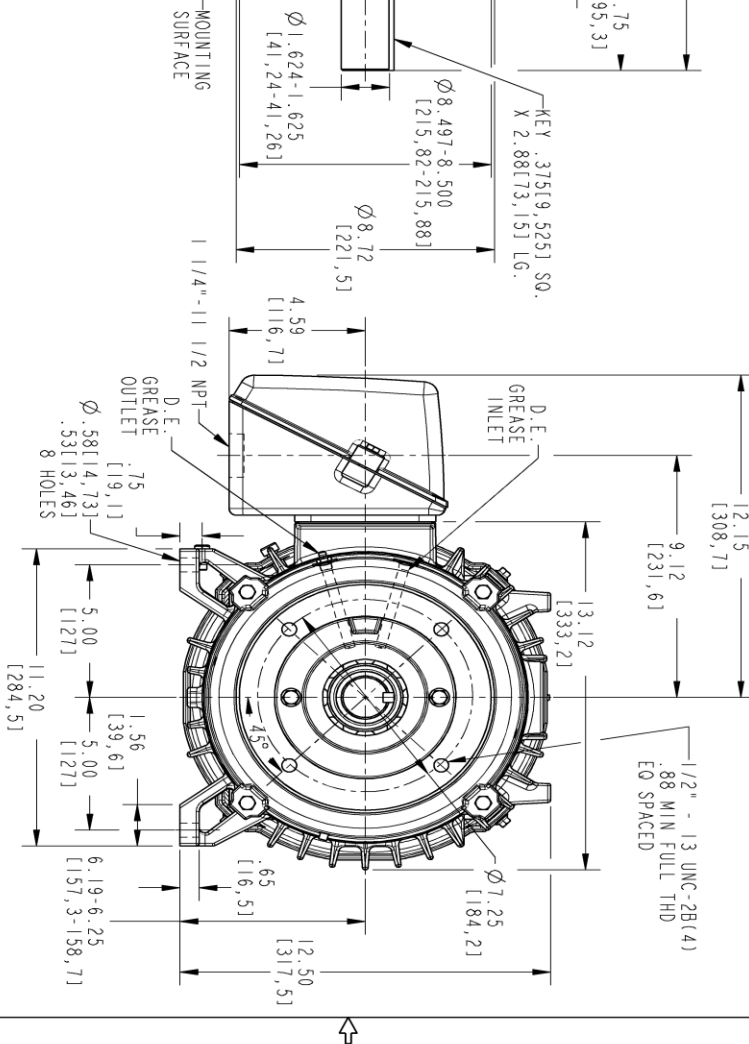
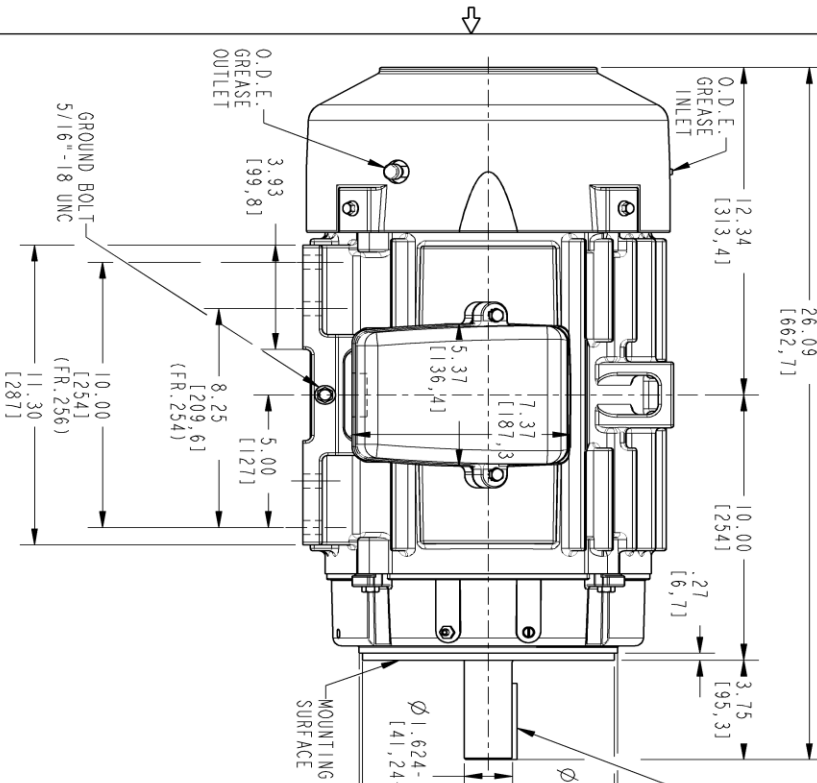
| | | | |
|---------------------------|-------|---------------------------|-------|
| Open Circuit A-C: | 0.827 | Short Circuit D-C: | 0.012 |
| Short Circuit A-C: | 0.031 | X/R Ratio: | 4.632 |
| Stator Slots: | 36 | Rotor Slots: | 26 |

Speed Torque Current Curve (First Connection, First Speed)



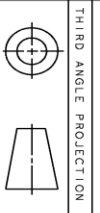
Marks:

- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T. I. R.
- NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T. I. R.
- NOTE 5: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE
- NOTE 6: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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| REV. | DESCRIPTION | DATE | APPROVED |
|------|----------------|----------|-----------|
| 1 | ISAAC# 18-0869 | 11/05/18 | PRASHANTH |
| 2 | ISAAC# 18-1086 | 12/26/18 | KARTHIK |



| SIGNATURES | DATE | TITLE |
|------------|------------|-------------------------|
| LAKMIKANTH | 03/03/2017 | INDUCTION MOTOR OUTLINE |
| LAKMIKANTH | 03/03/2017 | INDUCTION MOTOR OUTLINE |
| PYUSH | 03/03/2017 | INDUCTION MOTOR OUTLINE |
| PYUSH | 03/03/2017 | INDUCTION MOTOR OUTLINE |
| LAKMIKANTH | 03/03/2017 | INDUCTION MOTOR OUTLINE |

GE INDUSTRIAL MOTORS
 a Wolog company

IEEE941 SPEC. "C" FACE AT DRIVE END (850° HUBBET)
 137 CUIN. FR. 254/256TC TFFC

4002B5825PBP5477

SCALE: 0.250 REF. No.: 4002B5825PBP5301

| SIZE | DRAWING NO. | REV | SHEET |
|------|------------------|-----|-------|
| B | 4002B5825PBP5477 | 002 | 1 |

Marks:

Connection Diagram
GEM2034E-FIG1



| End shield Assembly | | |
|---------------------|---------------|----------------|
| Part Description | DE Side Part# | ODE Side Part# |
| End Shield | 128D6106RF1 | 4004D5283SE1 |
| Bearing | 235A2508EC01 | 235A2507EB01 |
| Slinger/Inproseal | 4002B5914GF4 | 4002B5914AG4 |

| Fan & Fan Cover Assembly | |
|--------------------------|--------------|
| Part Description | Part# |
| Fan | 159C6704G02 |
| Fan Cover | 4003C5788PA1 |

| Conduit & Accessories Box Assembly | |
|------------------------------------|-----------------|
| Part Description | Part# |
| Conduit Box | 4002B5728PA-G04 |

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

