

# Product Information Packet

January 13, 2017

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

<b>Model Number:</b>	<b>5KS215SAE184B</b>
<b>Catalog Number:</b>	<b>V963</b>
<b>Instruction Manual:</b>	GEK-95655
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	4002B5821PLP5210

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS215SAE184B</b>	<b>Estimated Weight:</b>	220 Lbs
<b>Outline Drawing:</b>	4002B5821PLP5210	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG3	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEK-95655	<b>Encl Construction:</b>	SD
<b>Design Code:</b>	21BD0121A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L215HP10	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	90.2 %
<b>Output Power:</b>	10HP 7.4KW	<b>Guaranteed Efficiency:</b>	88.5
<b>RPM:</b>	3520	<b>3/4 Load Efficiency:</b>	91.0
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	H
<b>Hertz:</b>	60	<b>Max KVAR:</b>	2.2
<b>Amps - FL:</b>	23.0/11.5	<b>Power Factor:</b>	90.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6308ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	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,  
2875RPM, 27.8/13.9A, 1.0SF

**Additional Information:**

2P - 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 620 LB THRUST

**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD0121A**

**Marks:**

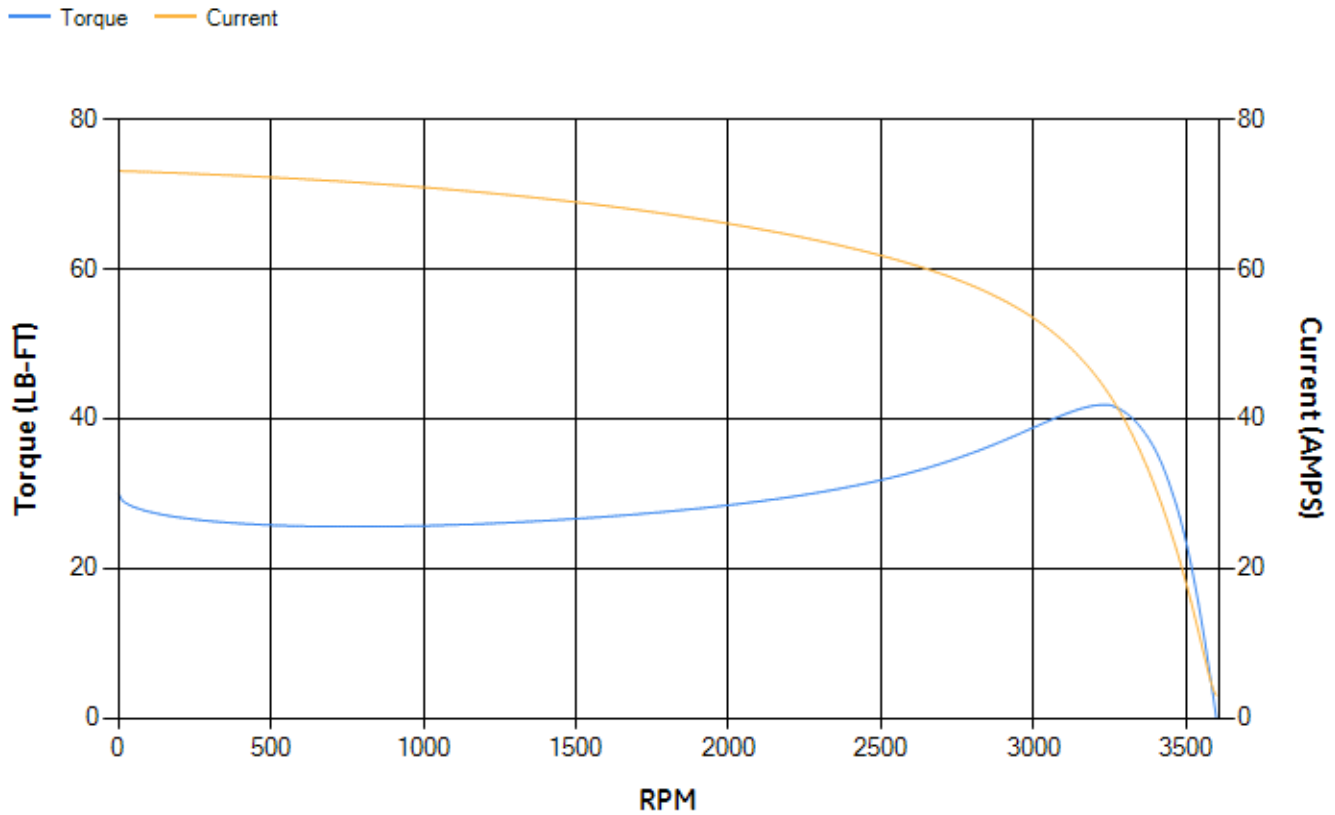
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.61	89.27	90.32	91.04	90.92	87.4	0.00
% PF	90.02	90.09	89.84	88.02	82.4	64.49	9.22
AMPS	14.67	13.38	11.52	8.76	6.25	4.15	3.01

TORQ(FL)#FT	14.91	TORQ(LR)%FL	201.12	TORQ(BD)%FL	278.54
AMPS(LR)	73.1	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 75 Lb-Ft Sq (3.16 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 35 seconds. Safe stall time at 100% voltage is 67 seconds cold, 42 seconds hot. Rotor inertia is 0.39 Lb-Ft Sq (0.02 Kg-meter Sq).

Open Circuit A-C:	0.47	Short Circuit D-C:	0.01
Short Circuit A-C:	0.017	X/R Ratio:	3.896
Stator Slots:	36	Rotor Slots:	26

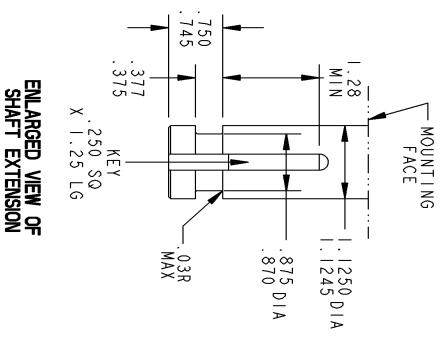
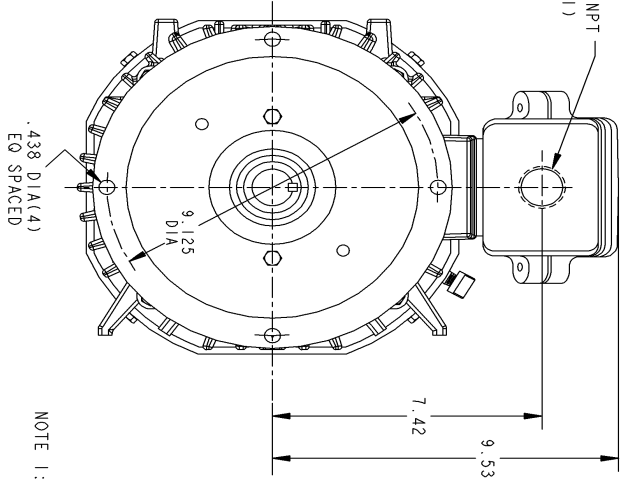
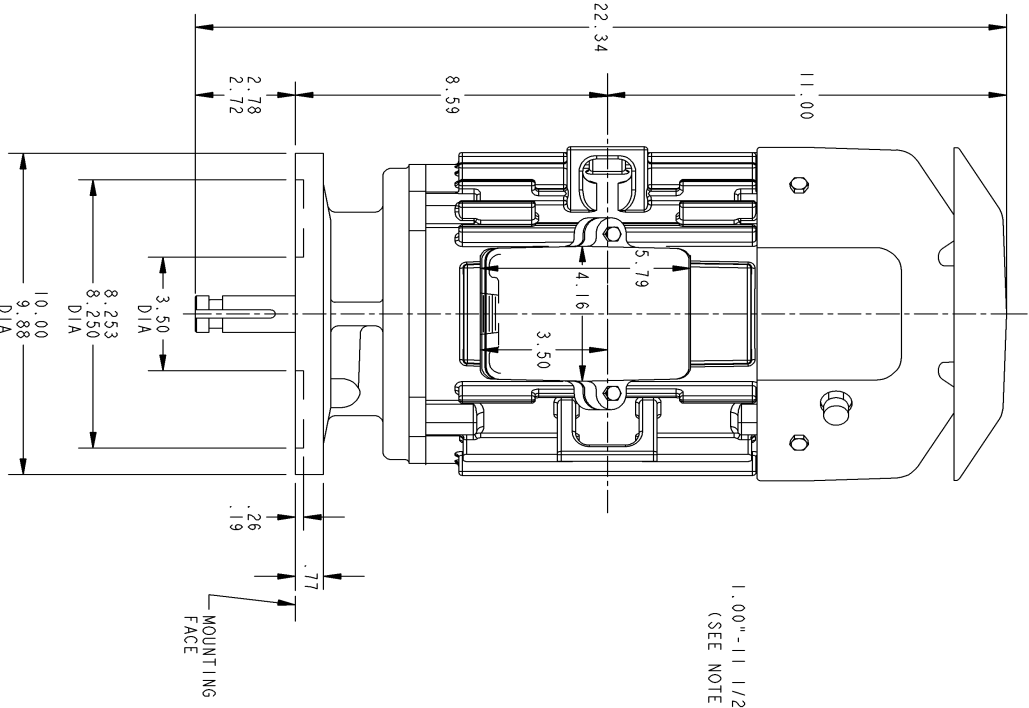
**Speed Torque Current Curve (First Connection, First Speed)**



NAME: 103016817 OBJECT: 4002B5821PLP5210 DATE: 10-Jun-03 20:33:36

Marks:

CAD NO. 4002B5821PLP5210		GE Motors	PETERBOROUGH MOTOR PLANT	4002B5821PLP5210
REF. 4002B5821PLP210				
PLOT SCALE 3	INDUCTION MOTOR OUTLINE		TITLE	
	FIRST MADE FOR FR210 TEFC STANDARD "P" BASE VERTICAL CIR95		SOLID SHAFT - NORMAL THRUST (BD=10)	



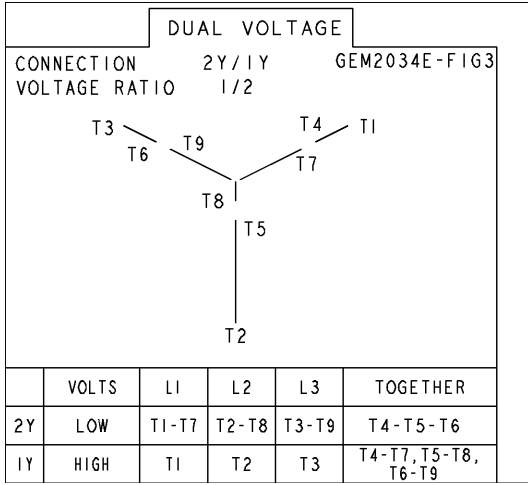
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.

VIEW AT ARROW "A"

REV	DESCRIPTION	DATE	INT'L
CAD DRAWING - NO MANUAL REVISIONS PERMITTED			
PRINTS TO			
18K15	NAME	DATE	
DRAWN	SHARATHI	08/10/03	
CHECKED	ADIKRAXAN	08/10/03	
4002B5821PLP5210			
CONT. ON SHIT. -			
SHT. NO. 1			

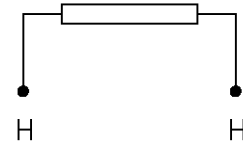
Marks:

**Connection Diagram**  
**GEM2034E-FIG3**



**Heater Connection**  
**3027JE-1**

FIG. 1  
HEATER CONN.



CONTROL	L1	L2
VOLTAGE ONLY	H	H