



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 24, 2021

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

Model Number:	5KS213SAA408D3
Catalog Number:	M9705
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5821PAP5616

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

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

Marks:

MODEL NUMBER:	5KS213SAA408D3	Estimated Weight:	200 Lbs
Outline Drawing:	4002B5821PAP5616	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	21BD4022AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	213T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	86.5 %
Output Power:	2HP 1.5KW	Guaranteed Efficiency:	85.5 %
RPM:	880	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	L
Hertz:	60	Max KVAR:	1.8
Amps - FL:	3.7	Power Factor:	58.5
Service Factor:	1.15	Bearing - DE:	6208ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 40BC02JP30 ODE BRG 40BC02JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS213SAA408D3 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 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:

8P - 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: 21BD4022AA

Marks:

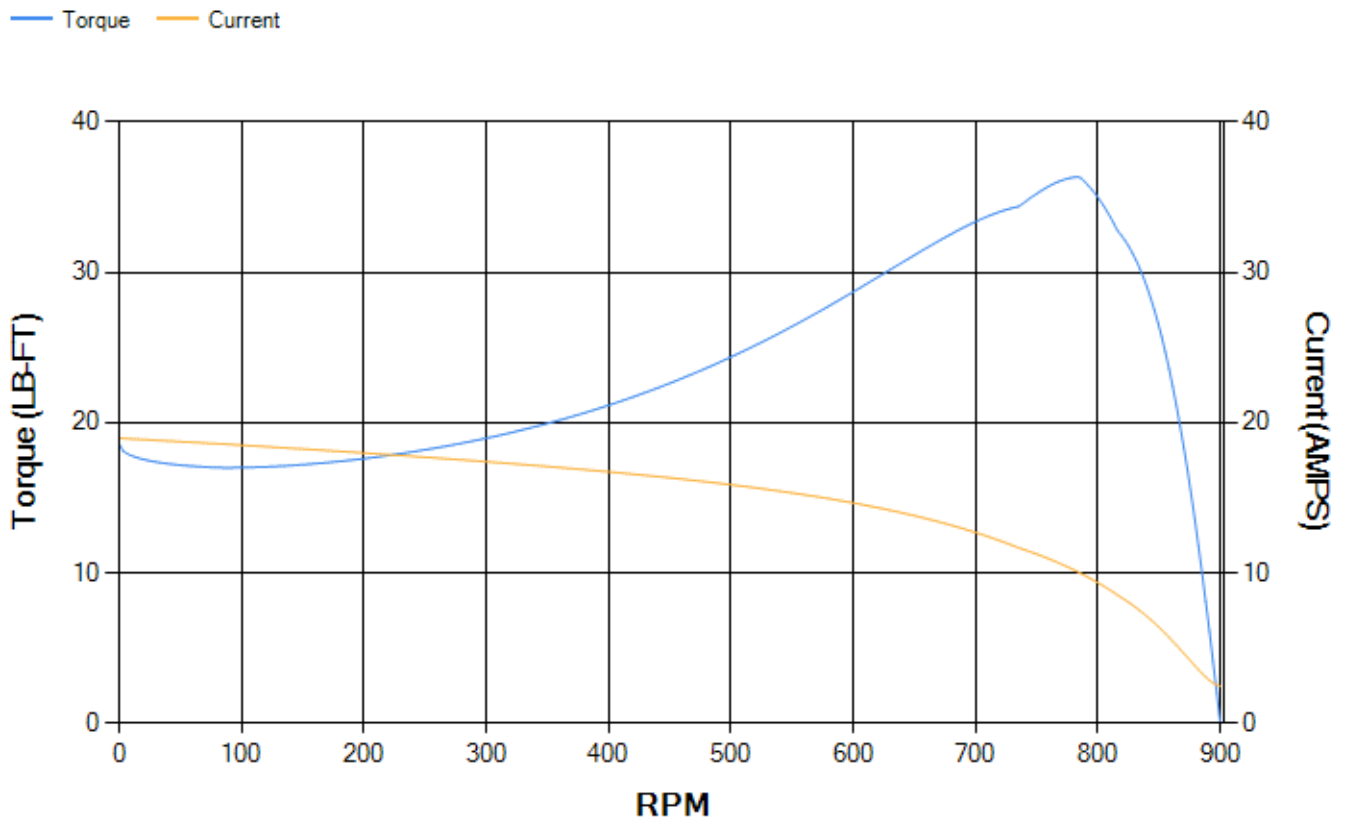
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	86.68	87.02	87.49	86.92	84.64	76.34	0.00
% PF	64.04	62.21	58.74	50.66	39.12	23.85	5.51
AMPS	4.22	3.98	3.67	3.19	2.83	2.57	2.47

TORQ(FL)#FT	11.96	TORQ(LR)%FL	155.07	TORQ(BD)%FL	302.06
AMPS(LR)	18.96	PF AT START	0.31		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 724 Lb-Ft Sq (30.48 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 105 seconds. Safe stall time at 100% voltage is 234 seconds cold, 191 seconds hot. Rotor inertia is 0.82 Lb-Ft Sq (0.03 Kg-meter Sq).

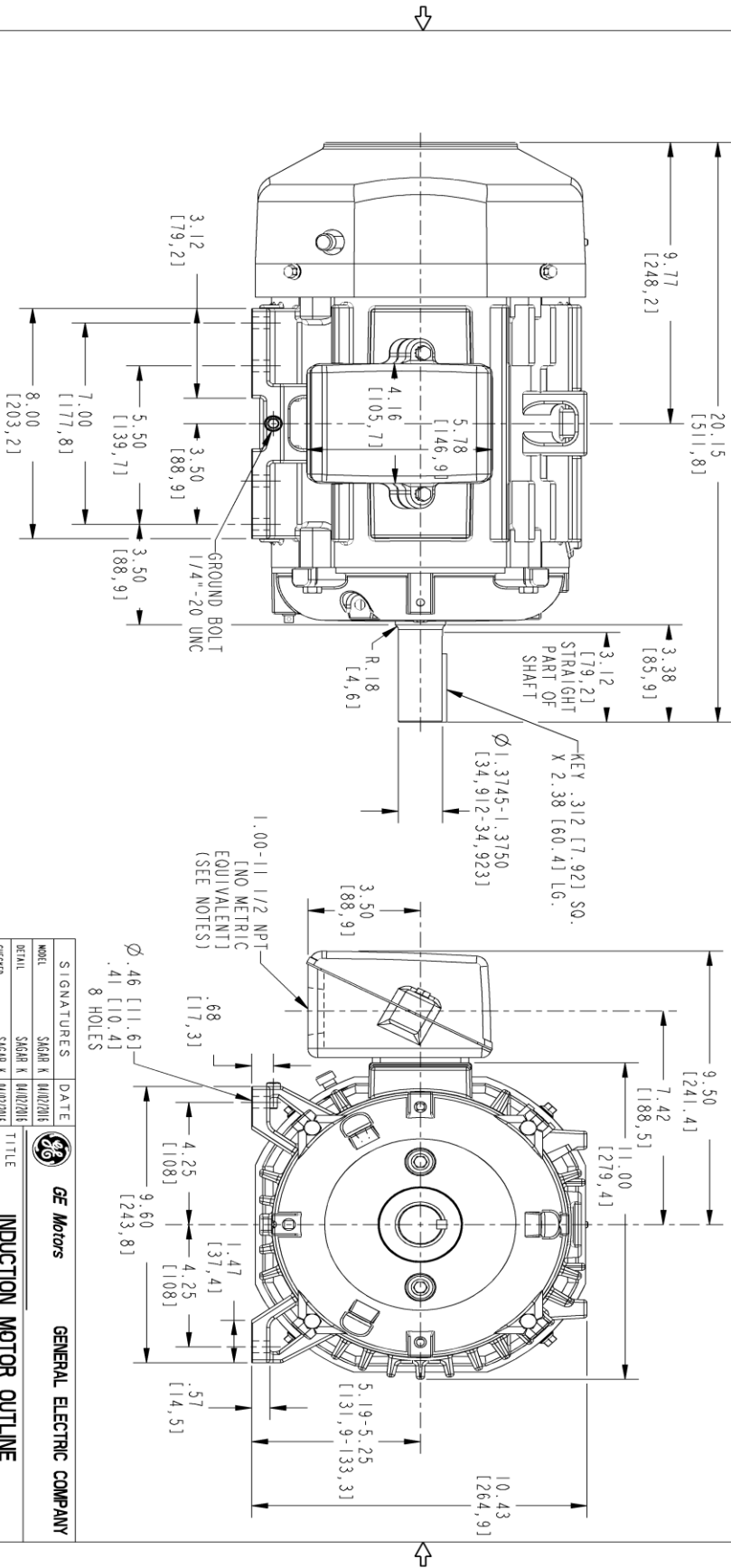
Open Circuit A-C:	0.132	Short Circuit D-C:	0.015
Short Circuit A-C:	0.018	X/R Ratio:	5.485
Stator Slots:	36	Rotor Slots:	48

Speed Torque Current Curve (First Connection, First Speed)



Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, 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).



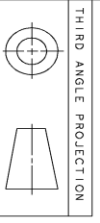
SIZE DRAWING NO. B

4002B5821PAP5616 0

REV SHEET 1

REV.	DESCRIPTION	DATE	APPROVED

REVISIONS



THIRD ANGLE PROJECTION

SIGNATURES	DATE	GE Motors GENERAL ELECTRIC COMPANY
MODEL: SAGAR K. [4/10/2016] DETAIL: SAGAR K. [4/10/2016] CHECKED: SAGAR K. [4/10/2016] ENG'D: - WEC: - QUALITY: - ISSUED: SAGAR K. [4/10/2016]	TITLE: INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION WITH GROUND PAD FR213/215 T TFC 4002B5821PAP5616	
SIZE DRAWING: B SCALE: 0.300 REF. No. 4002B5821PAP5311	REV: 0	SHEET 1 of 1

Marks:

Connection Diagram
GEM2034E-FIG1



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	159C6700G01
Fan Cover	4003C5787PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

