GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

November 26, 2020

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

Model Number:	**5KS254DAE6049A**
Catalog Number:	**V4011**
Instruction Manual:	GEK-95353
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5825NSP5210

Accessory Connection Diagrams

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

Table of Contents

Marks:

MODEL NUMBER:	**5KS254DAE6049A**	**Estimated Weight:**	280 Lbs
Outline Drawing:	4002B5825NSP5210	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG9	**Enclosure:**	WPI
Instruction Book:	GEK-95353	**Encl Construction:**	OPEN
Design Code:	25BD1120A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L254TP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	93.0 %
Output Power:	15HP 11.1KW	**Guaranteed Efficiency:**	91.7 %
RPM:	1775	**3/4 Load Efficiency:**	--
Voltage:	230/460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	4.9
Amps - FL:	36.0/18.0	**Power Factor:**	84.0
Service Factor:	1.15	**Bearing - DE:**	7309
Alt Service Factor:	--	**Bearing - ODE:**	6209-2ZC3

Enclosure is Weather Protected One

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**

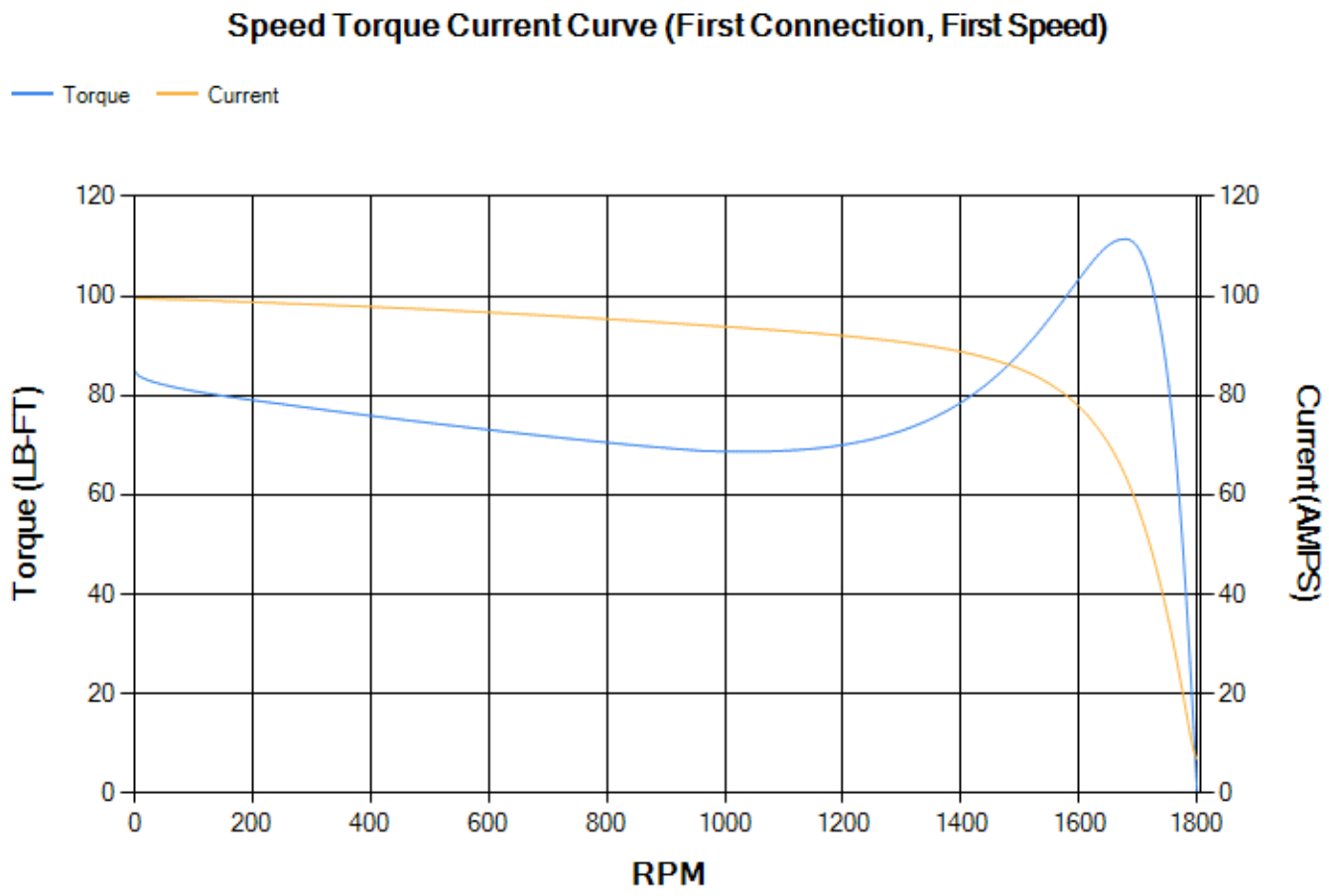
Marks:

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

TORQ(FL)#FT	44.35	**TORQ(LR)%FL**	191.62	**TORQ(BD)%FL**	250.39
AMPS(LR)	99.56	**PF AT START**	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).

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



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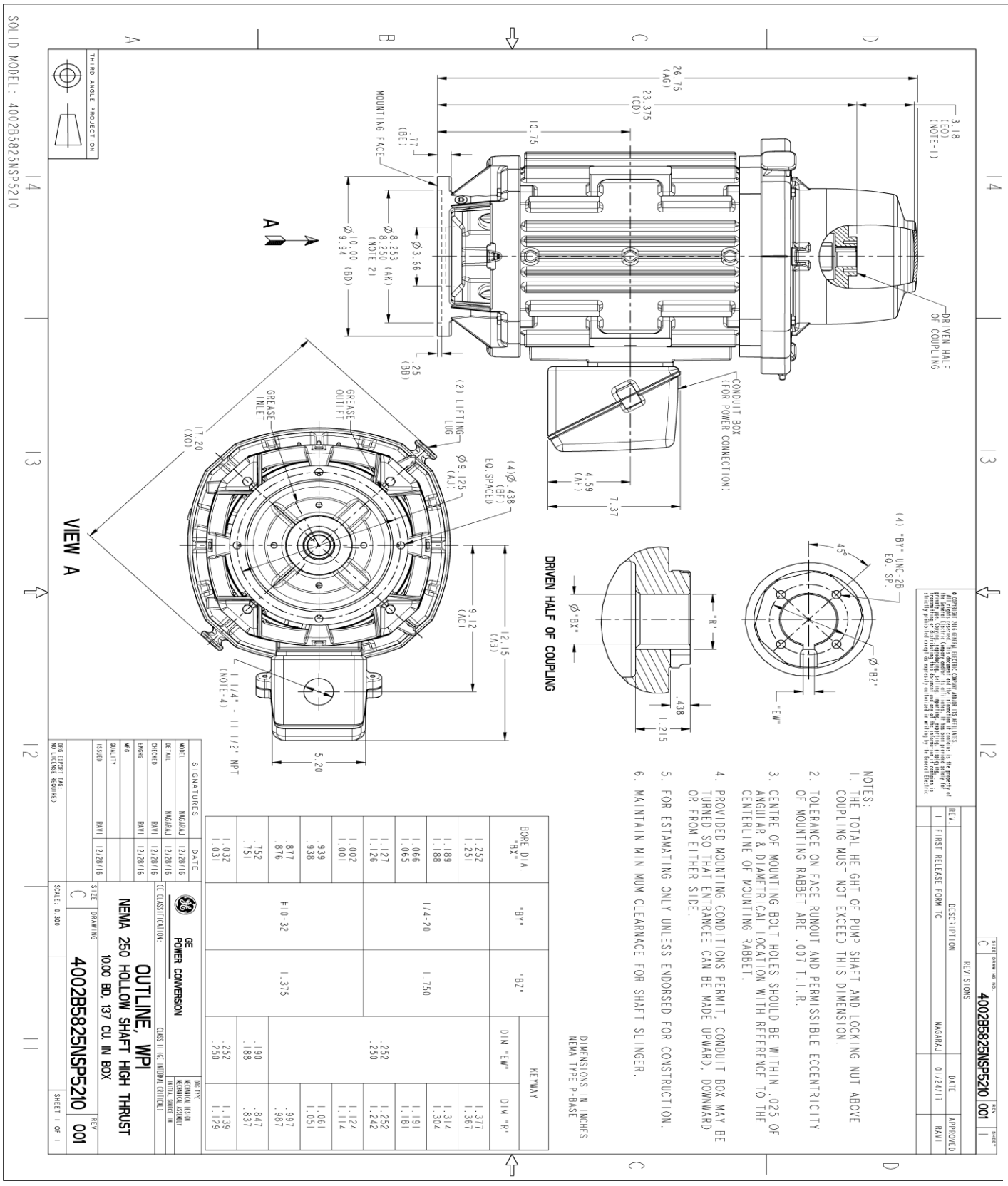


NOTES:
1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
2. TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBET ARE .007 T.I.R.
3. CENTRE OF MOUNTING BOLT HOLES SHOULD BE WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITH REFERENCE TO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

DIMENSIONS IN INCHES
NEMA TYPE P-BASE

BORE DIA. "BX"	"BY"	"BZ"	KEYWAY DIM "EW"	KEYWAY DIM "R"
1.252 1.251	1/4-20	1.750	.252 .250	1.377 1.367
1.189 1.188				1.314 1.304
1.066 1.065				1.191 1.181
1.127 1.126				1.252 1.242
1.002 1.001				1.124 1.114
.939 .938				1.061 1.051
.877 .876	#10-32	1.375		.997 .987
.752 .751			.190 .188	.847 .837
1.032 1.031			.252 .250	1.139 1.129

REV.	DESCRIPTION	DATE	APPROVED
1	FIRST RELEASE FORM TC	01/24/17	RAVI

SIZE	DRAWING NO.	REV
C	4002B5825NSP5210	001

SHEET 1

SIGNATURES		DATE
MODEL	NAGARAJ	12/28/16
DETAIL	NAGARAJ	12/28/16
CHECKED	RAVI	12/28/16
ENGRG	RAVI	12/28/16
MFG		
QUALITY		
ISSUED	RAVI	12/28/16

DOE EXPORT RELATED
NO LICENSE REQUIRED

GE POWER CONVERSION

GE CLASSIFICATION: CLASS I (GE INTERNAL CRITICAL)

DRG TYPE: MECHANICAL DESIGN / MECHANICAL ASSEMBLY / INITIAL SOURCE: YM

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

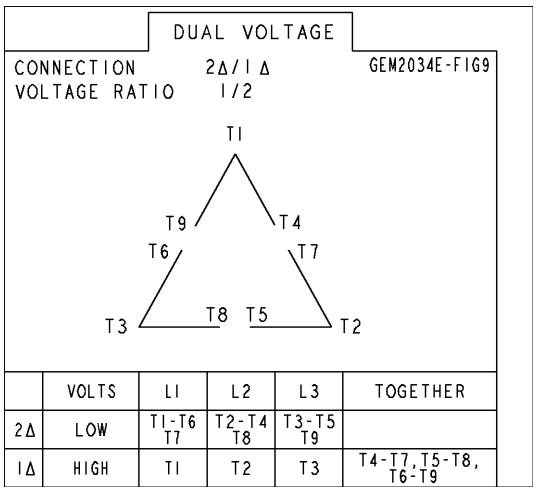
SIZE: C | DRAWING: 4002B5825NSP5210 | REV: 001

SCALE: 0.300 | SHEET 1 OF 1

Marks:

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-1C

SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6124PA1	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	