



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 24, 2020

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

Model Number:	5KS215XAA341C
Catalog Number:	M9500
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5821PDP5440

Accessory Connection Diagrams

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

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Marks:

MODEL NUMBER:	5KS215XAA341C	Estimated Weight:	220 Lbs
Outline Drawing:	4002B5821PDP5440	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	21BD3000A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	215TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	89.5 %
Output Power:	5HP 3.7KW	Guaranteed Efficiency:	88.5 %
RPM:	1170	3/4 Load Efficiency:	90.5 %
Voltage:	460	KVA Code:	J
Hertz:	60	Max KVAR:	2.2
Amps - FL:	6.8	Power Factor:	77.0
Service Factor:	1.15	Bearing - DE:	6309ZC3
Alt Service Factor:	--	Bearing - ODE:	6208ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 45BC03JP30 ODE BRG 40BC02JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS215XAA341C 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 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 3-60HZ, CHP 60-90HZ.



Additional Information:

6P - 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: 21BD3000A

Marks:

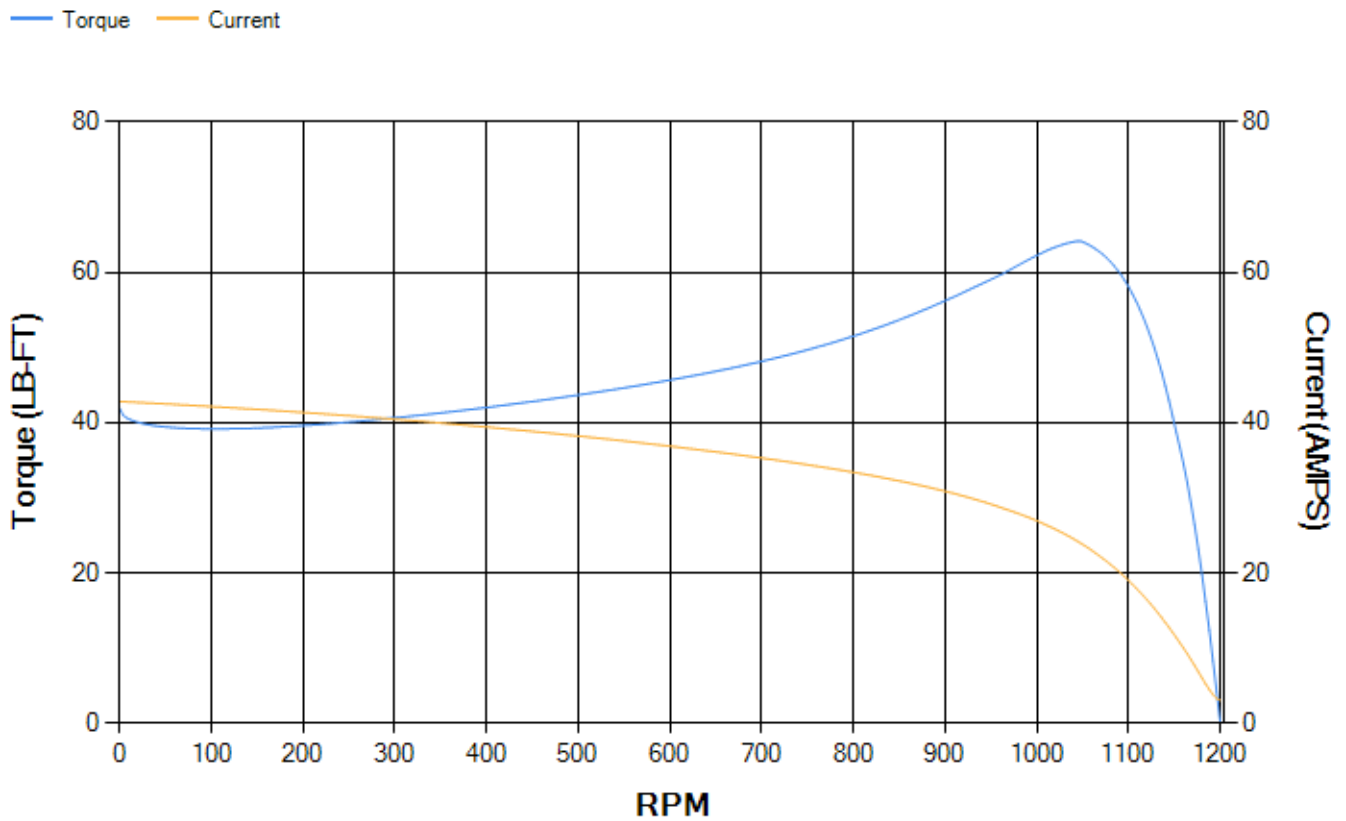
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	87.98	88.71	89.8	90.51	90.25	86.28	0.00
% PF	79.22	78.61	77	71.67	60.69	39.46	5.08
AMPS	8.39	7.72	6.77	5.41	4.27	3.44	3.04

TORQ(FL)#FT	22.42	TORQ(LR)%FL	187.13	TORQ(BD)%FL	283.54
AMPS(LR)	42.82	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 559 Lb-Ft Sq (23.53 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 54 seconds. Safe stall time at 100% voltage is 121 seconds cold, 86 seconds hot. Rotor inertia is 0.9 Lb-Ft Sq (0.04 Kg-meter Sq).

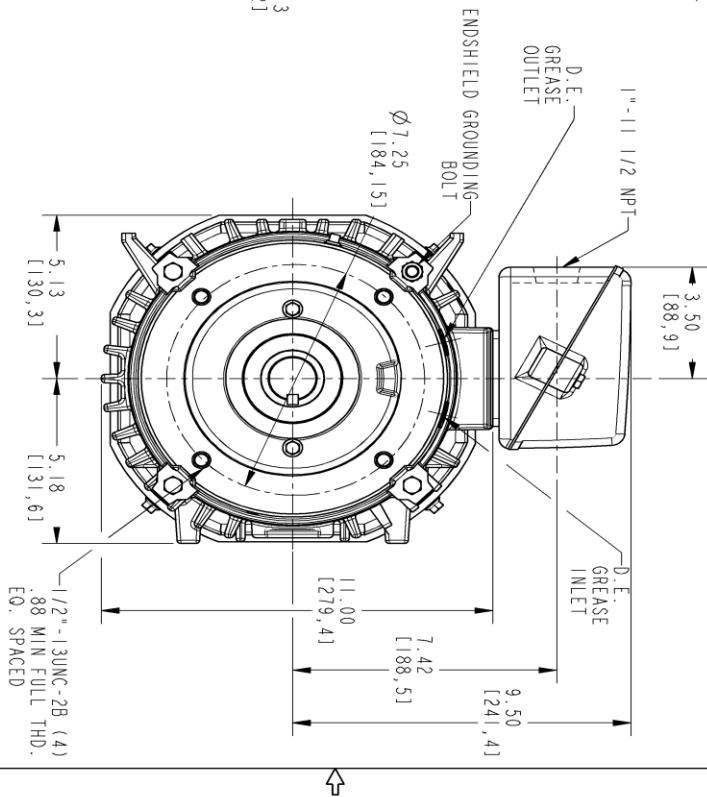
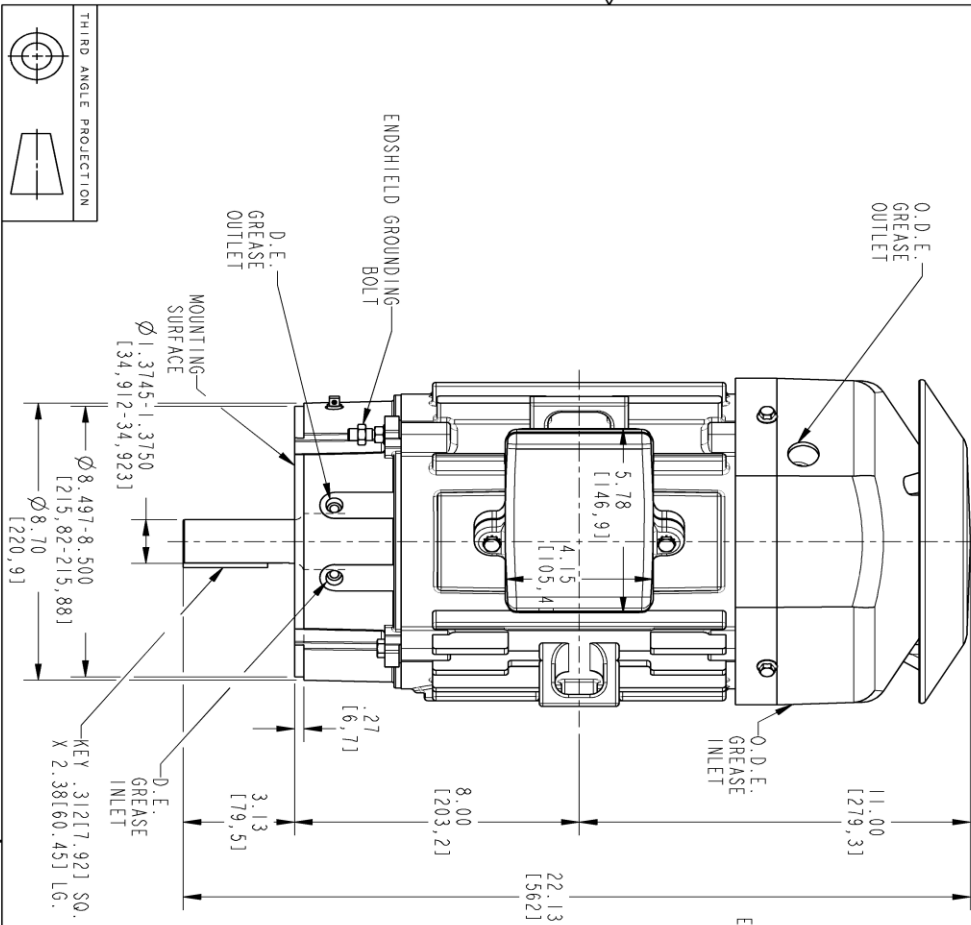
Open Circuit A-C:	0.238	Short Circuit D-C:	0.01
Short Circuit A-C:	0.014	X/R Ratio:	3.642
Stator Slots:	36	Rotor Slots:	44

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]

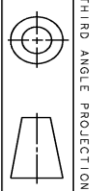


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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	 GE POWER CONVERSION	DESIGN
LAKSHANATH	03/01/2017		Mechanical Design
DETAIL	LAKSHANATH	GE CLASSIFICATION:	INTERNAL DESIGN
ORDERED	PIYUSH	TITLE	INDUCTION MOTOR OUTLINE
ENGR	PIYUSH	IEEE-841 SPEC. 'C' FACE AT DE FT	
WEG		FINE: KS210TC TFFC 'C' FACE 1850	
QUALITY		SIZE DRAWING	
ISSUED	LAKSHANATH	4002B5821PDP5440	
DWG EXPORT TAG:	B	SCALE: 0.300	REF. No. 4002B5821PDP5310
NO LICENSE REQUIRED			SHEET 1 of 1

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	159C6700G01
Fan Cover	4003C5521BN-G01

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

