GE
Power Conversion

Product Information Packet

January 13, 2017

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

Model Number:	**5KS213SAE230A**
Catalog Number:	**V982**
Instruction Manual:	GEK-95655
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5821PLP5210

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KS213SAE230A**	**Estimated Weight:**	200 Lbs
Outline Drawing:	4002B5821PLP5210	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG9	**Enclosure:**	TEFC
Instruction Book:	GEK-95655	**Encl Construction:**	SD
Design Code:	21BD1152A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L213HP10	**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:	230/460	**KVA Code:**	H
Hertz:	60	**Max KVAR:**	2.3
Amps - FL:	18.4/9.2	**Power Factor:**	83.5
Service Factor:	1.15	**Bearing - DE:**	6308ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
PREMIUM EFFICIENT MOTOR
HTR LDS H 115V 60W
SEVERE DUTY
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 0-60 HZ
IP55
SUITABLE FOR 190/380V, 50HZ
1460 RPM, 21.8/10.9A, 1.0SF

Additional Information:

4P - HP EXTN
C/BOX 55 CU IN-1.00 NPT
AUX LEADS EXIT WITH MOTOR LEADS
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 8.59 INCHES
SOLID SHAFT NORMAL THRUST
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 772 LB THRUST

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

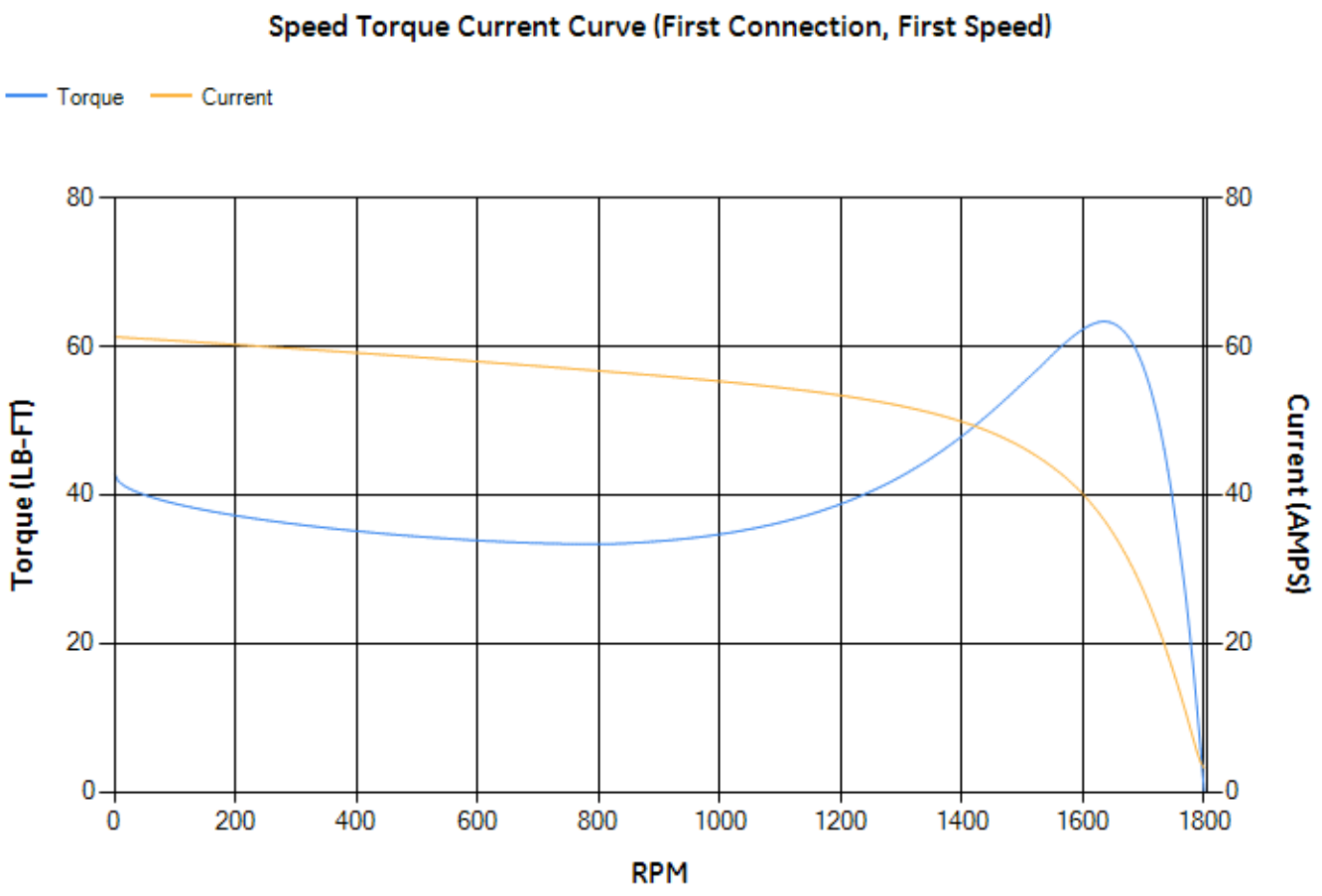
Marks:

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



Marks:

Model Number: 5KS213SAE230A

January 13, 2017

NAME: I030I6817 OBJECT: 4002B5821PLP5210 DATE: I0-Jun-03 20:33:36

CAD NO.	4002B5821PLP5210
REF.	4002B5821PLP210
PLOT SCALE	.3

GE Motors

PETERBOROUGH MOTOR PLANT

4002B5821PLP5210

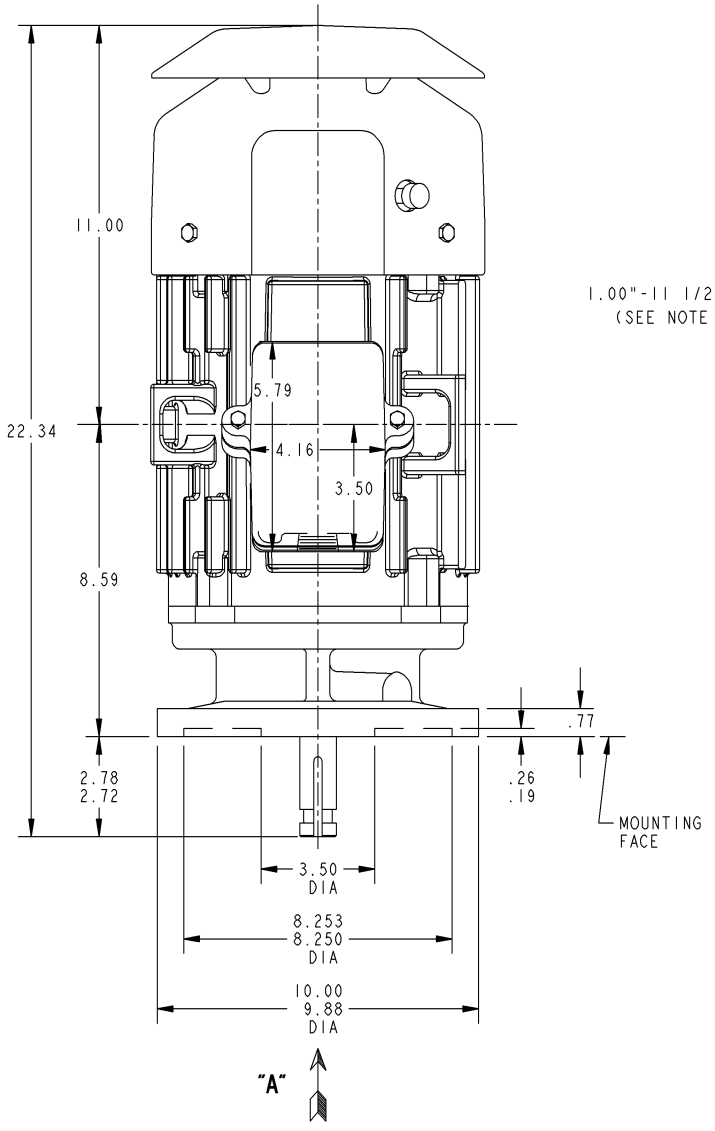
CONT ON SHT. - SHT.NO. I

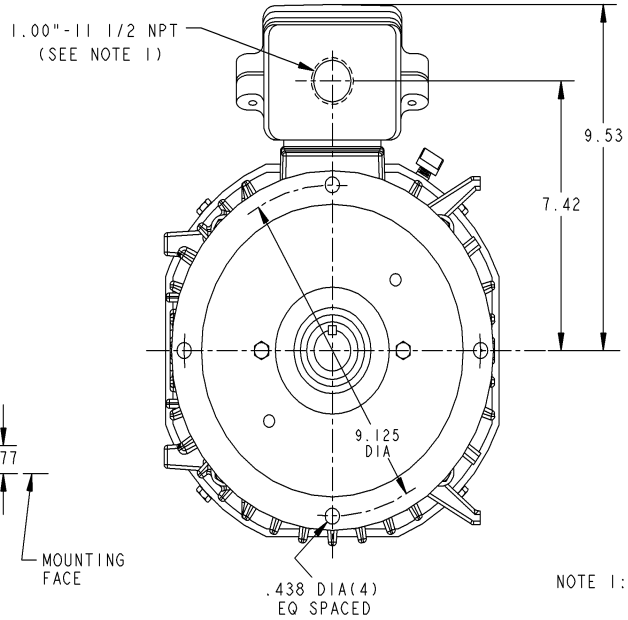
TITLE

INDUCTION MOTOR OUTLINE

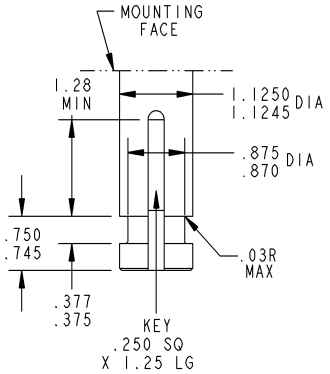
FIRST MADE FOR FR210 TEFC STANDARD "P" BASE VERTICAL CIR95

SOLID SHAFT - NORMAL THRUST (BD=I0)





VIEW AT ARROW "A"



ENLARGED VIEW OF SHAFT EXTENSION

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.

REV	DESCRIPTION	DATE	INT'L

CAD DRAWING - NO MANUAL REVISIONS PERMITTED

PRINTS TO

18K15

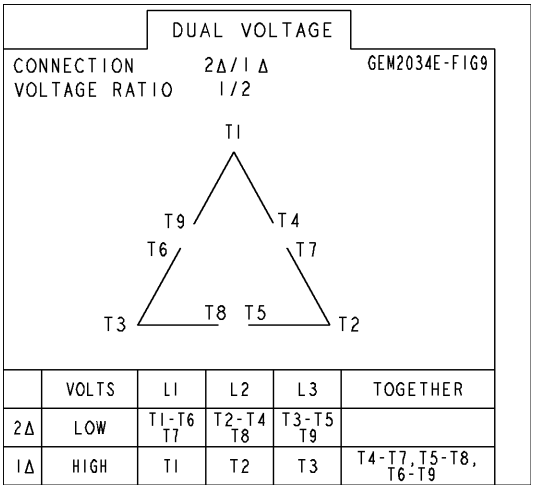
	NAME	DATE
DRAWN	BHARATHI	06/10/03
CHECKED	ADINARAYANA	06/10/03

4002B5821PLP5210

CONT ON SHT. - SHT.NO. I

Connection Diagram

GEM2034E-FIG9

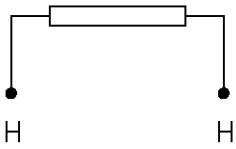


	VOLTS	L1	L2	L3	TOGETHER
2Δ	LOW	T1-T6 T7	T2-T4 T8	T3-T5 T9	
1Δ	HIGH	T1	T2	T3	T4-T7, T5-T8, T6-T9

Heater Connection

3027JE-1

FIG. 1
HEATER CONN.



CONTROL	L1	L2
VOLTAGE ONLY	H	H