



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

# Product Technical Information

November 25, 2020

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

<b>Model Number:</b>	<b>5KS254DAE6050A</b>
<b>Catalog Number:</b>	<b>V4012</b>
<b>Instruction Manual:</b>	GEK-95353
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5825NSP5216

## 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>5KS254DAE6050A</b>
<b>Outline Drawing:</b>	4002B5825NSP5216
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Instruction Book:</b>	GEK-95353
<b>Design Code:</b>	25BD1120A
<b>Type:</b>	KS
<b>Frame:</b>	L254TP16
<b>Phases:</b>	3
<b>Poles:</b>	4
<b>Output Power:</b>	15HP 11.1KW
<b>RPM:</b>	1775
<b>Voltage:</b>	230/460
<b>Hertz:</b>	60
<b>Amps - FL:</b>	36.0/18.0
<b>Service Factor:</b>	1.15
<b>Alt Service Factor:</b>	--

<b>Estimated Weight:</b>	280 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>	93.0 %
<b>Guaranteed Efficiency:</b>	91.7 %
<b>3/4 Load Efficiency:</b>	--
<b>KVA Code:</b>	G
<b>Max KVAR:</b>	4.9
<b>Power Factor:</b>	84.0
<b>Bearing - DE:</b>	7309
<b>Bearing - ODE:</b>	6209-2ZC3

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 10HP, 190/380V,  
 50 HZ WITH 29.8/14.9AMPS AND 1480 RPM AT 1.0 SF



**Additional Information:**

4P - TP EXTN  
C/BOX 137 CU IN-1.25 NPT  
AUX LEADS EXIT WITH MOTOR LEADS  
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &  
CENTER OF GRAVITY 10.75 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 2575 LB THRUST



**Performance Characteristics**

1st Winding 1st Connection

**Design: 25BD1120A**

**Marks:**

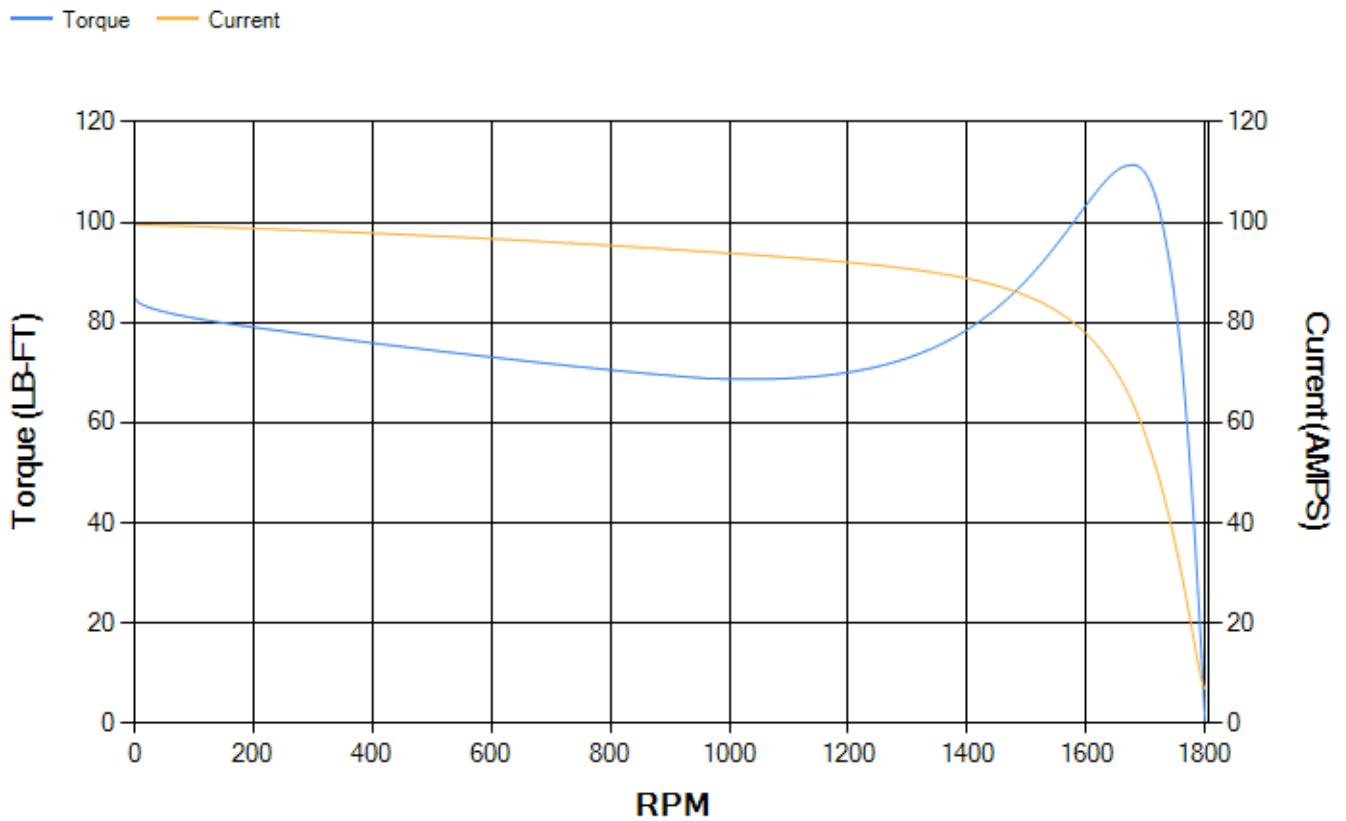
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.04	92.45	93.16	93.46	93.19	90.22	0.00
% PF	85.57	85.17	84.04	80.02	70.62	48.52	4.76
AMPS	22.28	20.51	17.93	14.08	10.67	8.02	6.77

<b>TORQ(FL)#FT</b>	44.35	<b>TORQ(LR)%FL</b>	191.62	<b>TORQ(BD)%FL</b>	250.39
<b>AMPS(LR)</b>	99.56	<b>PF AT START</b>	0.45		

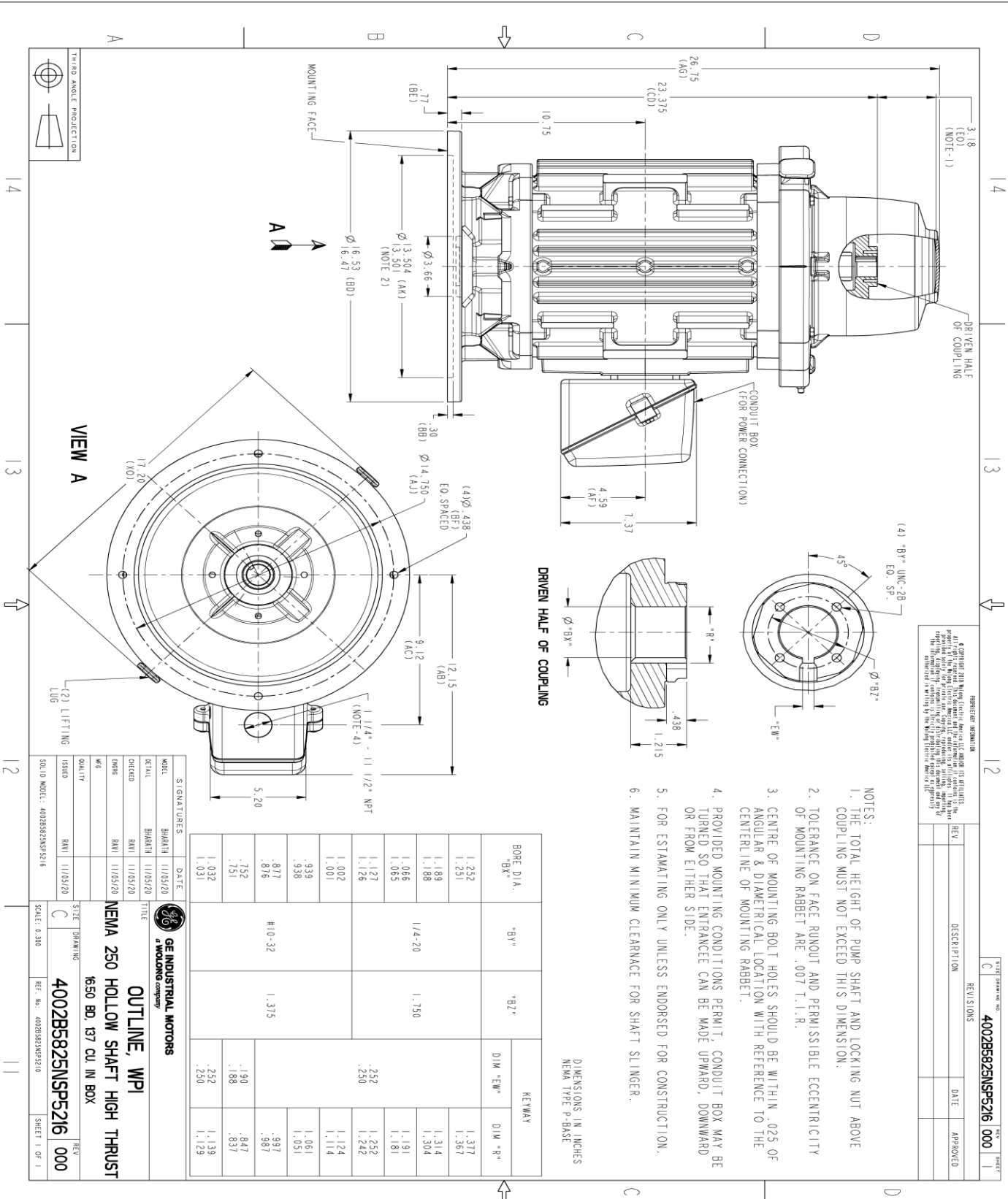
This motor is capable of two cold or one hot start with a maximum connected load inertia of 529 Lb-Ft Sq (22.27 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 49 seconds. Safe stall time at 100% voltage is 108 seconds cold, 87 seconds hot. Rotor inertia is 2.29 Lb-Ft Sq (0.1 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.509	<b>Short Circuit D-C:</b>	0.014
<b>Short Circuit A-C:</b>	0.027	<b>X/R Ratio:</b>	5.15
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

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



Marks:



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REV.	DESCRIPTION	DATE	APPROVED

- NOTES:
1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
  2. TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 T.I.R.
  3. CENTRE OF MOUNTING BOLT HOLES SHOULD BE WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITH REFERENCE TO THE CENTERLINE OF MOUNTING RABBIT.
  4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
  5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
  6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

DIMENSIONS IN INCHES  
 NEMA TYPE P-BASE

BORE DIA. "BX"	"B1"	"B2"	KEYWAY	
			D1W "E"	D1W "R"
1.252				1.377
1.251				1.367
1.189				1.314
1.188	1/4-20	1.750		1.304
1.066				1.191
1.065				1.181
1.127			.252	1.252
1.126			.250	1.242
1.002				1.124
1.001				1.114
.939				1.061
.877		1.375		.997
.752	#10-32			.847
.751				.837
1.032				1.139
1.031				1.129

**GE INDUSTRIAL MOTORS**  
 a WOLONG company

**OUTLINE, WPI**  
 NEMA 250 HOLLOW SHAFT HIGH THRUST  
 1650 BD, 137 CU, IN BOX

4002B5825NSP5216  
 000

SCALE: 0.300

SHEET 1 OF 1

SIGNATURES	DATE
SHAFT	11/05/20
RETAIL	11/05/20
CHECKED	11/05/20
DESIGN	11/05/20
W/E	
QUALITY	



Marks:

**Connection Diagram**  
**GEM2034E-FIG9**



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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6126PA1	128D6128PA1
Bearing	235A2507AC01	235A2507EE01
Slinger/Inproseal	235A2300FL3	

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

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

