



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

April 1, 2021

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

<b>Model Number:</b>	<b>5KS182SAA300D1</b>
<b>Catalog Number:</b>	<b>M9946</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5818PBP5311

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

**MODEL NUMBER:** 5KS182SAA300D1  
**Outline Drawing:** 4002B5818PBP5311  
**Connection Diagram:** GEM2034E-FIG1  
**Instruction Book:** GEI-56128  
**Design Code:** 18BD3001A  
**Type:** KS  
**Frame:** 182TC  
**Phases:** 3  
**Poles:** 6  
**Output Power:** 1.5HP 1.1KW  
**RPM:** 1170  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 2.4  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 76 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** 841  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** --  
**Insulation Class:** H  
**NEMA Design:** B  
**Nominal Efficiency:** 87.5 %  
**Guaranteed Efficiency:** 86.5 %  
**3/4 Load Efficiency:** --  
**KVA Code:** M  
**Max KVAR:** 1.0  
**Power Factor:** 68.0  
**Bearing - DE:** 6307ZC3  
**Bearing - ODE:** 6206ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 35BC03JP30 ODE BRG 30BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS182SAA300D1 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 200C VT OR 200C 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  
STANDARD FLOOR MOUNT  
C/BOX 55 CU IN-1.00 NPT  
F1 CONDUIT BOX MOUNTING  
"C" FACE AT DE ENDSHIELD AK=8 1/2"  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX  
INPRO SEAL DE / SLINGER ODE  
GROUND SCREW ON FRAME  
SHAFT RUNOUT LIMIT .001" TIR  
OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 18BD3001A**

**Marks:**

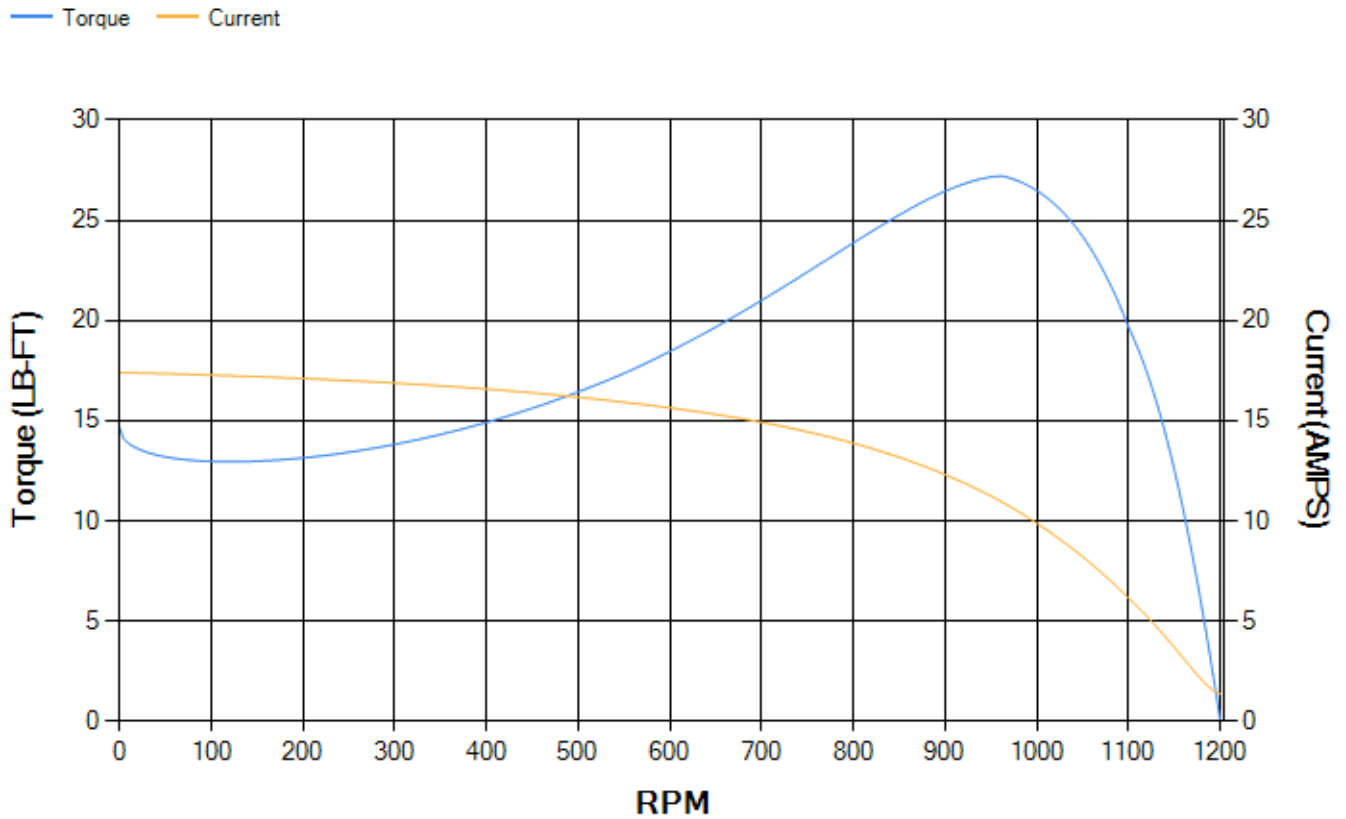
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.54	87.89	88.44	88.19	86.52	79.52	0.00
% PF	73.61	71.71	69.9	59.67	46.87	28.66	5.86
AMPS	2.72	2.56	2.27	2	1.73	1.54	1.37

<b>TORQ(FL)#FT</b>	6.72	<b>TORQ(LR)%FL</b>	218.45	<b>TORQ(BD)%FL</b>	396.11
<b>AMPS(LR)</b>	17.41	<b>PF AT START</b>	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).

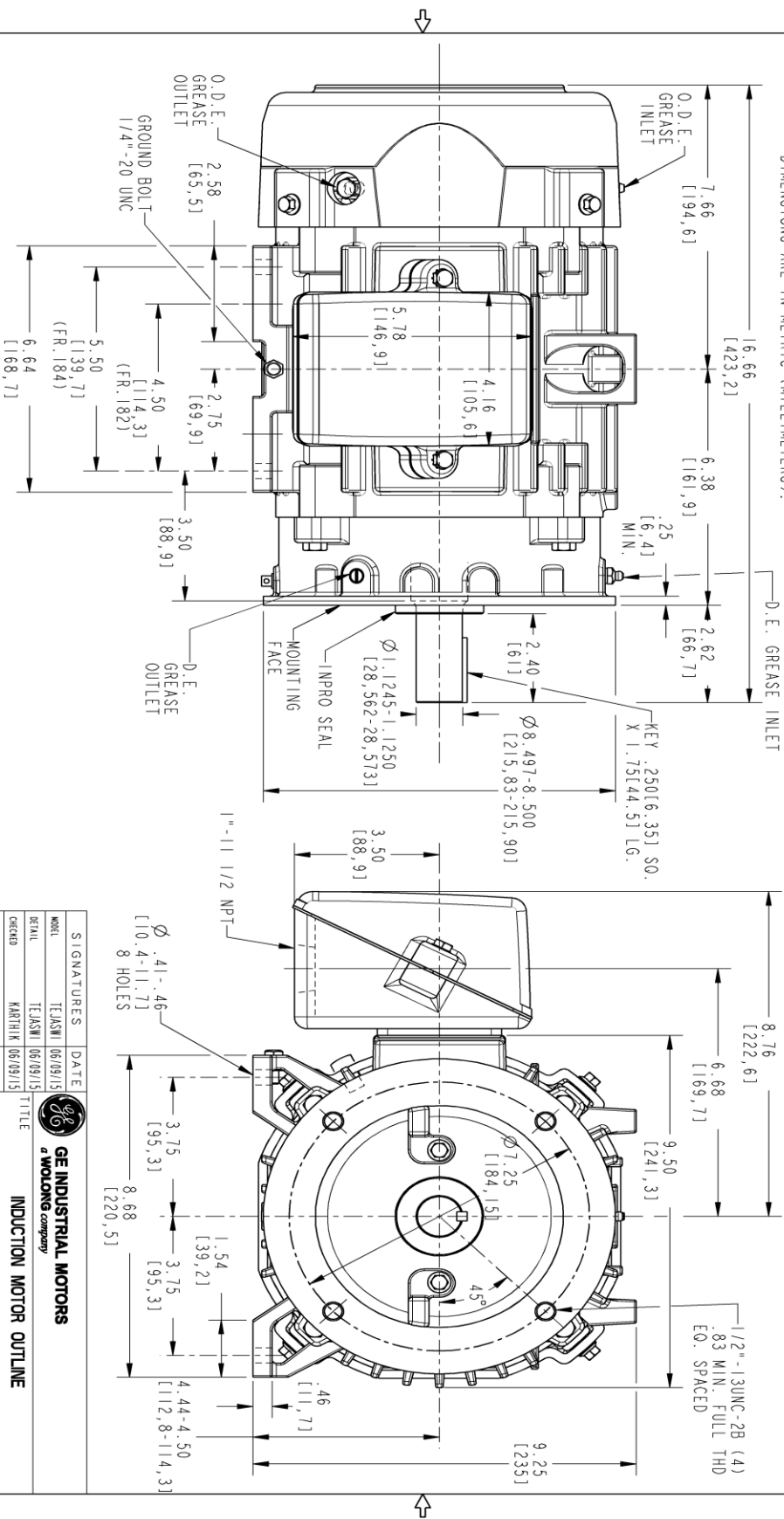
<b>Open Circuit A-C:</b>	0.162	<b>Short Circuit D-C:</b>	0.008
<b>Short Circuit A-C:</b>	0.011	<b>X/R Ratio:</b>	3.204
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	48

**Speed Torque Current Curve (First Connection, First Speed)**



Marks:

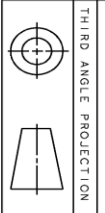
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP OR DOWN.  
 NOTE 2: F1 ASSEMBLY AS SHOWN, F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.  
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.  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



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

SIZE	DRAWING NO.	REV	SHEET
B	4002B5818BP5311	001	1



SIGNATURES	DATE	TITLE
TEJASNI	06/09/15	INDUCTION MOTOR OUTLINE
TEJASNI	06/09/15	
KARTHIK	06/09/15	
VENKAT	06/09/15	
TEJASNI	06/09/15	SIZE/DRAWING
TEJASNI	06/09/15	FR82/84 TC TERC

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IEEE-841 SPEC, "C" FACE AT DE (185° RABBIT)

FR82/84 TC TERC

MODEL	SCALE	REF. NO.	SHEET
4002B5818BP5311	0.400	4002B5818BP5301	1 of 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	149C4399G16

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	

