



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 24, 2020

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

| | |
|----------------------------|-----------------------|
| Model Number: | 5KS182XAA300D1 |
| Catalog Number: | M8926 |
| Instruction Manual: | GEI-56128 |
| Connection Diagram: | GEM2034E-FIG1 |
| Outline Drawing: | 4002B5818PBP5311 |

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: | 5KS182XAA300D1 | Estimated Weight: | 76 Lbs |
| Outline Drawing: | 4002B5818PBP5311 | Time Rating: | CONT |
| Connection Diagram: | GEM2034E-FIG1 | Enclosure: | TEFC |
| Instruction Book: | GEI-56128 | Encl Construction: | 841 |
| Design Code: | 18BD3001A | Ambient Max(°C): | 40 |
| Type: | KS | Alt Ambient Max(°C): | -- |
| Frame: | 182TC | Insulation Class: | H |
| Phases: | 3 | NEMA Design: | B |
| Poles: | 6 | Nominal Efficiency: | 87.5 % |
| Output Power: | 1.5HP 1.1KW | Guaranteed Efficiency: | 86.5 % |
| RPM: | 1170 | 3/4 Load Efficiency: | 88.2 % |
| Voltage: | 460 | KVA Code: | M |
| Hertz: | 60 | Max KVAR: | 1.0 |
| Amps - FL: | 2.4 | Power Factor: | 68.0 |
| Service Factor: | 1.15 | Bearing - DE: | 6307ZC3 |
| Alt Service Factor: | -- | Bearing - ODE: | 6206ZC3 |

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 35BC03JP30 ODE BRG 30BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS182XAA300D1 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 200C AT 1.15SF ON SINE-WAVE PWR
 OR 200 C VT OR 200 C CT OR 200 C 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
STANDARD FLOOR MOUNT
C/BOX 55 CU IN-1.00 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
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: 18BD3001A

Marks:

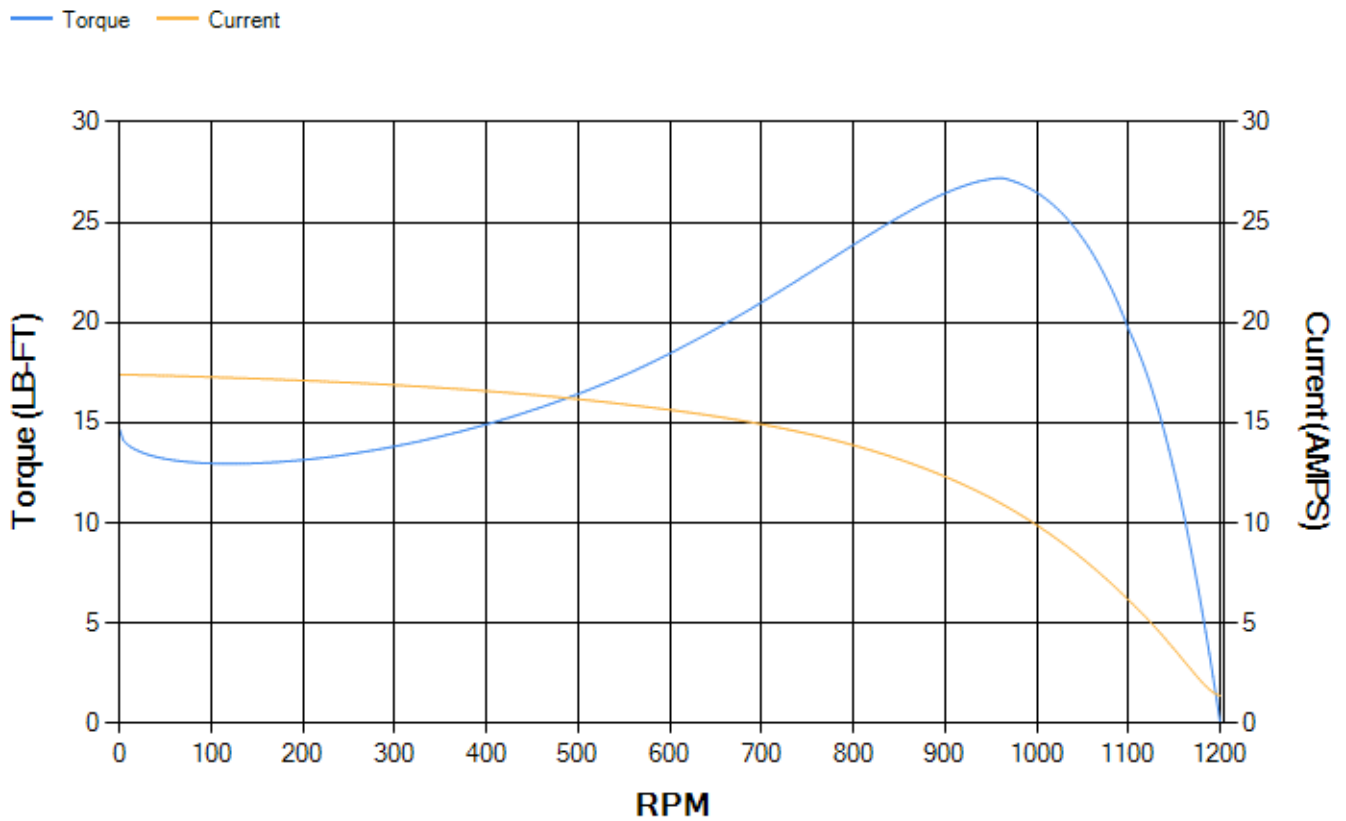
| LOAD % | 125.0 | 115.0 | 100.0 | 75.0 | 50.0 | 25.0 | 0.0 |
|--------|-------|-------|-------|-------|-------|-------|------|
| % EFF | 87.54 | 87.89 | 88.44 | 88.19 | 86.52 | 79.52 | 0.00 |
| % PF | 73.61 | 71.71 | 69.9 | 59.67 | 46.87 | 28.66 | 5.86 |
| AMPS | 2.72 | 2.56 | 2.27 | 2 | 1.73 | 1.54 | 1.37 |

| | | | | | |
|--------------------|-------|--------------------|--------|--------------------|--------|
| TORQ(FL)#FT | 6.72 | TORQ(LR)%FL | 218.45 | TORQ(BD)%FL | 396.11 |
| AMPS(LR) | 17.41 | PF AT START | 0.46 | | |

This motor is capable of two cold or one hot start with a maximum connected load inertia of 260 Lb-Ft Sq (10.95 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 63 seconds. Safe stall time at 100% voltage is 139 seconds cold, 117 seconds hot. Rotor inertia is 0.34 Lb-Ft Sq (0.01 Kg-meter Sq).

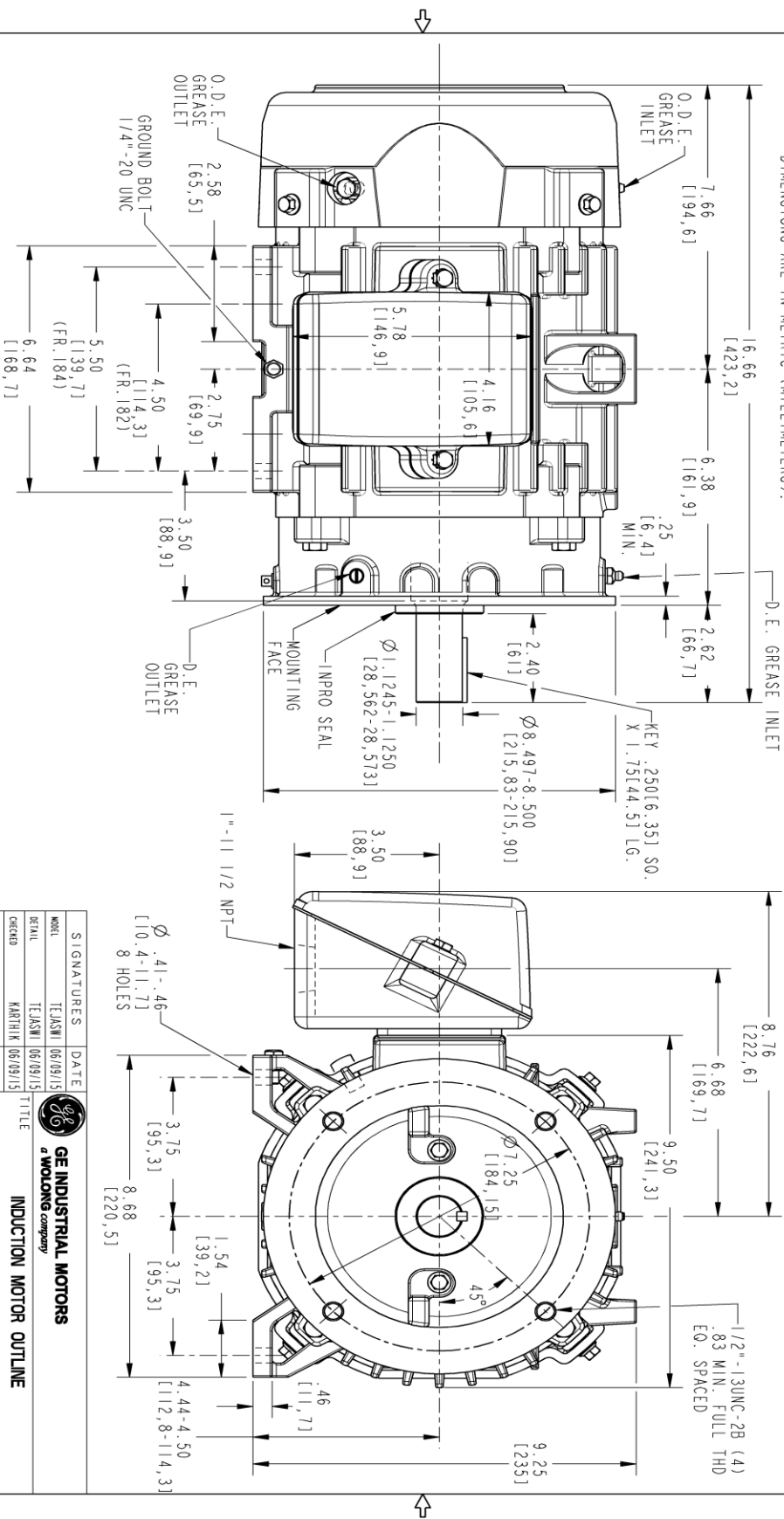
| | | | |
|---------------------------|-------|---------------------------|-------|
| Open Circuit A-C: | 0.162 | Short Circuit D-C: | 0.008 |
| Short Circuit A-C: | 0.011 | X/R Ratio: | 3.204 |
| Stator Slots: | 36 | Rotor Slots: | 48 |

Speed Torque Current Curve (First Connection, First Speed)



Marks:

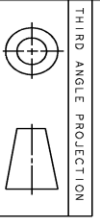
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP OR DOWN.
 NOTE 2: F1 ASSEMBLY AS SHOWN, F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
 NOTE 5: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



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| REV. | DESCRIPTION | DATE | APPROVED |
|------|---------------|------------------|-----------|
| 1 | ISAC# 18-0869 | SREDEV1 10/26/18 | PRASHANTH |

| SIZE | DRAWING NO. | REV | SHEET |
|------|-----------------|-----|-------|
| B | 4002B5818BP5311 | 001 | 1 |



THIRD ANGLE PROJECTION

| SIGNATURES | DATE | TITLE |
|------------|----------|-------------------------|
| TEJASNI | 06/09/15 | INDUCTION MOTOR OUTLINE |
| TEJASNI | 06/09/15 | |
| KARTHIK | 06/09/15 | |
| VENKAT | 06/09/15 | |

GE INDUSTRIAL MOTORS
 a Wolog company

IEEE-841 SPEC, "C" FACE AT DE (185° RABBIT)
 FR182/184 TC TERC

SCALE: 0.400 REF. No.: 4002B5818BP5301

| ISSUED | SIZE | DRAWING | REV |
|--------|-----------------|---------|-----|
| B | 4002B5818BP5311 | 001 | 1 |

Marks:

Connection Diagram
GEM2034E-FIG1



| End shield Assembly | | |
|---------------------|---------------|----------------|
| Part Description | DE Side Part# | ODE Side Part# |
| End Shield | 4004D5286PE1 | 4004D5281SG1 |
| Bearing | 235A2501AE01 | 235A2502AM01 |
| Slinger/Inproseal | 316A5384AJ1 | 4002B5914AG2 |

| Fan & Fan Cover Assembly | |
|--------------------------|-----------------|
| Part Description | Part# |
| Fan | 4001A5914AM-G01 |
| Fan Cover | 4003C5786PA1 |

| Conduit & Accessories Box Assembly | |
|------------------------------------|-----------------|
| Part Description | Part# |
| Conduit Box | 4002B5721PA-G01 |

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

