GE
Power Conversion

Product Information Packet

November 9, 2016

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

Model Number:	**5KS213XAE5724B**
Catalog Number:	**V770**
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5821PPP5341

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:	**5KS213XAE5724B**	**Estimated Weight:**	200 Lbs
Outline Drawing:	4002B5821PPP5341	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG1	**Enclosure:**	TEFC
Instruction Book:	GEK-95351	**Encl Construction:**	841
Design Code:	21BD0074AA	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L213LP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	89.5 %
Output Power:	7.5HP 5.6KW	**Guaranteed Efficiency:**	87.5
RPM:	3530	**3/4 Load Efficiency:**	90.1
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:**	5210
Alt Service Factor:	--	**Bearing - ODE:**	6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VERTICAL-841
PREMIUM EFFICIENT MOTOR
DE BRG 5210 ODE BRG 40BC02JP3
INLINE MOTOR
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:5KS213XAE5724B 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:

2P - LP 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 INLINE
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 589 LB THRUST

Performance Characteristics 1st Winding 1st Connection **Design: 21BD0074AA**

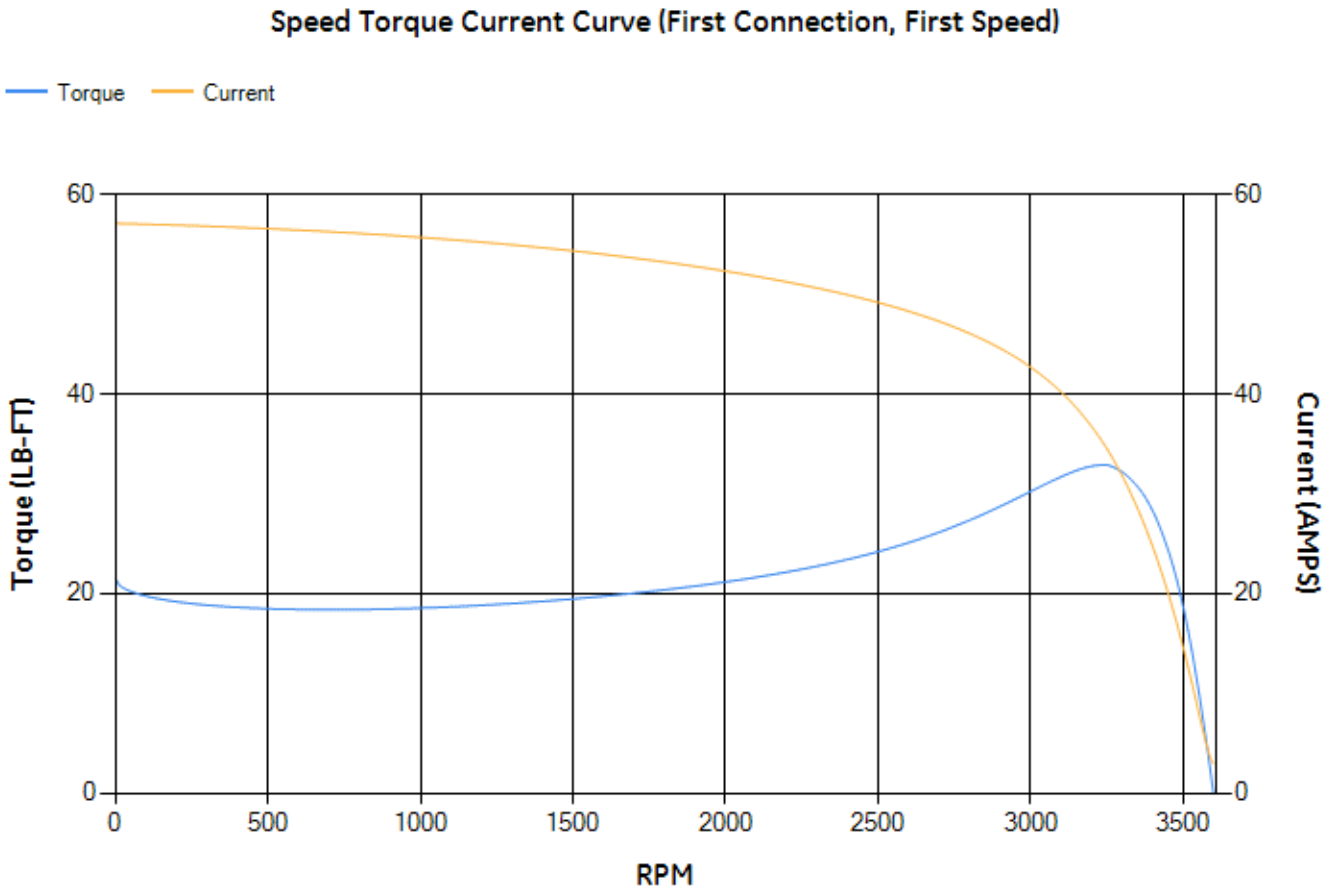
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.42	88.94	89.78	90.1	89.36	84.45	0.00
% PF	88.62	88.37	87.57	84.47	76.7	56.43	9.41
AMPS	11.2	10.27	8.92	6.92	5.12	3.68	2.93

TORQ(FL)#FT	11.16	**TORQ(LR)%FL**	192.83	**TORQ(BD)%FL**	292.52
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:	0.406	**Short Circuit D-C:**	0.01
Short Circuit A-C:	0.018	**X/R Ratio:**	3.858
Stator Slots:	36	**Rotor Slots:**	26



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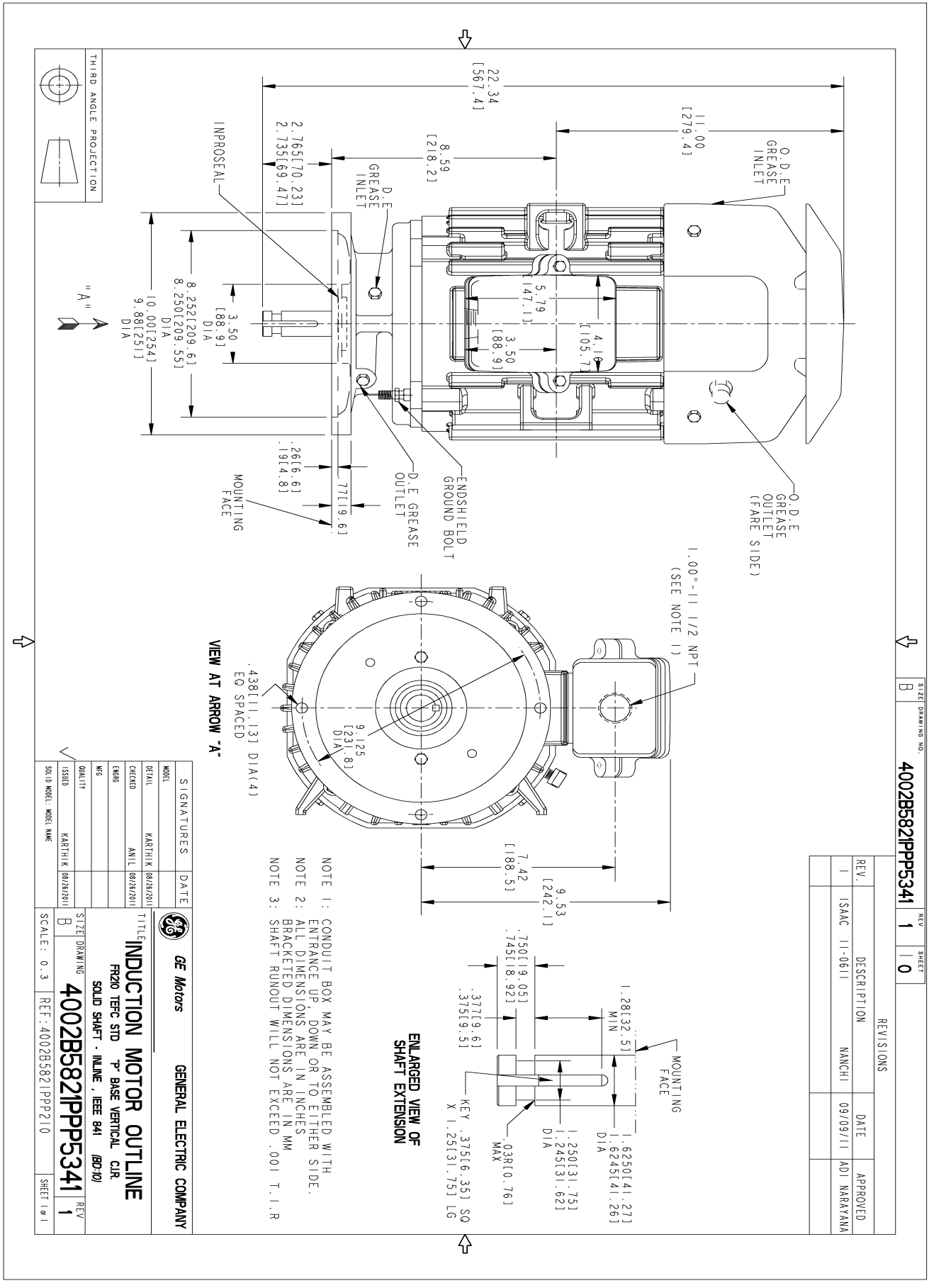
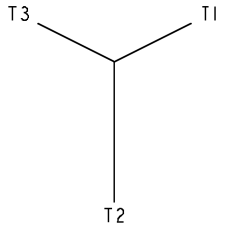

22.34 [567.4]
11.00 [279.4]
O.D.E GREASE INLET
8.59 [218.2]
D.E GREASE INLET
2.765[70.23]
2.735[69.47]
INPROSEAL
5.79 [147.1]
4.14 [105.7]
3.50 [88.9]
3.50 [88.9] DIA
8.252[209.6]
8.250[209.55] DIA
10.00[254]
9.88[251] DIA
.26[6.6]
.19[4.8]
.77[19.6]
MOUNTING FACE
D.E GREASE OUTLET
ENDSHIELD GROUND BOLT
O.D.E GREASE OUTLET (FARE SIDE)
"A"
1.00"-11 1/2 NPT (SEE NOTE 1)
9.125 [231.8] DIA
.438[11.13] DIA(4) EQ SPACED
VIEW AT ARROW "A"
7.42 [188.5]
9.53 [242.1]
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: ALL DIMENSIONS ARE IN INCHES BRACKETED DIMENSIONS ARE IN MM
NOTE 3: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R
ENLARGED VIEW OF SHAFT EXTENSION
1.28[32.5] MIN
MOUNTING FACE
1.6250[41.27]
1.6245[41.26] DIA
1.250[31.75]
1.245[31.62] DIA
.750[19.05]
.745[18.92]
.377[9.6]
.375[9.5]
.03R[0.76] MAX
KEY .375[6.35] SQ X 1.25[31.75] LG
THIRD ANGLE PROJECTION
SIZE B
DRAWING NO. 4002B5821PPP5341
REV 1
SHEET 1 0
REVISIONS
REV. | DESCRIPTION | DATE | APPROVED
1 | ISAAC 11-0611 | NANCHI | 09/09/11 | ADI NARAYANA
SIGNATURES
MODEL
DETAIL KARTHIK 08/26/2011
CHECKED ANIL 08/26/2011
ENGRG
MFG
QUALITY
ISSUED KARTHIK 08/26/2011
SOLID MODEL- MODEL NAME
GE Motors
GENERAL ELECTRIC COMPANY
TITLE INDUCTION MOTOR OUTLINE
FR210 TEFC STD "P" BASE VERTICAL C.I.R.
SOLID SHAFT - INLINE, IEEE 841 (BD-10)
SIZE B
DRAWING 4002B5821PPP5341
REV 1
SCALE: 0.3
REF: 4002B5821PPP210
SHEET 1 of 1

Connection Diagram

GEM2034E-FIG1

SINGLE VOLTAGE

CONNECTION Y GEM2034E-FIGI



	VOLTS	LI	L2	L3	TOGETHER
IY	SINGLE	TI	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6027PP1	4004D5282SL1
Bearing		
Slinger/Inproseal		

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G01
Fan Cover	

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	