



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

# Product Technical Information

August 27, 2021

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

<b>Model Number:</b>	<b>5KS215XAA1018D1</b>
<b>Catalog Number:</b>	<b>M9504</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	4002B5821PDP5440

## 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>5KS215XAA1018D1</b>	<b>Estimated Weight:</b>	220 Lbs
<b>Outline Drawing:</b>	4002B5821PDP5440	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	21BD0121A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	215TC	<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>	3520	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	2.2
<b>Amps - FL:</b>	11.5	<b>Power Factor:</b>	90.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6309ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	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:5KS215XAA1018D1 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 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  
C/BOX 55 CU IN-1.00 NPT  
"C" FACE AT DE ENDSHIELD ROUND FRAME  
VERTICAL MOUNT SHAFT DOWN WITH DRIPCOVER  
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  
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE NEAR FOOT  
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:**

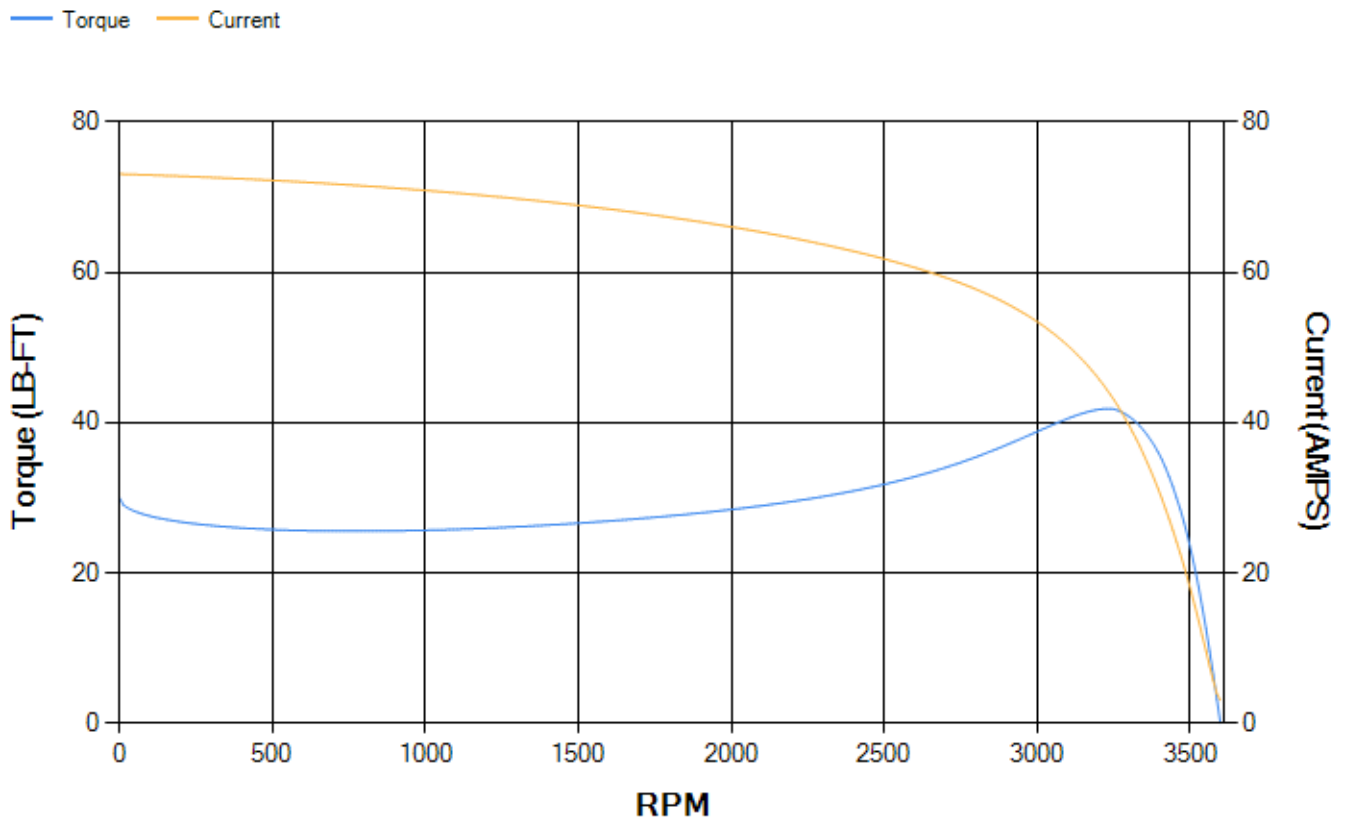
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.6	89.26	90.31	91.03	90.91	87.39	0.00
% PF	89.96	90.02	89.75	87.9	82.21	64.19	9.16
AMPS	14.68	13.4	11.53	8.77	6.26	4.17	3.04

<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).

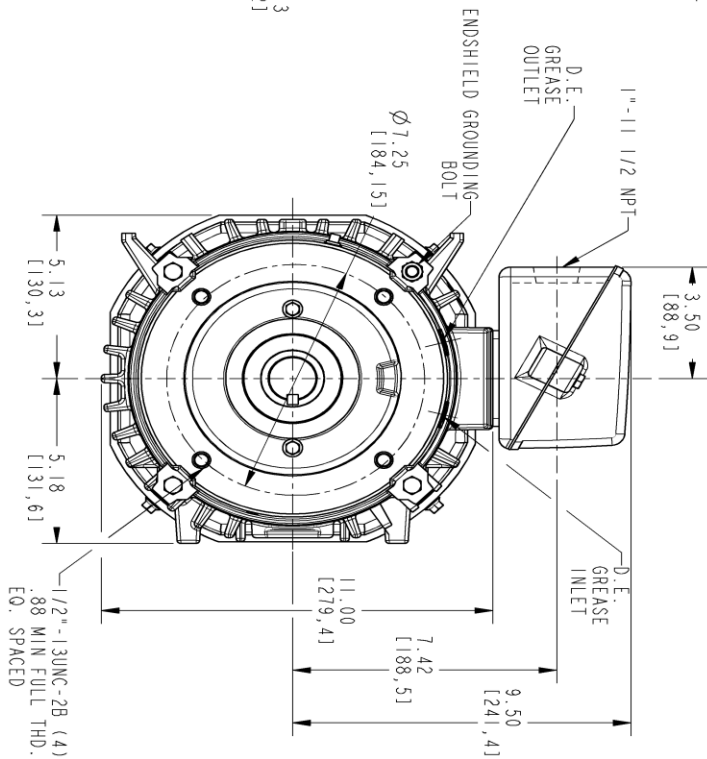
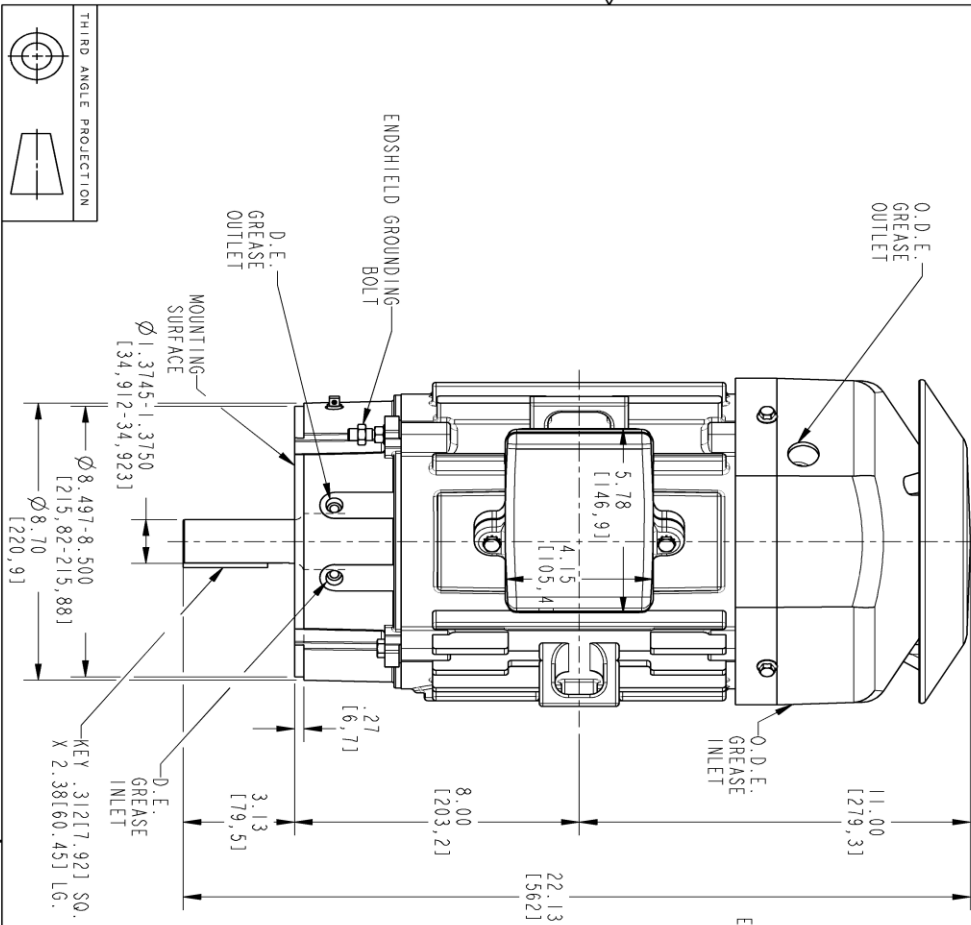
<b>Open Circuit A-C:</b>	0.466	<b>Short Circuit D-C:</b>	0.01
<b>Short Circuit A-C:</b>	0.017	<b>X/R Ratio:</b>	3.897
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	26

**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]

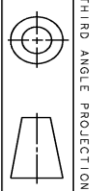


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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	 <b>GE</b> <b>POWER CONVERSION</b>	DES. THE
LAKSHANATH [03/01/2021]	[03/01/2021]		MECHANICAL DESIGN
DETAIL	LAKSHANATH [03/01/2021]	GE CLASSIFICATION:	INTERNAL DESIGN
ORDERED	PYRUSH [03/01/2021]	TITLE	INDUCTION MOTOR OUTLINE
ENG'D	PYRUSH [03/01/2021]		IEEE-841 SPEC. 'C' FACE AT DE FT
CHK			FME: KS210TC TFFC 'C' FACE 1850
QUALITY		SIZE DRAWING	4002B5821PDP5440
ISSUED	LAKSHANATH [03/01/2021]	SCALE: 0.300 REF. No. 4002B5821PDP5310	REV 000
DWG EXPORT TAG:			SHEET 1 of 1
NO LICENSE REQUIRED			

SOLID MODEL: 4002B5821PDP5440



THIRD ANGLE PROJECTION

**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	4003C5521BN-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

