GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

April 1, 2021

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

Model Number:	**5KE256DAE6020C**
Catalog Number:	**VF102**
Instruction Manual:	GEK-95353
Connection Diagram:	GEM2034E-FIG254
Outline Drawing:	4002B5825NSP5210

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	**5KE256DAE6020C**	**Estimated Weight:**	315 Lbs
Outline Drawing:	4002B5825NSP5210	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG254	**Enclosure:**	WPI
Instruction Book:	GEK-95353	**Encl Construction:**	OPEN
Design Code:	25BD1320A	**Ambient Max(°C):**	40
Type:	KE	**Alt Ambient Max(°C):**	--
Frame:	L256TP10	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	91.0 %
Output Power:	20HP 14.8KW	**Guaranteed Efficiency:**	--
RPM:	1770	**3/4 Load Efficiency:**	--
Voltage:	230/460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	7.2
Amps - FL:	50.2/25.1	**Power Factor:**	82.0
Service Factor:	1.15	**Bearing - DE:**	7309
Alt Service Factor:	--	**Bearing - ODE:**	6209-2ZC3

Enclosure is Weather Protected One

Stamped Nameplate Notes:
NEMA ENCL WPI AND CSA ENCL DP
ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:
1.0 SF VAR TORQUE RANGE 5-60 HZ

Additional Information:

4P - TP EXTN - WYE START DELTA RUN
C/BOX 137 CU IN-1.25 NPT
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 2574 LB THRUST
FIRE PUMP MOTOR
WYE START DELTA RUN AT BOTH VOLTAGES
PART WINDING START AT LOW VOLTAGE ONLY

Performance Characteristics 1st Winding 1st Connection **Design: 25BD1320A**

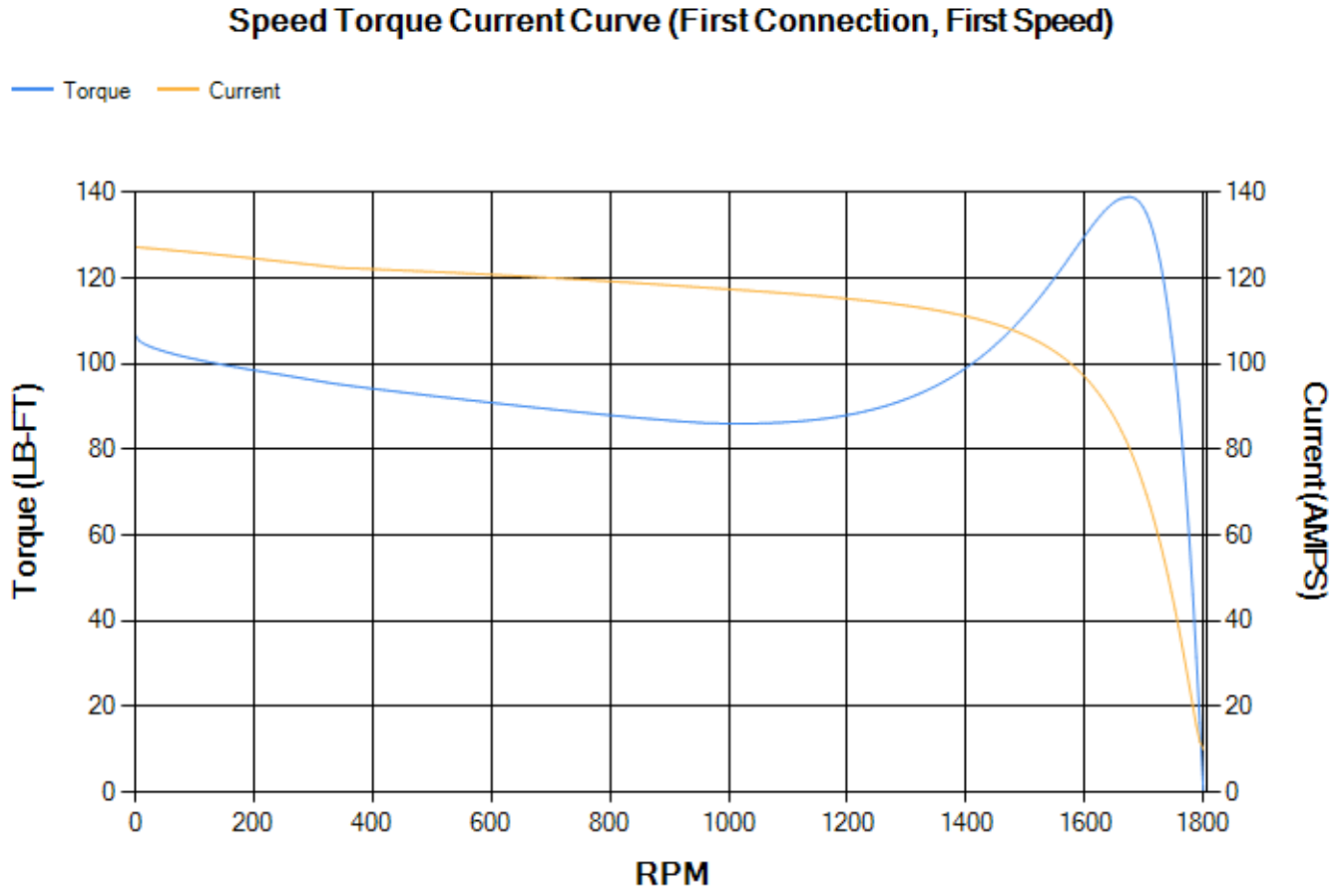
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.79	91.34	92.23	92.8	92.74	89.92	0.00
% PF	83.72	83.29	82.05	77.6	67.44	45.02	4.28
AMPS	30.78	28.3	24.74	19.5	14.96	11.56	10.05

TORQ(FL)#FT	59.29	**TORQ(LR)%FL**	180.05	**TORQ(BD)%FL**	233.5
AMPS(LR)	127.31	**PF AT START**	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 448 Lb-Ft Sq (18.86 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 33 seconds. Safe stall time at 100% voltage is 74 seconds cold, 52 seconds hot. Rotor inertia is 2.08 Lb-Ft Sq (0.09 Kg-meter Sq).

Open Circuit A-C:	0.394	**Short Circuit D-C:**	0.012
Short Circuit A-C:	0.024	**X/R Ratio:**	4.541
Stator Slots:	48	**Rotor Slots:**	40



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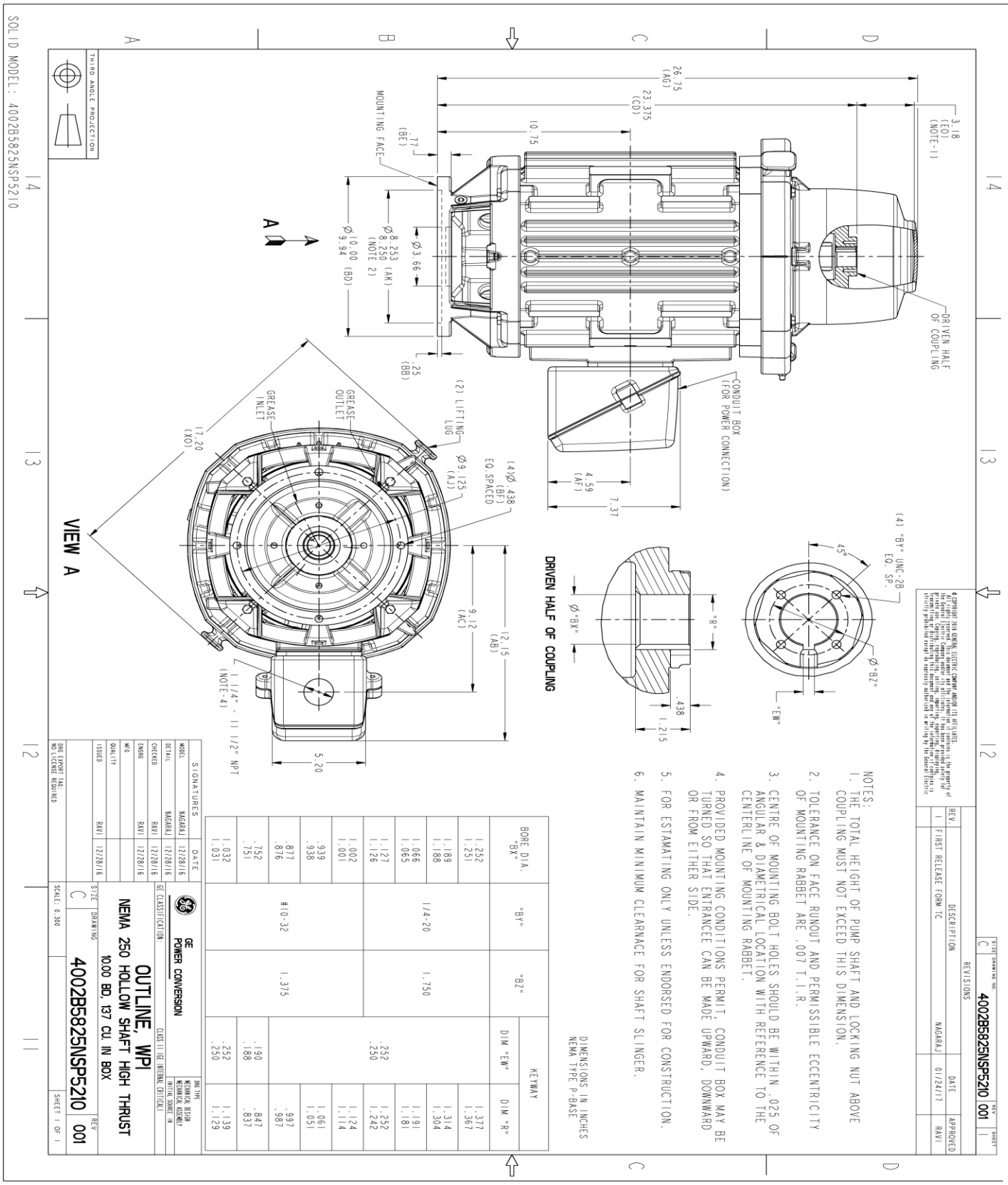
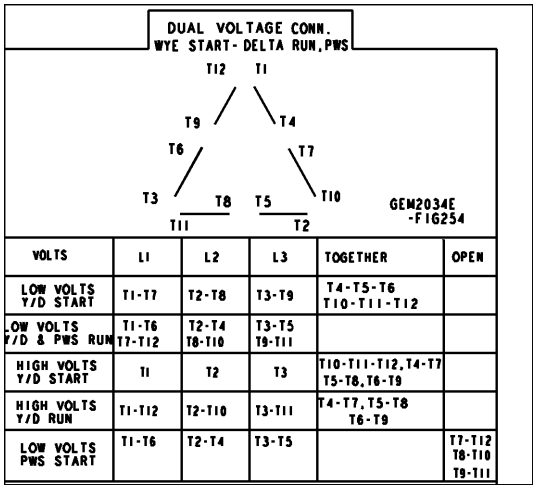


BORE DIA. "BX"	"BY"	"BZ"	KEYWAY DIM "EW"	KEYWAY DIM "R"
1.252 1.251				1.377 1.367
1.189 1.188				1.314 1.304
1.066 1.065	1/4-20	1.750		1.191 1.181
1.127 1.126			.252 .250	1.252 1.242
1.002 1.001				1.124 1.114
.939 .938				1.061 1.051
.877 .876	#10-32	1.375		.997 .987
.752 .751			.190 .188	.847 .837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

Marks:

Connection Diagram

GEM2034E-FIG254



VOLTS	L1	L2	L3	TOGETHER	OPEN
LOW VOLTS Y/D START	T1-T7	T2-T8	T3-T9	T4-T5-T6 T10-T11-T12	
LOW VOLTS Y/D & PWS RUN	T1-T6 T7-T12	T2-T4 T8-T10	T3-T5 T9-T11		
HIGH VOLTS Y/D START	T1	T2	T3	T10-T11-T12, T4-T7 T5-T8, T6-T9	
HIGH VOLTS Y/D RUN	T1-T12	T2-T10	T3-T11	T4-T7, T5-T8 T6-T9	
LOW VOLTS PWS START	T1-T6	T2-T4	T3-T5		T7-T12 T8-T10 T9-T11

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	