



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

# Product Technical Information

April 11, 2021

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

<b>Model Number:</b>	<b>5KS215SAA105D4</b>
<b>Catalog Number:</b>	<b>M9147</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	4002B5821PAP5616

## 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>5KS215SAA105D4</b>	<b>Estimated Weight:</b>	220 Lbs
<b>Outline Drawing:</b>	4002B5821PAP5616	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG3	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	21BD0226A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	215T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	90.2 %
<b>Output Power:</b>	10HP 7.4KW	<b>Guaranteed Efficiency:</b>	89.5 %
<b>RPM:</b>	3530	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	2.3
<b>Amps - FL:</b>	23.2/11.6	<b>Power Factor:</b>	89.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6208ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

DE BRG 40BC02JP30 ODE BRG 40BC02JP30  
 EXCEPTION TO IEEE-STD-841-2009: DUAL VOLTAGE  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS215SAA105D4 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 -40C <= 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 8.6-60 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  
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  
SHAFT RUNOUT LIMIT .001" TIR  
OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD0226A**

**Marks:**

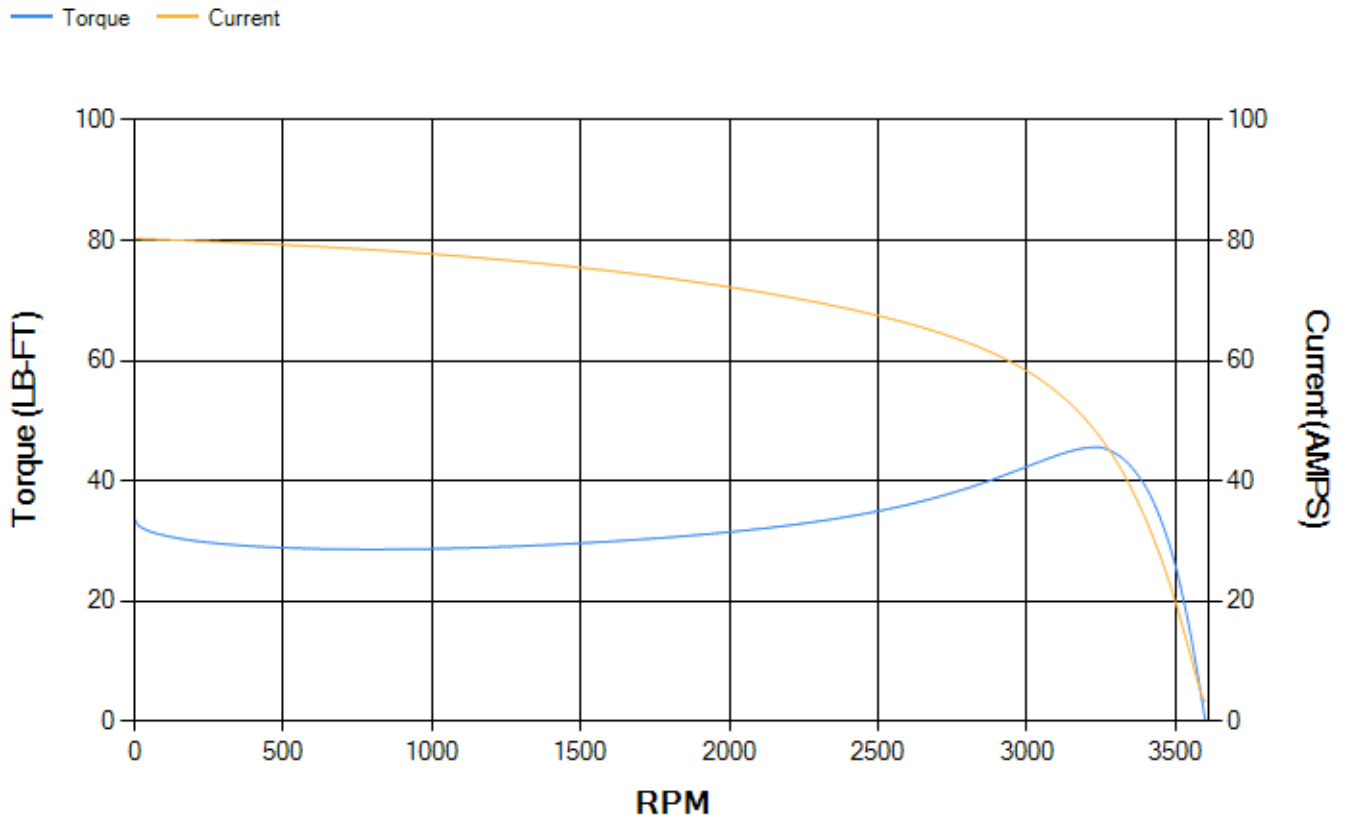
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.41	89.96	90.85	91.36	91.03	87.27	0.00
% PF	90.27	90.19	89.71	87.47	81.2	62.4	8.91
AMPS	14.5	13.27	11.47	8.78	6.33	4.3	3.2

<b>TORQ(FL)#FT</b>	14.87	<b>TORQ(LR)%FL</b>	225.98	<b>TORQ(BD)%FL</b>	304.23
<b>AMPS(LR)</b>	80.29	<b>PF AT START</b>	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 84 Lb-Ft Sq (3.54 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 35 seconds. Safe stall time at 100% voltage is 64 seconds cold, 42 seconds hot. Rotor inertia is 0.42 Lb-Ft Sq (0.02 Kg-meter Sq).

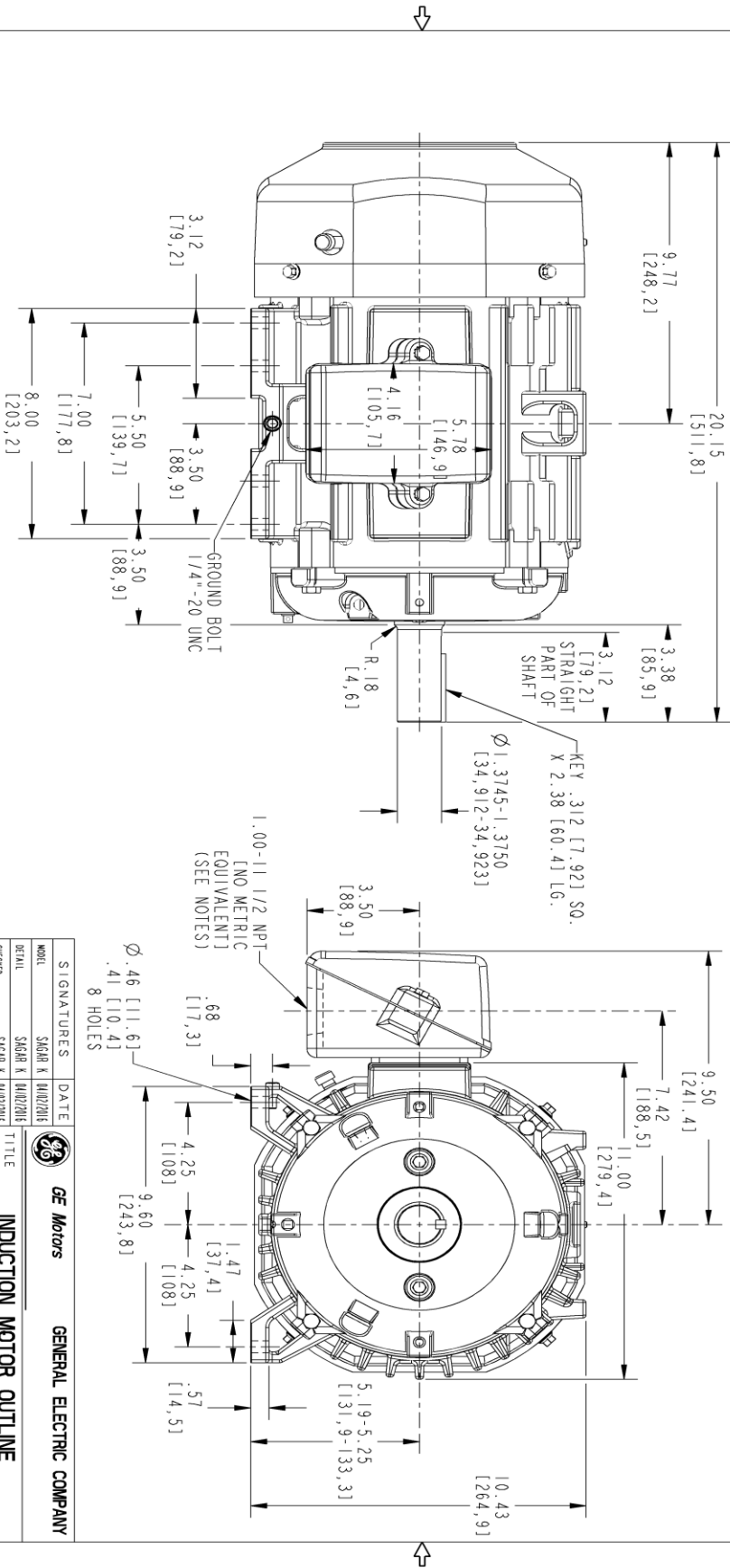
<b>Open Circuit A-C:</b>	0.494	<b>Short Circuit D-C:</b>	0.01
<b>Short Circuit A-C:</b>	0.017	<b>X/R Ratio:</b>	3.763
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	26

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



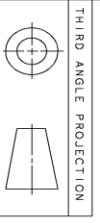
Marks:

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: ALL DIMENSIONS ARE IN INCHES AND BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).



SIZE	DRAWING NO.	REV	SHEET
B	4002B5821PAP5616	0	1

REV.	DESCRIPTION	DATE	APPROVED

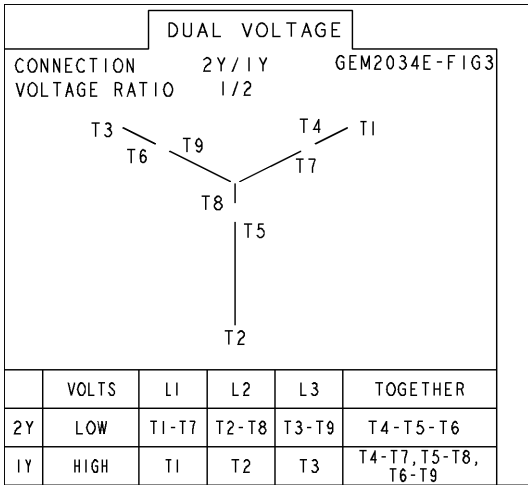


THIRD ANGLE PROJECTION

SIGNATURES	DATE	<b>GE Motors</b> GENERAL ELECTRIC COMPANY
MODEL: SGA8 K [4402206] DETAIL: SGA8 K [4402206] CHECKED: SGA8 K [4402206] ENG'D: - WEC: - QUALITY: - ISSUED: SGA8 K [4402206]	TITLE: <b>INDUCTION MOTOR OUTLINE</b> STANDARD CONSTRUCTION WITH GROUND PAD FR213/215 T TFC <b>4002B5821PAP5616</b>	
SCALE: 0.300	REF. No.: 4002B5821PAP5311	SHEET 1 of 1

Marks:

**Connection Diagram**  
**GEM2034E-FIG3**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5282PB1	4004D5282SJ1
Bearing	235A2503AE01	235A2503AE01
Slinger/Inproseal	149C4399G01	149C4399G01

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G01
Fan Cover	4003C5787PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

