



**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>5KS182SAA100D1</b>
<b>Catalog Number:</b>	<b>M9945</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:

<b>MODEL NUMBER:</b>	<b>5KS182SAA100D1</b>	<b>Estimated Weight:</b>	76 Lbs
<b>Outline Drawing:</b>	4002B5818PBP5311	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	18BD0104A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	182TC	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	86.5 %
<b>Output Power:</b>	3HP 2.2KW	<b>Guaranteed Efficiency:</b>	85.5 %
<b>RPM:</b>	3530	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	K
<b>Hertz:</b>	60	<b>Max KVAR:</b>	1.1
<b>Amps - FL:</b>	4.0	<b>Power Factor:</b>	81.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6307ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	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:5KS182SAA100D1 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:**

2P - 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: 18BD0104A**

**Marks:**

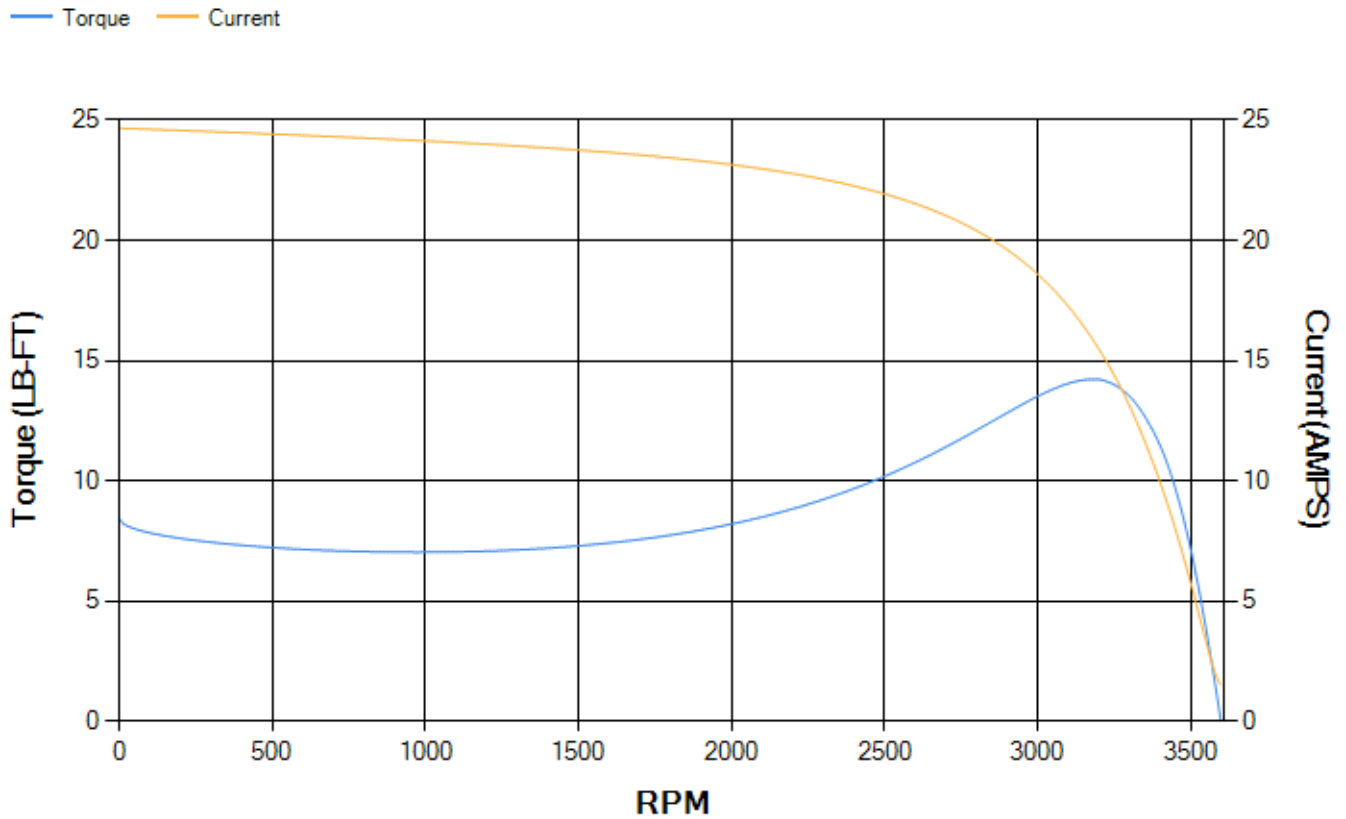
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.03	87.29	87.68	87.06	84.8	76.61	0.00
% PF	84.04	83.25	85.06	76.32	65.97	45.64	12.9
AMPS	4.8	4.44	3.76	3.17	2.51	2.01	1.51

<b>TORQ(FL)#FT</b>	4.46	<b>TORQ(LR)%FL</b>	188.79	<b>TORQ(BD)%FL</b>	316.45
<b>AMPS(LR)</b>	24.67	<b>PF AT START</b>	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 38 Lb-Ft Sq (1.6 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 60 seconds. Safe stall time at 100% voltage is 117 seconds cold, 97 seconds hot. Rotor inertia is 0.12 Lb-Ft Sq (0.01 Kg-meter Sq).

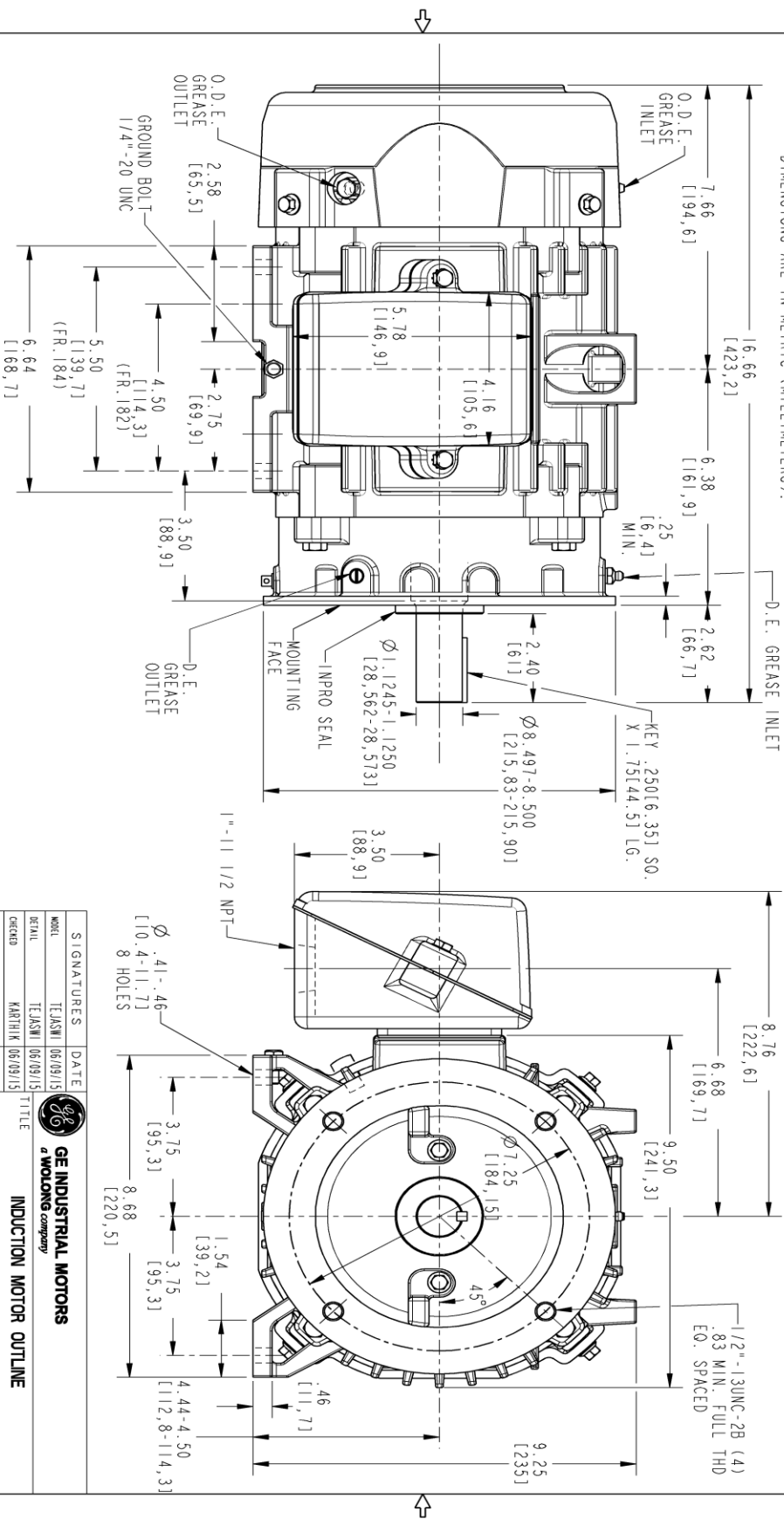
<b>Open Circuit A-C:</b>	0.324	<b>Short Circuit D-C:</b>	0.01
<b>Short Circuit A-C:</b>	0.018	<b>X/R Ratio:</b>	3.957
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

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



Marks:

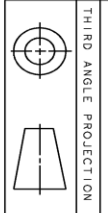
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP OR DOWN.  
 NOTE 2: F1 ASSEMBLY AS SHOWN, F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.  
 NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.  
 NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.  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



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

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

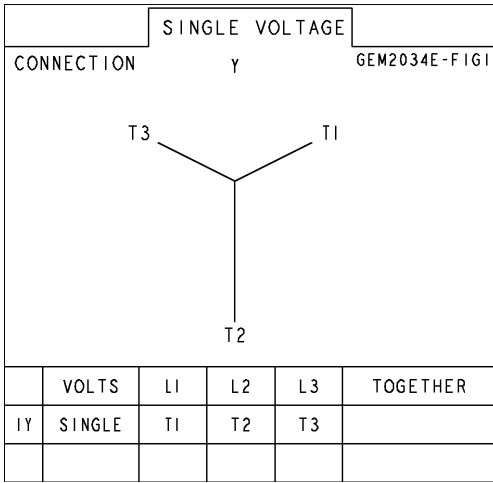
4002B5818BP5311

SCALE: 0.400 REF. No.: 4002B5818BP5301

ISSUED	SIZE	DRAWING	REV
B			001

**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	

