GE Power Conversion

## **Product Information Packet**

January 13, 2017

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

Model Number:	5KS256SAE6037A
Catalog Number:	V906
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5825PMP5317

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

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## Marks:

MODEL NUMBER:	5KS256SAE6037A	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825PMP5317	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEK-95351	Encl Construction:	SD
Design Code:	25BD1163A	Ambient Max(°C):	40
Туре:	KS	Alt Ambient Max(°C):	65
Frame:	L256TP10	Insulation Class:	н
Phases:	3	NEMA Design:	В
Poles:	4	Nominal Efficiency:	93 %
Output Power:	20HP 14.8KW	Guaranteed Efficiency:	91.7
RPM:	1775	3/4 Load Efficiency:	93.7
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	6.2
Amps - FL:	47.6/23.8	Power Factor:	84.5
Service Factor:	1.15	Bearing - DE:	7309
Alt Service Factor:	1.00	Bearing - ODE:	6209-2ZC3

**Enclosure is Totally Enclosed Fan-Cooled** 

## Stamped Nameplate Notes:

PREMIUM EFFICIENT MOTOR ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3 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 20-60 HZ 50HZ DATA: 15 HP 190/380 V WITH FLA-43.6/21.8 A

## Additional Information:

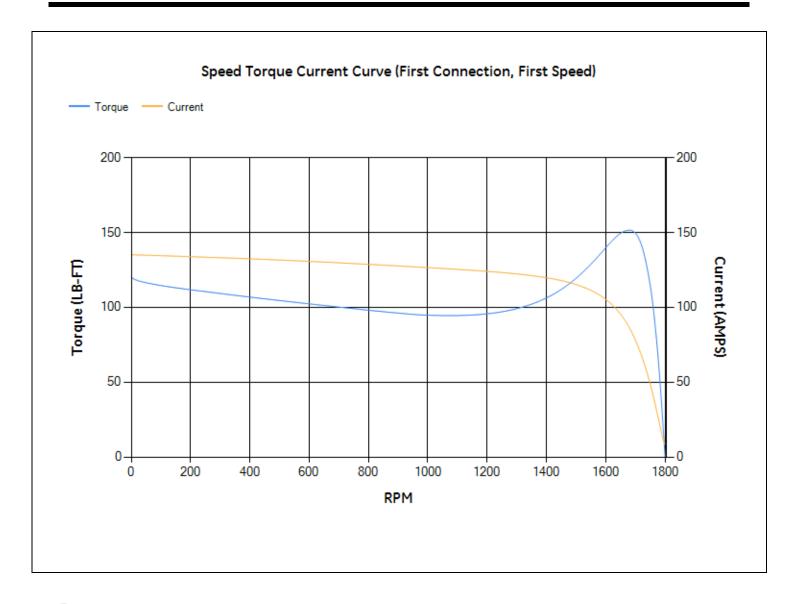
4P - TP EXTN C/BOX 137 CU IN-1.25 NPT HEATER LEADS EXIT WITH MOTOR LEADS E/SHLD GROUND STUD MTD ON DE C/BOX SIDE RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES & CENTER OF GRAVITY 10.75 INCHES HOLLOW SHAFT HIGH THRUST LEADS NUMBERED 1,2,3 - CCW ROTN FROM ODE OIL RESISTANT SLEEVING ON LEADS BEARING LIFE 8760 HOURS AT 2564 LB THRUST COUPLING NOT INCLUDED IN BOM, WILL BE ORDERED SEPERATELY FCSD STOCK 05/12/2015 ENGINEERED BY: BALASUBRAMANIANH



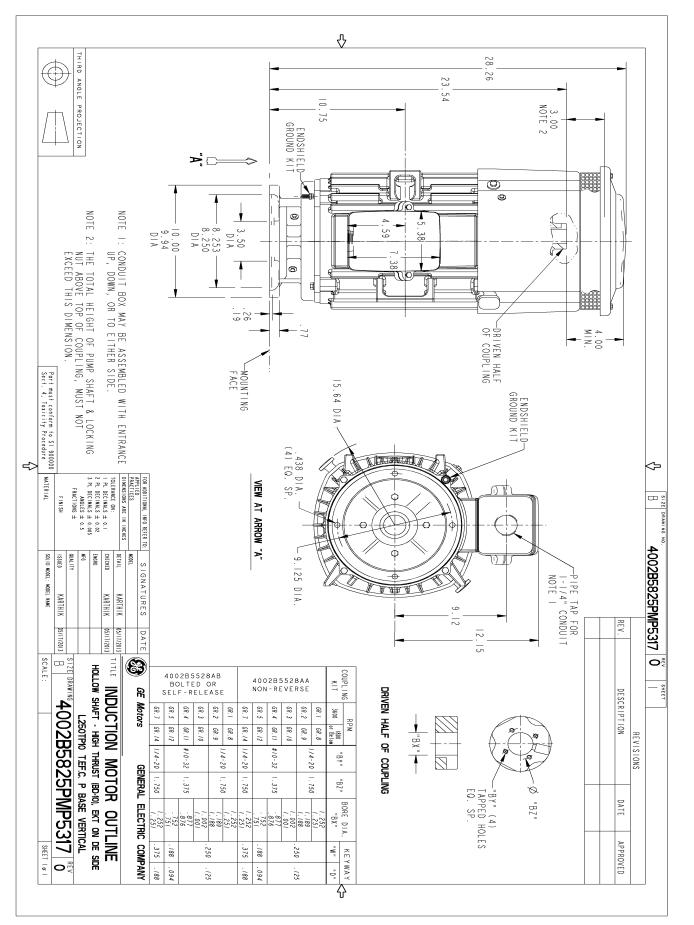
Model Number:5KS256SAE6037A						Ja	nuary 13, 2017
Performance ( Marks:	Characteristics	<u>8</u>	1st Winding 1s	ing 1st Connection		Desig	<u>ın: 25BD1163A</u>
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.13	92.56	93.31	93.72	93.6	91.02	0.00
% PF	86.1	85.75	84.73	80.95	71.89	49.85	4.4
AMPS	29.5	27.12	23.68	18.5	13.91	10.31	8.62
TORQ(FL)#FT AMPS(LR)	59.21 135.12		(LR)%FL START	203.53 0.45	TORG	Q(BD)%FL	254.91

This motor is capable of two cold or one hot start with a maximum connected load inertia of 653 Lb-Ft Sq (27.49 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 43 seconds. Safe stall time at 100% voltage is 98 seconds cold, 62 seconds hot. Rotor inertia is 3.04 Lb-Ft Sq (0.13 Kg-meter Sq).

Open Circuit A-C:	0.483	Short Circuit D-C:	0.014
Short Circuit A-C:	0.024	X/R Ratio:	5.127
Stator Slots:	48	Rotor Slots:	40



imagination at work



Marks:

	Connection Diagram GEM2034E-FIG3					
6.01						
	NNECTION LTAGE RA	-	2Y/IY I/2	, c	JEM2034E 1103	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	VOLTS	LI	L2	L3	TOGETHER	
2 Y	LOW	TI-T7	T2-T8	T3-T9	T4-T5-T6	
IY	HIGH	ΤI	Т2	Т3	T4-T7,T5-T8, T6-T9	

⊢ ⊢ H	— н
CONTROL	L1 L2
VOLTAGE ONLY	НН

