



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 11, 2021

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

Model Number:	5KS213XAA1023D
Catalog Number:	M9501
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:	5KS213XAA1023D	Estimated Weight:	200 Lbs
Outline Drawing:	4002B5821PDP5440	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	21BD0074AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	213TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	89.5 %
Output Power:	7.5HP 5.6KW	Guaranteed Efficiency:	88.5 %
RPM:	3530	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	2.1
Amps - FL:	9.0	Power Factor:	87.5
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:5KS213XAA1023D 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 3-60 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: 21BD0074AA

Marks:

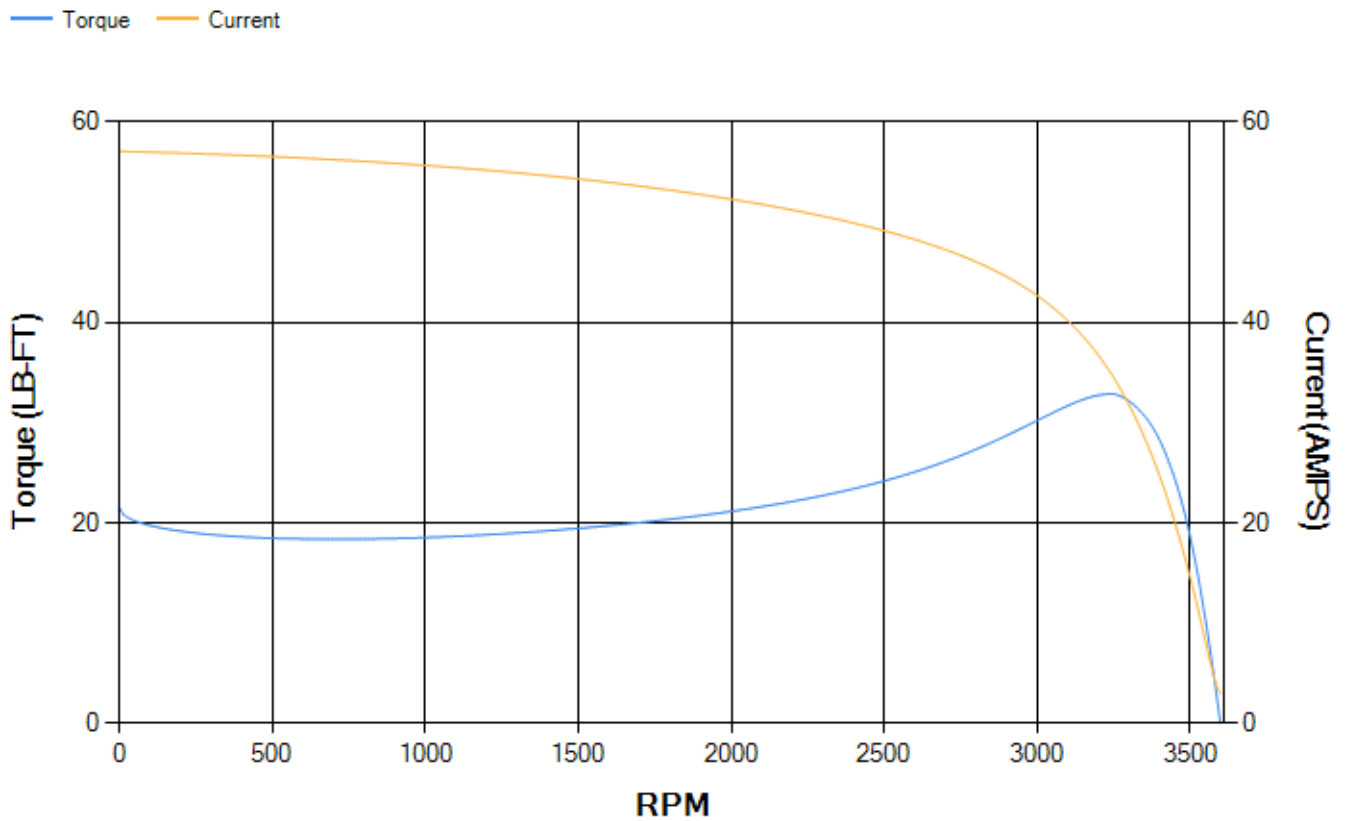
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.4	88.93	89.77	90.08	89.34	84.42	0.00
% PF	88.52	88.26	87.44	84.3	76.45	56.1	9.34
AMPS	11.21	10.28	8.93	6.93	5.14	3.71	2.96

TORQ(FL)#FT	11.16	TORQ(LR)%FL	192.78	TORQ(BD)%FL	292.4
AMPS(LR)	57.09	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 78 Lb-Ft Sq (3.28 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 49 seconds. Safe stall time at 100% voltage is 85 seconds cold, 59 seconds hot. Rotor inertia is 0.31 Lb-Ft Sq (0.01 Kg-meter Sq).

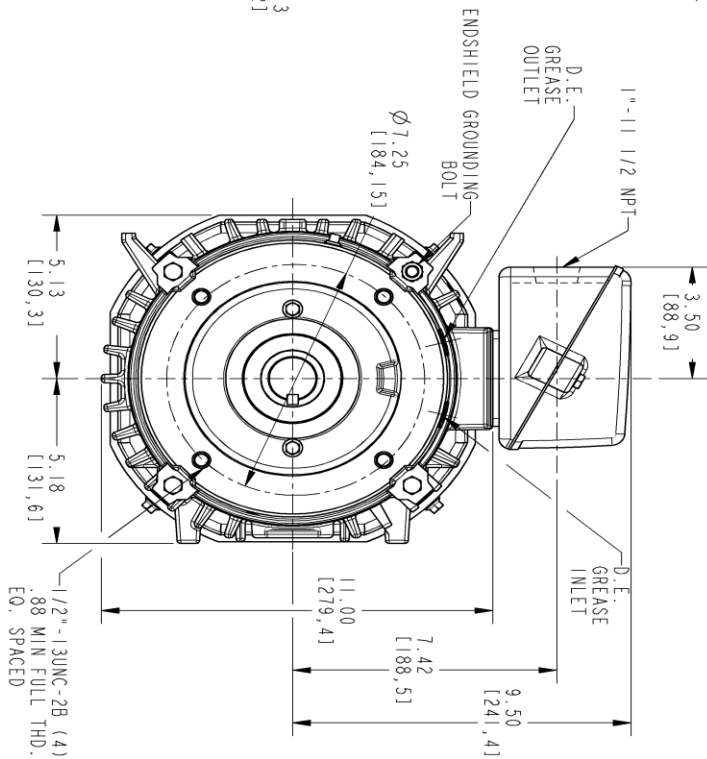
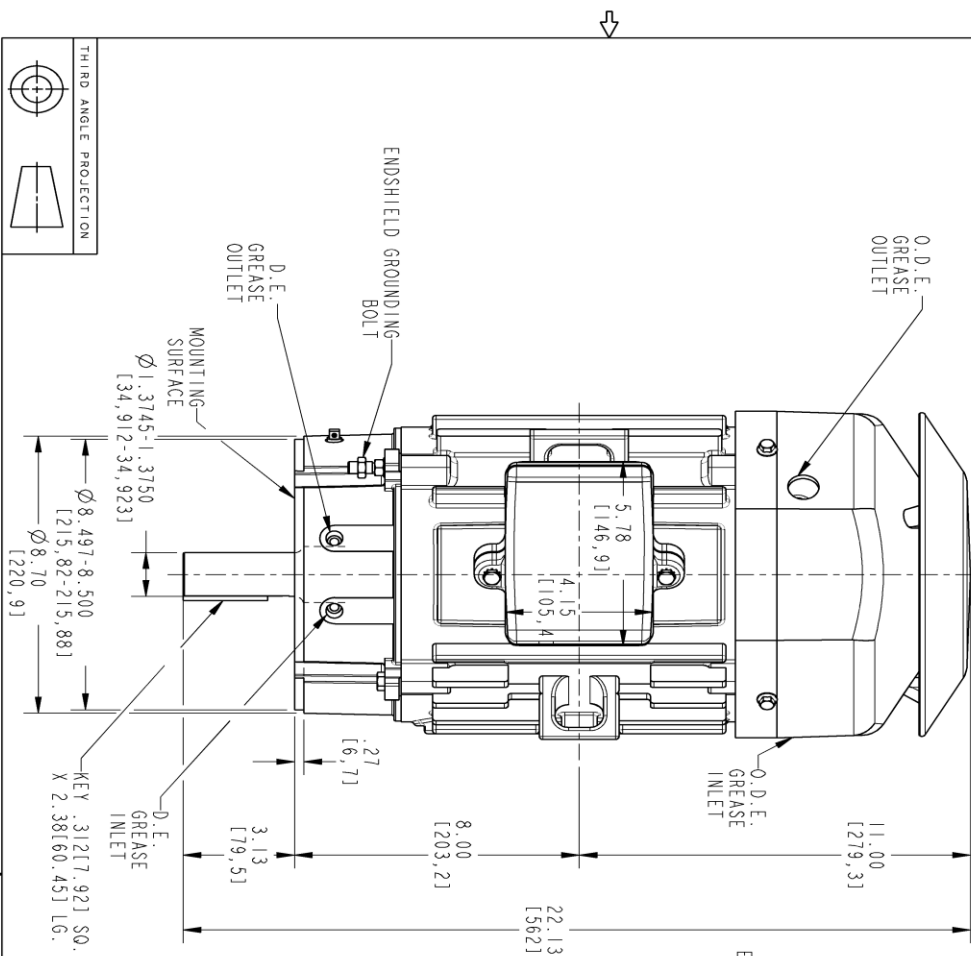
Open Circuit A-C:	0.402	Short Circuit D-C:	0.01
Short Circuit A-C:	0.018	X/R Ratio:	3.858
Stator Slots:	36	Rotor Slots:	26

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]

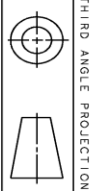


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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	 GE POWER CONVERSION	DES. THE
LAKSHANATH [SIGNATURE]	[DATE]		MECHANICAL DESIGN
MODEL	LAKSHANATH [SIGNATURE]	CLASS II IGT INVERTER CIRCUIT	INDUSTRIAL DESIGN
DETAIL	LAKSHANATH [SIGNATURE]	TITLE	INDUCTION MOTOR OUTLINE
ORDERED	PYRUSH [SIGNATURE]	IEEE-841 SPEC. 'C' FACE AT DE FT	
ENGR	PYRUSH [SIGNATURE]	FME: KS210TC TFC 'C' FACE 1850	
CHK			
QUALITY			
ISSUED	LAKSHANATH [SIGNATURE]	SIZE DRAWING	4002B5821PDP5440
DWG EXPORT TAG:	B	SCALE: 0.300 REF. No. 4002B5821PDP5310	REV 0000
NO LICENSE REQUIRED			SHEET 1 of 1

SOLID MODEL: 4002B5821PDP5440



THIRD ANGLE PROJECTION

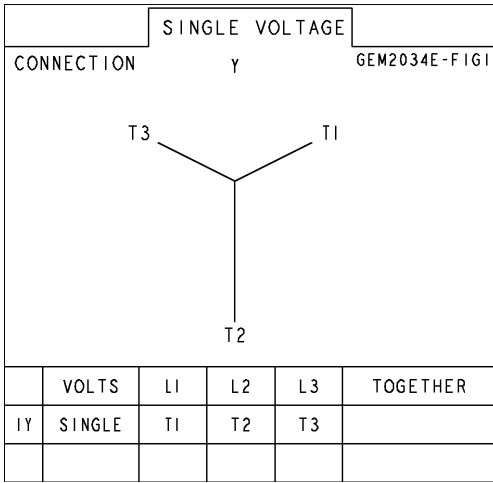
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REV SHEET

REVISIONS

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	

