



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

# Product Technical Information

September 8, 2022

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

<b>Model Number:</b>	<b>5KS215BAA205</b>
<b>Catalog Number:</b>	<b>M1148</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5821GAP5201

## 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:** 5KS215BAA205  
**Outline Drawing:** 4002B5821GAP5201  
**Connection Diagram:** GEM2034E-FIG9  
**Instruction Book:** GEI-56128  
**Design Code:** 21BD1134A  
**Type:** KS  
**Frame:** 215T  
**Phases:** 3  
**Poles:** 4  
**Output Power:** 10HP 7.4KW  
**RPM:** 1765  
**Voltage:** 230/460  
**Hertz:** 60  
**Amps - FL:** 24.4/12.2  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 220 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** GP  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** --  
**Insulation Class:** F  
**NEMA Design:** B  
**Nominal Efficiency:** 91.7 %  
**Guaranteed Efficiency:** 90.2 %  
**3/4 Load Efficiency:** --  
**KVA Code:** H  
**Max KVAR:** 3.0  
**Power Factor:** 83.5  
**Bearing - DE:** 6208-2ZC3  
**Bearing - ODE:** 6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-24.4A



**Additional Information:**

4P - T EXTN  
STANDARD FLOOR MOUNT  
C/BOX 55 CU IN-1.00 NPT  
F1 CONDUIT BOX MOUNTING  
INVERTER DUTY PER NEMA MG1 PART 31  
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
VAR TORQUE RANGE 0-60 HZ  
SUITABLE FOR 208V-24.4 AMPS WITH 1.15 SF



**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD1134A**

**Marks:**

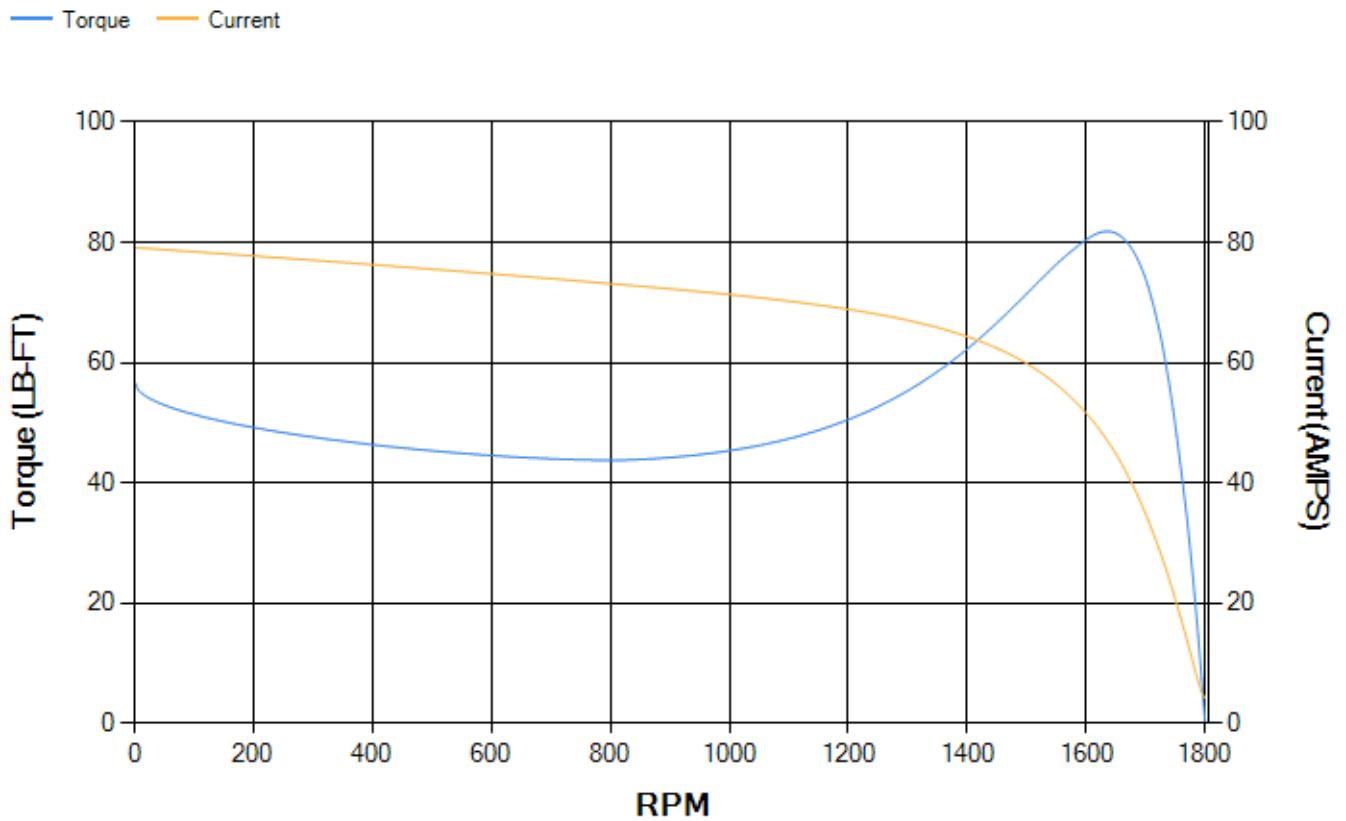
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.28	90.86	91.78	92.33	92.14	88.91	0.00
% PF	84.3	84.26	83.65	80.56	72.36	51.45	5.88
AMPS	15.37	14.06	12.19	9.44	7.02	5.11	4.18

<b>TORQ(FL)#FT</b>	29.72	<b>TORQ(LR)%FL</b>	190.92	<b>TORQ(BD)%FL</b>	273.59
<b>AMPS(LR)</b>	79.12	<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 338 Lb-Ft Sq (14.23 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 46 seconds. Safe stall time at 100% voltage is 102 seconds cold, 68 seconds hot. Rotor inertia is 1.12 Lb-Ft Sq (0.05 Kg-meter Sq).

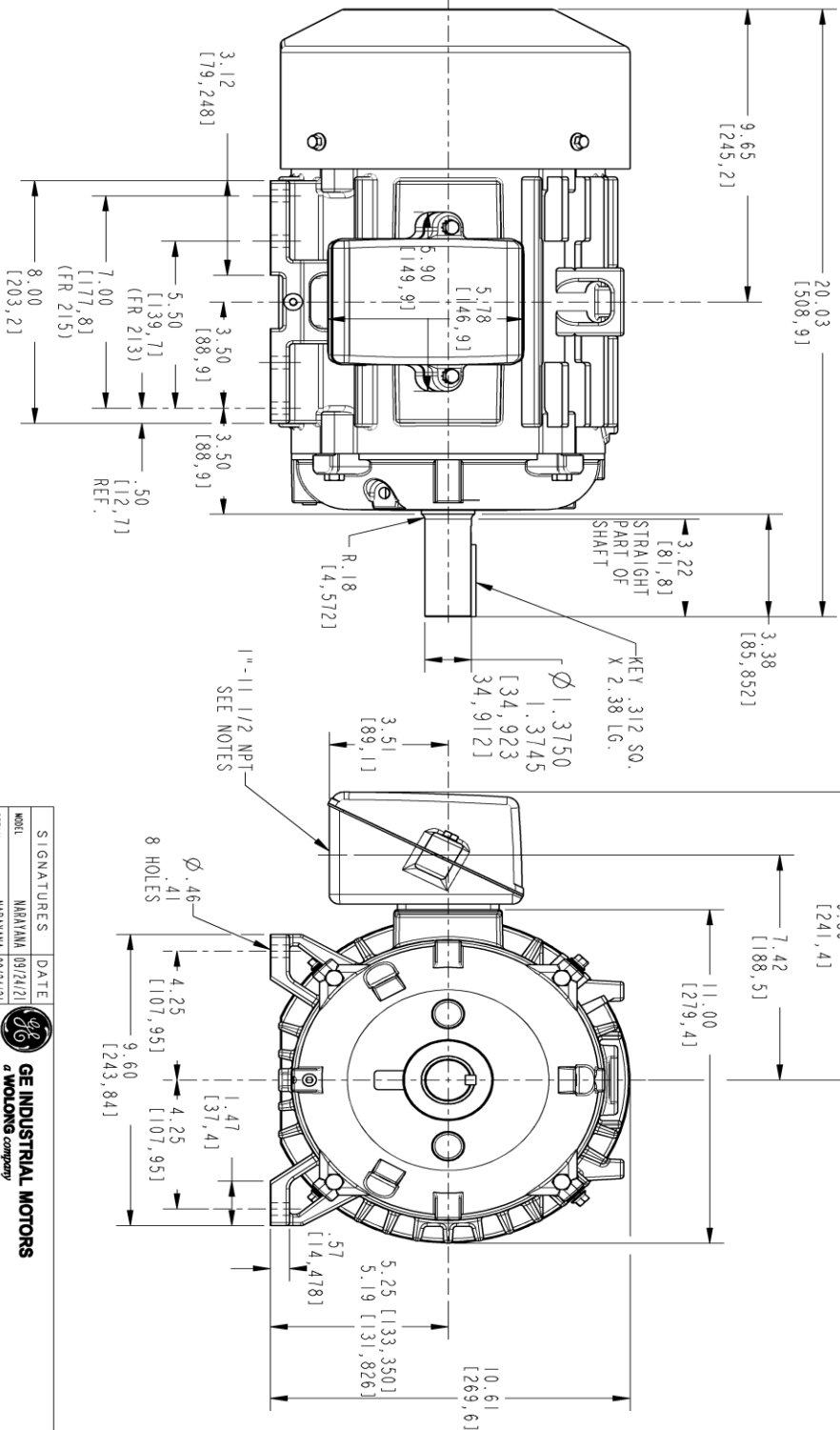
<b>Open Circuit A-C:</b>	0.421	<b>Short Circuit D-C:</b>	0.013
<b>Short Circuit A-C:</b>	0.02	<b>X/R Ratio:</b>	4.867
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

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



Marks:

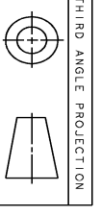
NOTE 1 : CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2 : F1 ASSEMBLY AS SHOWN.  
 NOTE 3 : ALL DIMENSIONS ARE IN INCHES BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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REV.	DESCRIPTION	DATE	APPROVED

ALL DIMENSIONS ARE IN INCHES



SIGNATURES	DATE	TITLE
	09/24/21	INDUCTION MOTOR OUTLINE
	09/24/21	GP CONSTRUCTION
	09/24/21	FMF: FR 29/26 T TECC
	09/24/21	

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SCALE: 0.300 REF. No.: 4002B5821PA201

SHEET DRAWING	4002B5821GAP5201	REV 0
SOLID MODEL: 4002B5821GAP5201	SCALE: 0.300 REF. No.: 4002B5821PA201	SHEET 1 OF 1

Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



## End shield Assembly

Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5282PA1	4004D5282SB1
Bearing	235A2603AA02	235A2603AA02
Slinger/Inproseal	149C4399G01	

## Fan &amp; Fan Cover Assembly

Part Description	Part#
Fan	159C6700G01
Fan Cover	4003C5806PA1

## Conduit &amp; Accessories Box Assembly

Part Description	Part#
Conduit Box	4002B5721PT-G01

## Mechanical Accessories

Part Description	Part#
Brake	
Tachometer	

