



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

# Product Technical Information

April 23, 2021

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

<b>Model Number:</b>	<b>5KS215XAA100D4</b>
<b>Catalog Number:</b>	<b>M8931</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5821PBP5463

## 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:

**MODEL NUMBER:** 5KS215XAA100D4  
**Outline Drawing:** 4002B5821PBP5463  
**Connection Diagram:** GEM2034E-FIG1  
**Instruction Book:** GEI-56128  
**Design Code:** 21BD0121A  
**Type:** KS  
**Frame:** 215TC  
**Phases:** 3  
**Poles:** 2  
**Output Power:** 10HP 7.4KW  
**RPM:** 3520  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 11.5  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 220 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:** 90.2 %  
**Guaranteed Efficiency:** 89.5 %  
**3/4 Load Efficiency:** --  
**KVA Code:** H  
**Max KVAR:** 2.2  
**Power Factor:** 90.0  
**Bearing - DE:** 6309ZC3  
**Bearing - ODE:** 6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

IEEE-STD-841-2009  
 DE BRG 45BC03JP30 ODE BRG 40BC02JP30  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS215XAA100D4 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 230C AT 1.15SF ON SINE-WAVE PWR  
 OR 200 C VT OR 215 C CT OR 200 C 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  
"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  
INPRO SEAL BOTH ENDS  
GROUND SCREW ON FRAME  
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE  
SHAFT RUNOUT LIMIT .001" TIR  
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS  
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,  
AND PLUG THREADS  
OIL RESISTANT SLEEVING ON LEADS



**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD0121A**

**Marks:**

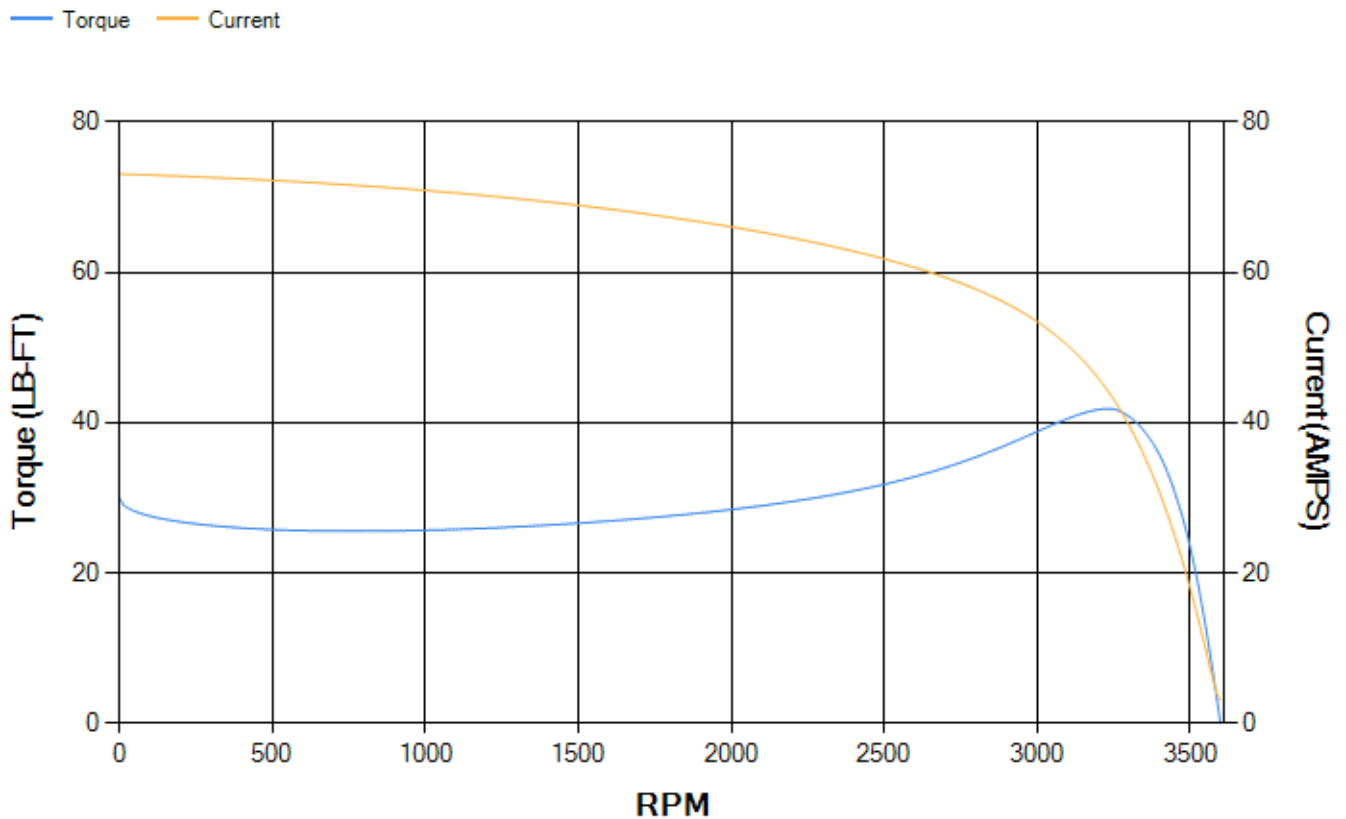
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.6	89.26	90.31	91.03	90.91	87.39	0.00
% PF	89.96	90.02	89.75	87.9	82.21	64.19	9.16
AMPS	14.68	13.4	11.53	8.77	6.26	4.17	3.04

<b>TORQ(FL)#FT</b>	14.92	<b>TORQ(LR)%FL</b>	201.08	<b>TORQ(BD)%FL</b>	278.45
<b>AMPS(LR)</b>	73.1	<b>PF AT START</b>	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 75 Lb-Ft Sq (3.16 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 67 seconds cold, 42 seconds hot. Rotor inertia is 0.39 Lb-Ft Sq (0.02 Kg-meter Sq).

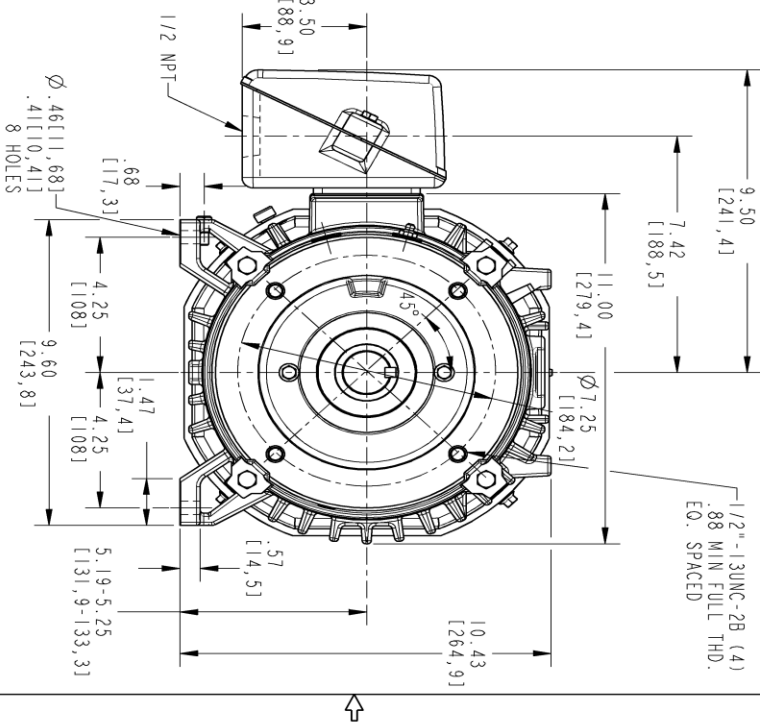
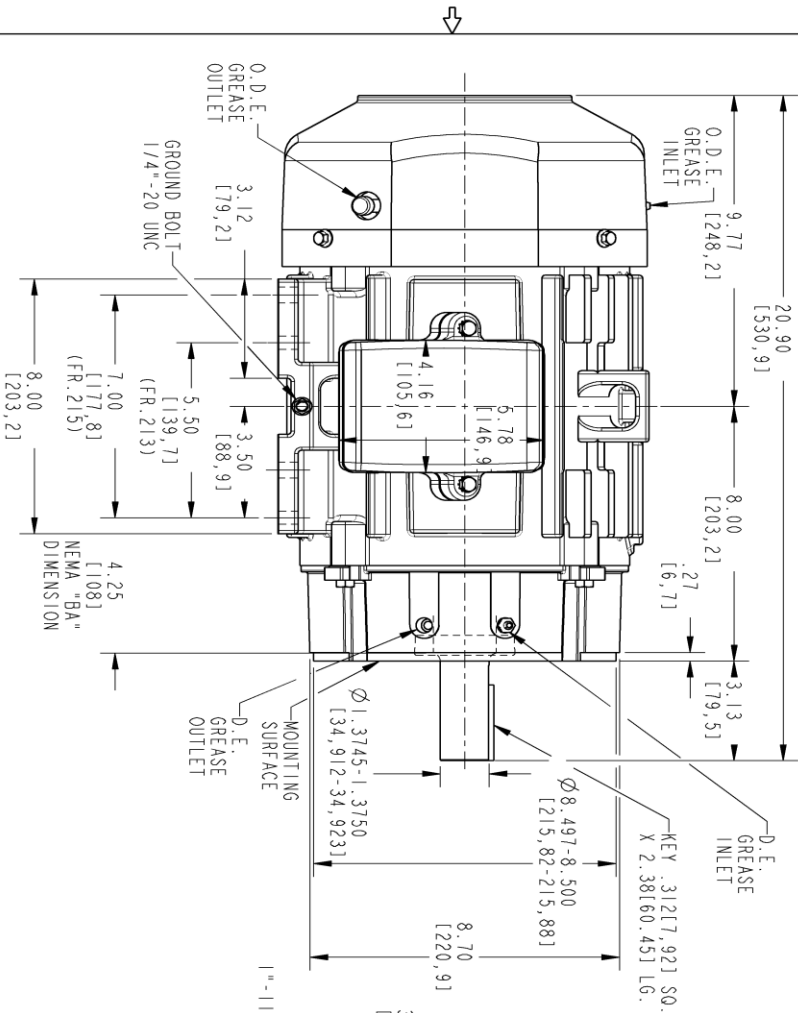
<b>Open Circuit A-C:</b>	0.466	<b>Short Circuit D-C:</b>	0.01
<b>Short Circuit A-C:</b>	0.017	<b>X/R Ratio:</b>	3.897
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	26

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



Marks:

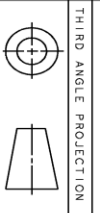
- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT NOT TO EXCEED .001 T.I.R.
- NOTE 5: D.E. 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
1	ISAAC# 18-0869	11/01/18	PRASHANTH

SIZE	DRAWING NO.	REV	SHEET
B	4002B5821PBP5463	001	1



SIGNATURES	DATE	TITLE
LAKSHIKANTH	03/02/21	INDUCTION MOTOR OUTLINE
LAKSHIKANTH	03/02/21	DETAIL
PIVUSH	03/02/21	CHECKED
PIVUSH	03/02/21	ENGR
LAKSHIKANTH	03/17/21	ISSUED

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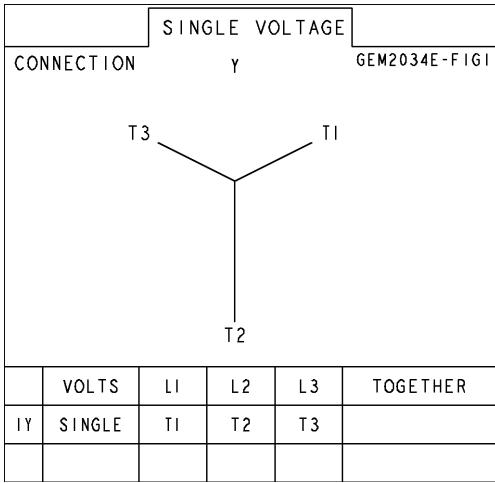
IEEE-841 SPEC, "C" FACE AT DE (185° RABERT)  
 FR 219TC/216 TC TERC, 55 CL IN BOX

4002B5821PBP5463

SCALE: 0.300 REF. No.: 4002B5821PBP5311

**Marks:**

**Connection Diagram**  
**GEM2034E-FIG1**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6006RF1	4004D5282SJ1
Bearing	235A2507EB01	235A2503AE01
Slinger/Inproseal	4002B5914GF3	4002B5914AG3

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	

