



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

November 18, 2020

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

<b>Model Number:</b>	<b>5KS213DAE6064A</b>
<b>Catalog Number:</b>	<b>V4008</b>
<b>Instruction Manual:</b>	GEK-95353
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Outline Drawing:</b>	4002B5821NMP5210

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<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>5KS213DAE6064A</b>
<b>Outline Drawing:</b>	4002B5821NMP5210
<b>Connection Diagram:</b>	GEM2034E-FIG3
<b>Instruction Book:</b>	GEK-95353
<b>Design Code:</b>	21BD1023A
<b>Type:</b>	KS
<b>Frame:</b>	L213TP10
<b>Phases:</b>	3
<b>Poles:</b>	4
<b>Output Power:</b>	5HP 3.7KW
<b>RPM:</b>	1770
<b>Voltage:</b>	230/460
<b>Hertz:</b>	60
<b>Amps - FL:</b>	13.0/6.5
<b>Service Factor:</b>	1.15
<b>Alt Service Factor:</b>	--

<b>Estimated Weight:</b>	172 Lbs
<b>Time Rating:</b>	CONT
<b>Enclosure:</b>	WPI
<b>Encl Construction:</b>	OPEN
<b>Ambient Max(°C):</b>	40
<b>Alt Ambient Max(°C):</b>	--
<b>Insulation Class:</b>	H
<b>NEMA Design:</b>	B
<b>Nominal Efficiency:</b>	91.0 %
<b>Guaranteed Efficiency:</b>	89.5 %
<b>3/4 Load Efficiency:</b>	--
<b>KVA Code:</b>	J
<b>Max KVAR:</b>	2.1
<b>Power Factor:</b>	79.5
<b>Bearing - DE:</b>	7308
<b>Bearing - ODE:</b>	6208-2ZC3

Enclosure is Weather Protected One

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**Stamped Nameplate Notes:**

PREMIUM EFFICIENT MOTOR  
 NEMA ENCL WPI AND CSA ENCL DP  
 ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3  
 HTR LDS HE1-HE2 115V 60W  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:  
 1.0 SF VAR TORQUE RANGE 5-60 HZ  
 SUITABLE FOR 3HP, 190/380V,  
 50 HZ WITH 10/5 AMPS AND 1470 RPM AT 1.0 SF



**Additional Information:**

4P - TP 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  
HOLLOW SHAFT HIGH THRUST  
NON REV CPLG W/BX=1.00" KW=0.25"  
OIL RESISTANT SLEEVING ON LEADS  
BEARING LIFE 8760 HOURS AT 2071 LB THRUST



**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD1023A**

**Marks:**

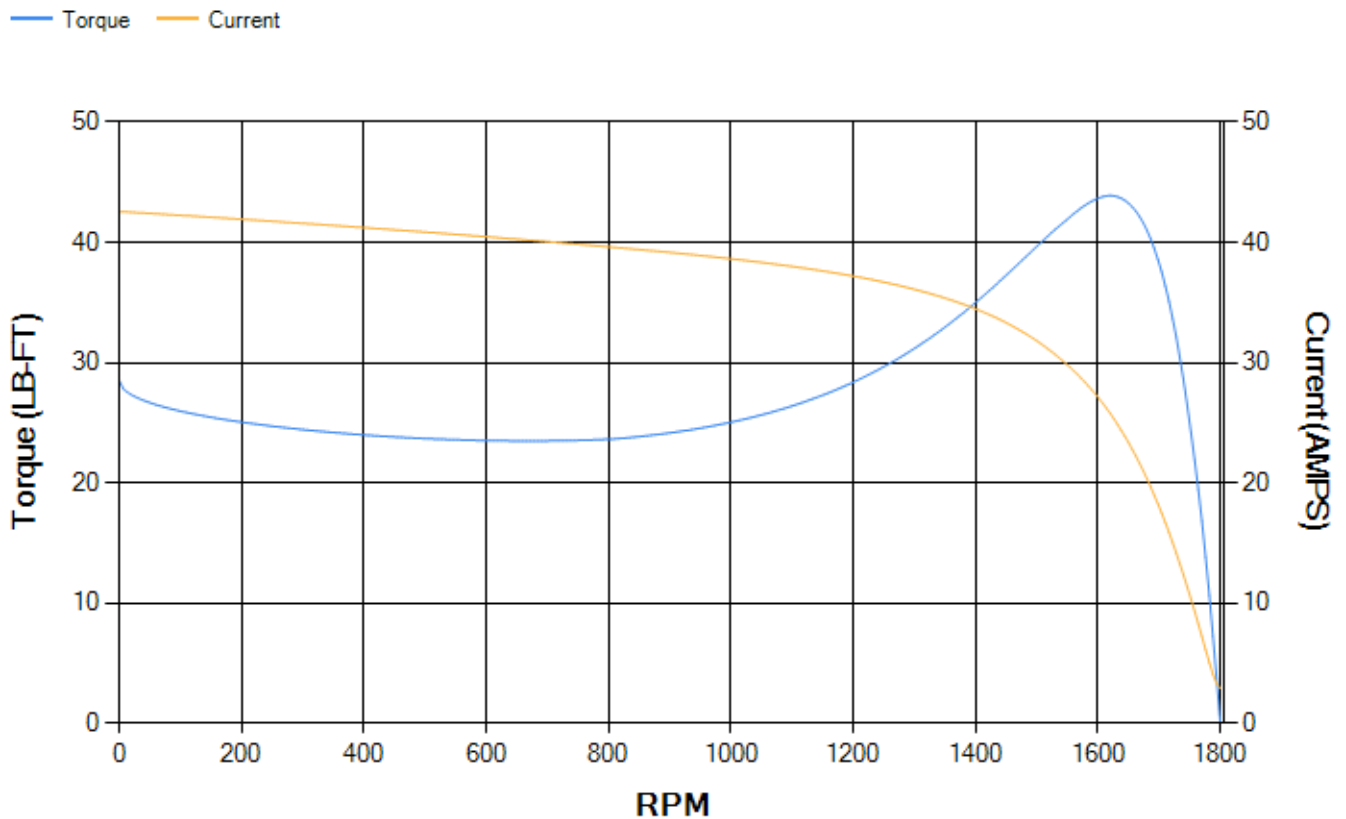
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.9	90.35	91.1	91.31	90.58	86.03	0.00
% PF	81.71	81.03	79.36	74.07	63.14	41.49	5.72
AMPS	7.96	7.35	6.47	5.19	4.09	3.28	2.9

<b>TORQ(FL)#FT</b>	14.83	<b>TORQ(LR)%FL</b>	192.03	<b>TORQ(BD)%FL</b>	294.15
<b>AMPS(LR)</b>	42.57	<b>PF AT START</b>	0.42		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 204 Lb-Ft Sq (8.59 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 51 seconds. Safe stall time at 100% voltage is 113 seconds cold, 93 seconds hot. Rotor inertia is 0.56 Lb-Ft Sq (0.02 Kg-meter Sq).

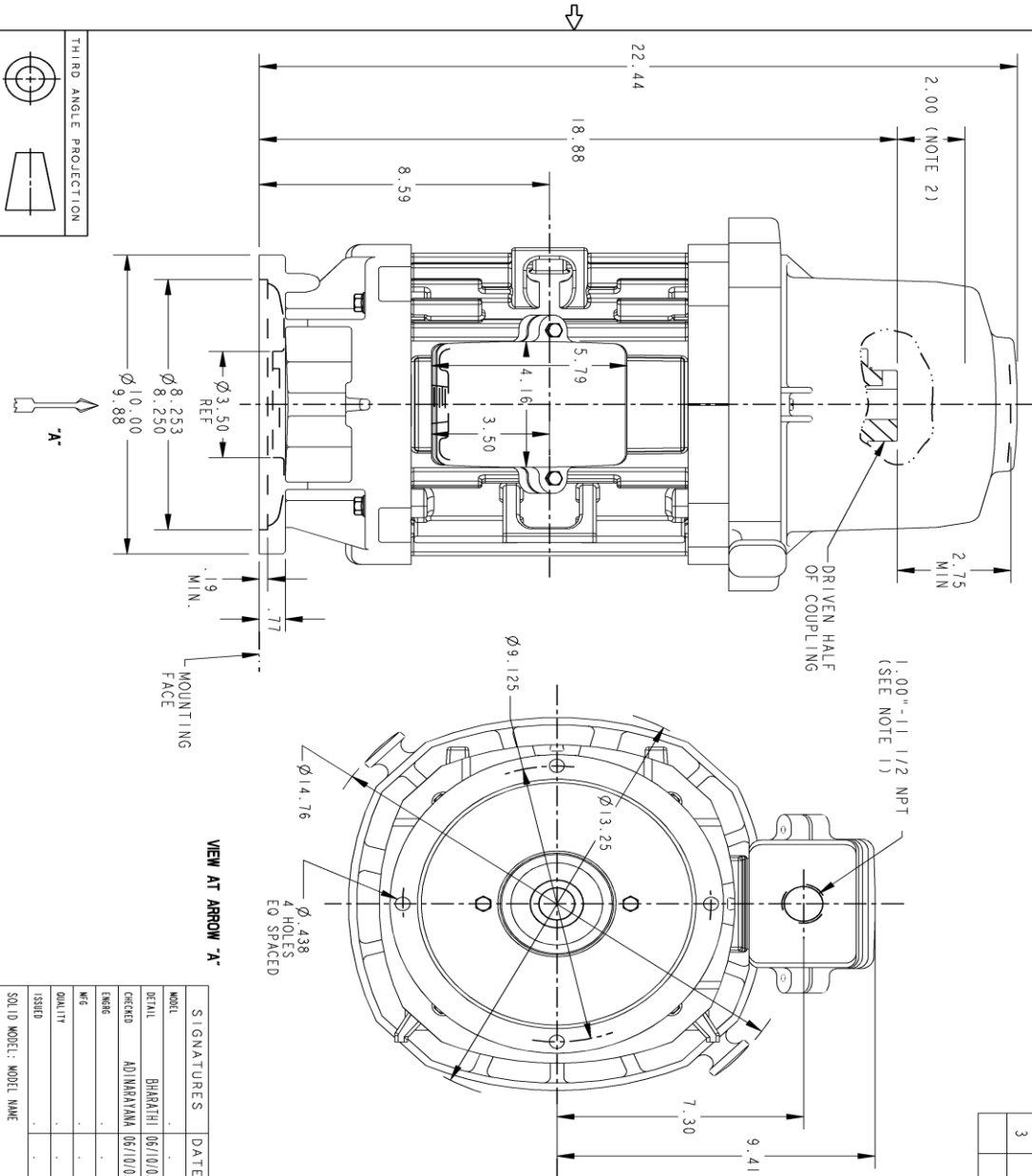
<b>Open Circuit A-C:</b>	0.344	<b>Short Circuit D-C:</b>	0.011
<b>Short Circuit A-C:</b>	0.021	<b>X/R Ratio:</b>	4.291
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

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



Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN, OR TO EITHER SIDE OF PUMP SHAFT & LOCKING NUT ABOVE TOP  
 NOTE 2: THE TOTAL HEIGHT OF PUMP SHAFT & LOCKING NUT ABOVE TOP OF COUPLING, MUST NOT EXCEED THIS DIMENSION.  
 NOTE 3: ALL DIMENSIONS ARE IN INCHES



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC NO: #09-0117	02/12/09	RAGHU
2	ISAAC NO: #16-1067	12/28/16	RAVI
3	ISAAC #18-0869	10/23/18	SHAR

BORE DIA.	"B" X "	"W"	"D"
1.002			
1.001			
.939	.250		.125
.938			
.877			
.876			
.752	.188		.094
.751			
1.002			
1.001			
.939	.250		.125
.938			
.877			
.876			
.752	.188		.094
.751			

**GE INDUSTRIAL MOTORS**  
 a Wolog company

**INDUCTION MOTOR OUTLINE**  
 FR210 WP-1 P-BASE VERTICAL  
 HOLLOW SHAFT - HIGH THRUST

4002B5821NMP5210

SCALE: .3 REF. NO. . . . .

SIGNATURES DATE

MODEL BHARATHI 06/10/03

DETAIL ADINARAYANA 06/10/03

ENGR

WEG

QUALITY

ISSUED

SOLID MODEL MODEL NAME

TITLE

SIZE DRAWING

REV

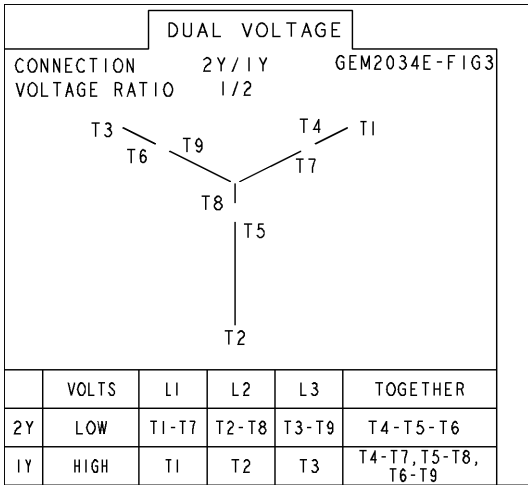
SHEET 1 OF 1

SIZE DRAWING NO. 4002B5821NMP5210 003

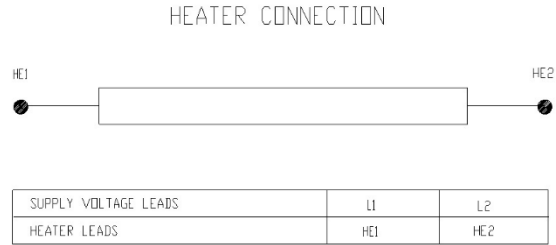
REV SHEET 1

Marks:

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



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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6024PA1	128D6025PA1
Bearing	235A2503EJ01	235A2503AA01
Slinger/Inproseal	235A2300FL1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

