



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

# Product Technical Information

April 30, 2021

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

<b>Model Number:</b>	<b>5KS254SAA200D2</b>
<b>Catalog Number:</b>	<b>M9893</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	4002B5825PBP5926

## 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		

## Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

**MODEL NUMBER:** 5KS254SAA200D2  
**Outline Drawing:** 4002B5825PBP5926  
**Connection Diagram:** GEM2034E-FIG7  
**Instruction Book:** GEI-56128  
**Design Code:** 25BD1162A  
**Type:** KS  
**Frame:** 254TC  
**Phases:** 3  
**Poles:** 4  
**Output Power:** 15HP 11.1KW  
**RPM:** 1775  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 18.9  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 315 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:** 92.4 %  
**Guaranteed Efficiency:** 91.7 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 6.1  
**Power Factor:** 80.5  
**Bearing - DE:** 6310ZC3  
**Bearing - ODE:** 6309ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 50BC03JP30 ODE BRG 45BC03JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS254SAA200D2 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:**

4P - 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  
GROUND SCREW ON FRAME  
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE  
SHAFT RUNOUT LIMIT .001" TIR  
OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 25BD1162A**

**Marks:**

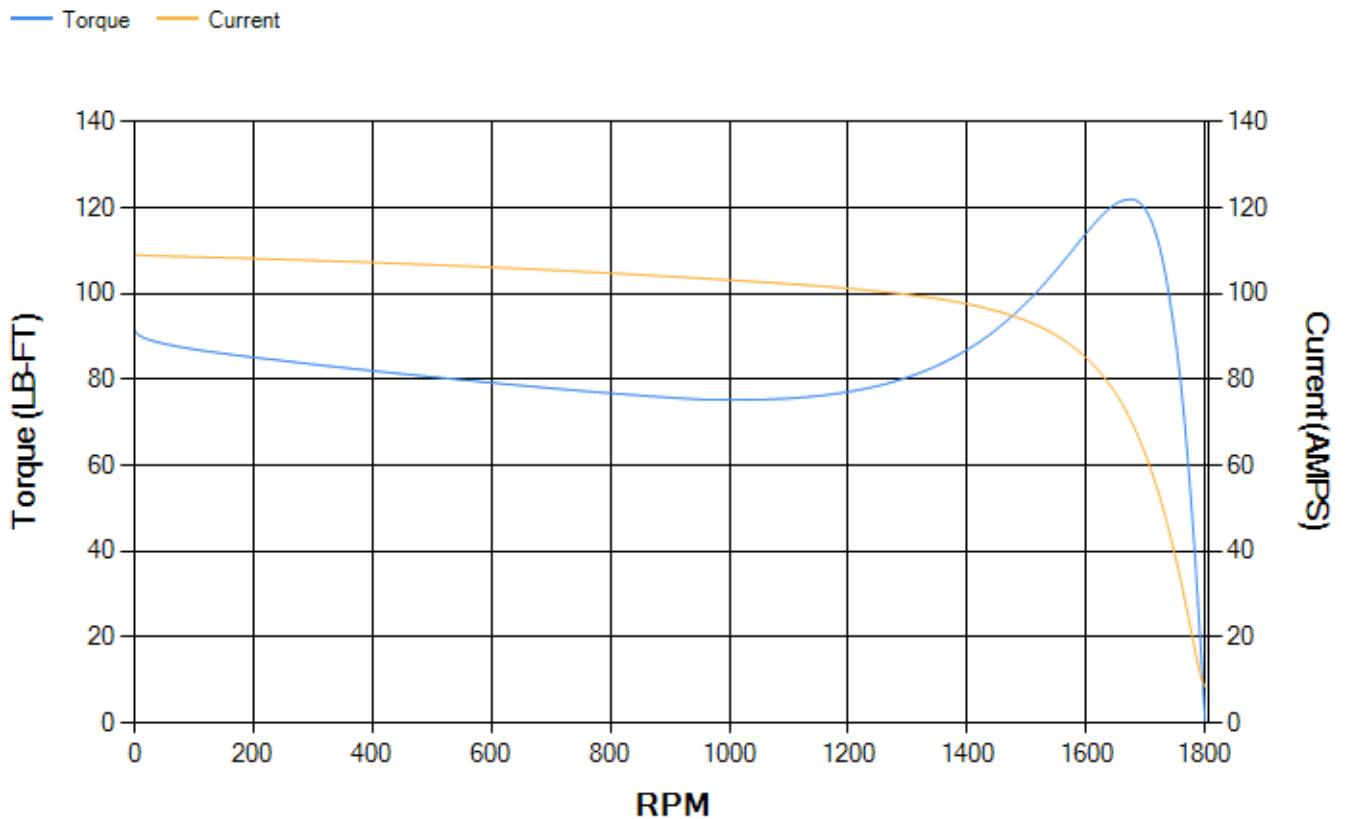
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.42	91.81	92.48	92.68	92.17	88.49	0.00
% PF	83.36	82.54	80.7	75.12	63.77	41.34	4.49
AMPS	23.03	21.3	18.81	15.12	11.94	9.6	8.55

<b>TORQ(FL)#FT</b>	44.38	<b>TORQ(LR)%FL</b>	206.19	<b>TORQ(BD)%FL</b>	273.88
<b>AMPS(LR)</b>	109.14	<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 457 Lb-Ft Sq (19.24 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 38 seconds. Safe stall time at 100% voltage is 85 seconds cold, 54 seconds hot. Rotor inertia is 1.97 Lb-Ft Sq (0.08 Kg-meter Sq).

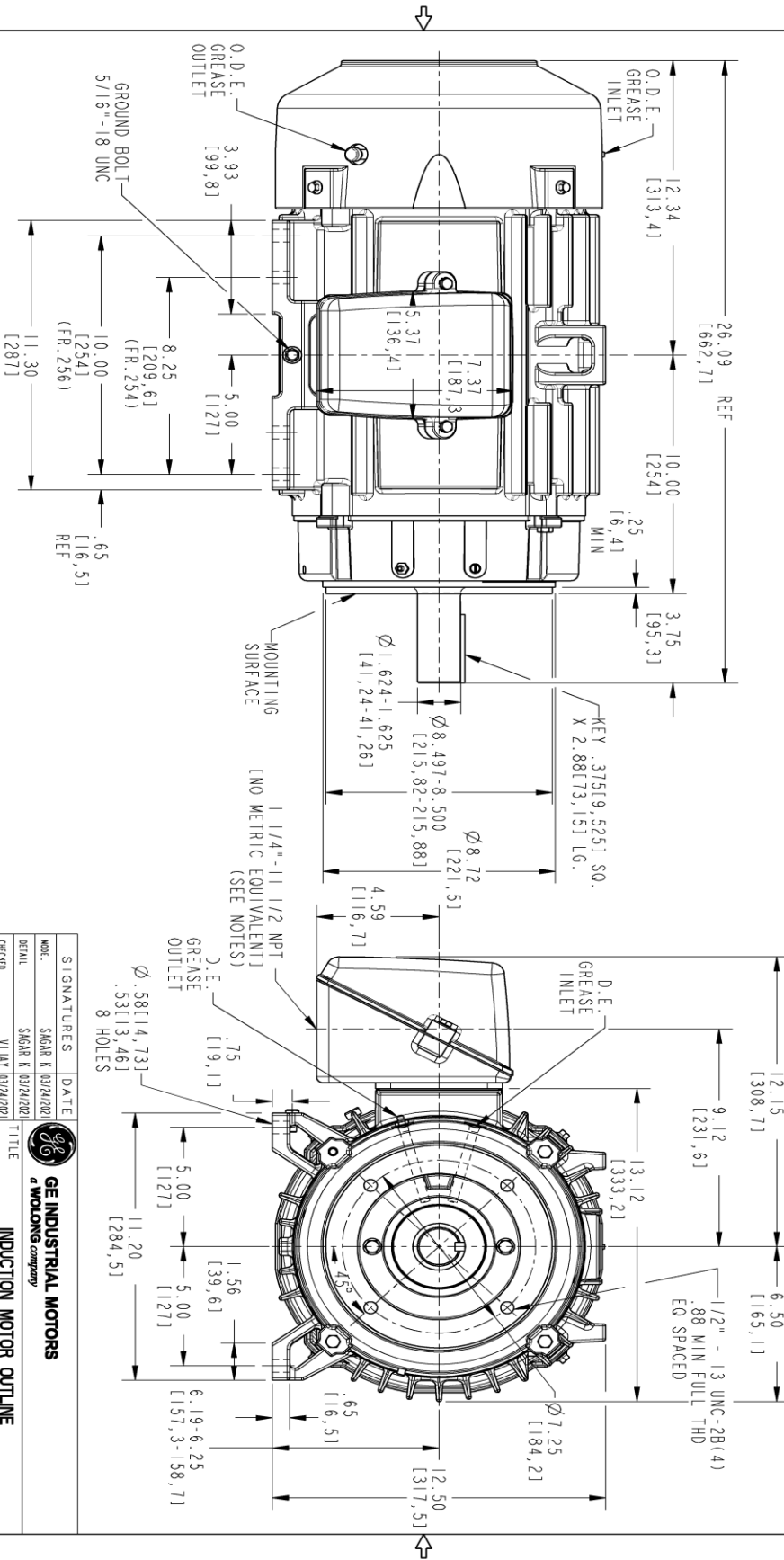
<b>Open Circuit A-C:</b>	0.386	<b>Short Circuit D-C:</b>	0.012
<b>Short Circuit A-C:</b>	0.023	<b>X/R Ratio:</b>	4.434
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

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



Marks:

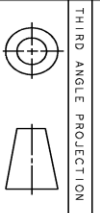
- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
- NOTE 5: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE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



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REV.	DESCRIPTION	DATE	APPROVED

SIZE	DRAWING NO.	REV	SHEET
B	4002B5825PBP5926	000	1



SIGNATURES	DATE	TITLE
SAGAR K [03/24/2021]		INDUCTION MOTOR OUTLINE
SAGAR K [03/24/2021]		FR 254/2561TC TFC, "C" FACE AT DRIVE END (850° RABBIT)
SAGAR K [03/24/2021]		137 CU IN C/BOX, GROUND PAD
SAGAR K [03/24/2021]		4002B5825PBP5926

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SCALE: 0.250 REF. No.: 4002B5825PBP5926

**Marks:**

**Connection Diagram**  
**GEM2034E-FIG7**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6106RF1	4004D5283SE1
Bearing	235A2508EC01	235A2507EB01
Slinger/Inproseal	149C4399G03	149C4399G02

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4003C5788PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

