GE
Power Conversion

Product Information Packet

February 18, 2017

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

Model Number:	**5KS213XAE6423B**
Catalog Number:	**V866**
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	4002B5821PNP5310

Accessory Connection Diagrams

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

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imagination at work

Marks:

MODEL NUMBER:	**5KS213XAE6423B**	**Estimated Weight:**	200 Lbs
Outline Drawing:	4002B5821PNP5310	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEK-95351	**Encl Construction:**	841
Design Code:	21BD1152A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L213VP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	91.7 %
Output Power:	7.5HP 5.6KW	**Guaranteed Efficiency:**	90.2
RPM:	1770	**3/4 Load Efficiency:**	92.2
Voltage:	460	**KVA Code:**	H
Hertz:	60	**Max KVAR:**	2.3
Amps - FL:	9.2	**Power Factor:**	83.5
Service Factor:	1.15	**Bearing - DE:**	7308
Alt Service Factor:	--	**Bearing - ODE:**	6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VERTICAL-841
PREMIUM EFFICIENT MOTOR
DE BRG 40BT03XP3 ODE BRG 40BC02JP3
SEVERE DUTY
EXCEPTION TO IEEE-STD-841-2009:THRUST BRG ON DE
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 0-60 HZ
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITIONS
AT 1.00 S.F. DO NOT EXCEED 200 DEG C
STAMP NP249A5499AP AS BELOW:
MODEL:5KS213XAE6423B S/N: XXX
EX NA IIC T3 GC CSA.09.2216219
CLASS I, ZONE 2, AEX NA IIC T3
CLASS I, DIV 2, GROUPS A, B, C, D T3
-25C <= TAMB <= 40C

Additional Information:

4P - VP EXTN
C/BOX 55 CU IN-1.00 NPT
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
SHAFT RUNOUT LIMIT .001" TIR

RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 8.59 INCHES
SOLID SHAFT HIGH THRUST
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
BEARING LIFE 26280 HOURS AT 1421 LB THRUST
UTD REPLACEMENT FOR 5KS213XAE6423

Performance Characteristics 1st Winding 1st Connection **Design: 21BD1152A**

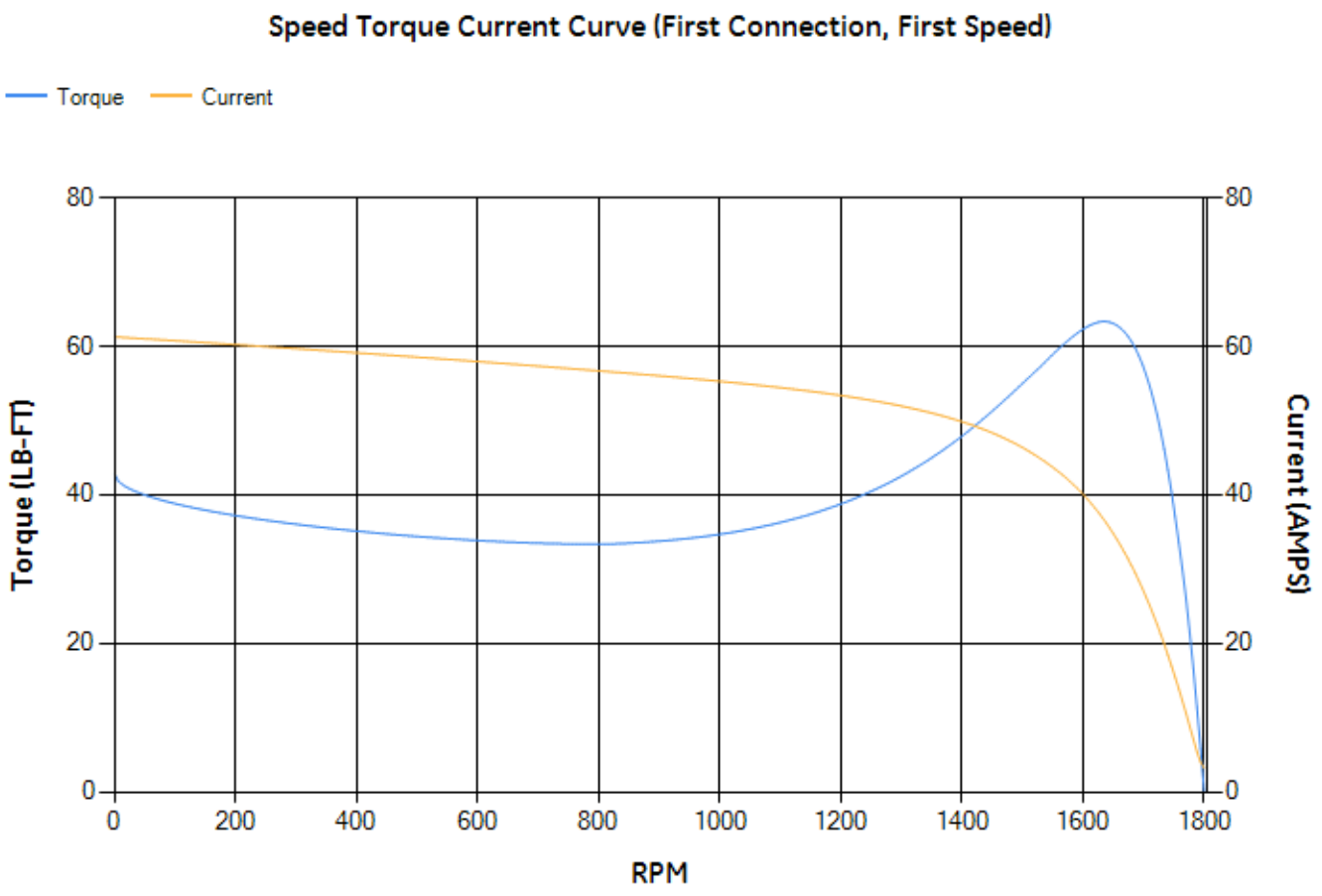
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.56	91.05	91.84	92.16	91.69	87.87	0.00
% PF	84.61	84.44	83.67	80.32	71.89	50.99	6.51
AMPS	11.45	10.5	9.14	7.11	5.33	3.92	3.21

TORQ(FL)#FT	22.25	**TORQ(LR)%FL**	192.51	**TORQ(BD)%FL**	282.9
AMPS(LR)	61.27	**PF AT START**	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 306 Lb-Ft Sq (12.88 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 120 seconds cold, 89 seconds hot. Rotor inertia is 1 Lb-Ft Sq (0.04 Kg-meter Sq).

Open Circuit A-C:	0.449	**Short Circuit D-C:**	0.013
Short Circuit A-C:	0.021	**X/R Ratio:**	4.935
Stator Slots:	36	**Rotor Slots:**	28



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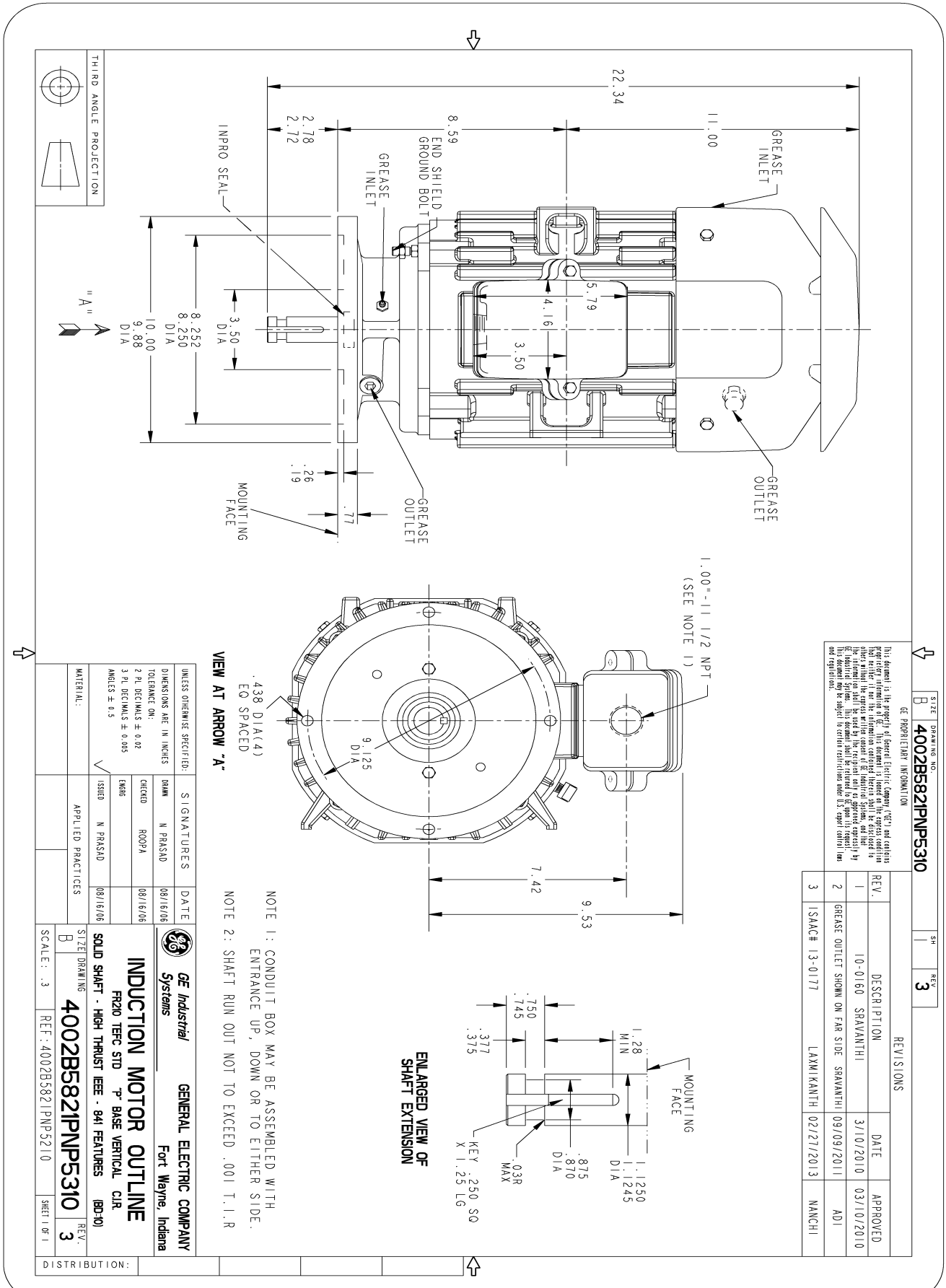
SIZE B
DRAWING NO. 4002B5821PNP5310
SH 1
REV. 3
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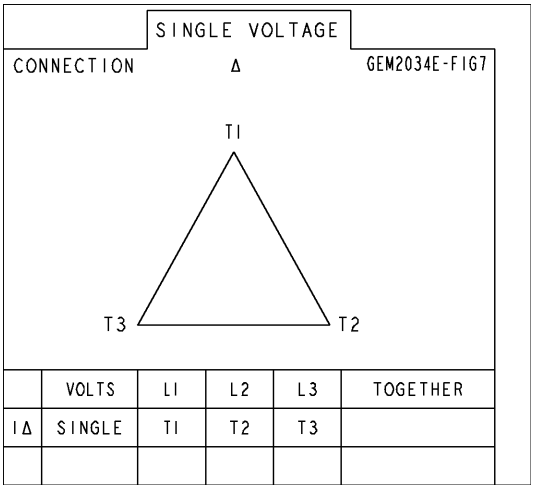
REVISIONS
REV. | DESCRIPTION | DATE | APPROVED
1 | 10-0160 SRAVANTHI | 3/10/2010 | 03/10/2010
2 | GREASE OUTLET SHOWN ON FAR SIDE SRAVANTHI | 09/09/2011 | ADI
3 | ISAAC# 13-0177 LAXMIKANTH | 02/27/2013 | NANCHI
THIRD ANGLE PROJECTION
22.34
11.00
8.59
2.78
2.72
INPRO SEAL
END SHIELD GROUND BOLT
GREASE INLET
GREASE OUTLET
5.79
4.16
3.50
8.252
8.250
DIA
3.50
DIA
10.00
9.88
DIA
.26
.19
.77
MOUNTING FACE
"A"
1.00"-11 1/2 NPT (SEE NOTE 1)
.438 DIA(4) EQ SPACED
9.125 DIA
7.42
9.53
VIEW AT ARROW "A"
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: SHAFT RUN OUT NOT TO EXCEED .001 T.I.R
ENLARGED VIEW OF SHAFT EXTENSION
1.28 MIN
1.1250
1.1245
DIA
.875
.870
DIA
.03R MAX
.750
.745
.377
.375
KEY .250 SQ X 1.25 LG
MOUNTING FACE
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCE ON:
2 PL DECIMALS ± 0.02
3 PL DECIMALS ± 0.005
ANGLES ± 0.5
MATERIAL:
APPLIED PRACTICES
SIGNATURES
DRAWN N PRASAD 08/16/06
CHECKED ROOPA 08/16/06
ENG'G
ISSUED N PRASAD 08/16/06
DATE
GE Industrial Systems
GENERAL ELECTRIC COMPANY
Fort Wayne, Indiana
INDUCTION MOTOR OUTLINE
FR210 TEFC STD "P" BASE VERTICAL C.J.R.
SOLID SHAFT - HIGH THRUST IEEE - 841 FEATURES (BD-10)
SIZE B
DRAWING 4002B5821PNP5310
REV. 3
SCALE: .3
REF: 4002B5821PNP5210
SHEET 1 OF 1
DISTRIBUTION:

Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6027PJ1	4004D5282SL1
Bearing	235A2503EJ01	235A2503AA01
Slinger/Inproseal	4002B5918CD2	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	