

# Product Information Packet

April 30, 2019

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

<b>Model Number:</b>	<b>5KS256CWL105</b>
<b>Catalog Number:</b>	<b>E524</b>
<b>Instruction Manual:</b>	GEI-M1049
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	358B6503AA

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	3027JE-2A	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS256CWL105</b>	<b>Estimated Weight:</b>	407 Lbs
<b>Outline Drawing:</b>	358B6503AA	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG9	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1049	<b>Encl Construction:</b>	XP
<b>Design Code:</b>	NA	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	55
<b>Frame:</b>	256T	<b>Insulation Class:</b>	F
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	2	<b>Nominal Efficiency:</b>	91.0 %
<b>Output Power:</b>	20HP 14.8KW	<b>Guaranteed Efficiency:</b>	89.5 %
<b>RPM:</b>	3530	<b>3/4 Load Efficiency:</b>	91.0 %
<b>Voltage:</b>	230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	5.3
<b>Amps - FL:</b>	46.2/23.1	<b>Power Factor:</b>	89.7%
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6309-C3
<b>Alt Service Factor:</b>	1.0	<b>Bearing - ODE:</b>	6309-C3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:****Additional Information:**

THERMOSTAT FOR: TRIP 145+/-5 DEG C  
 THERMOSTAT LEADS: 3 NC TO TERMINATE IN MAIN CB  
 ROTATION:CCW VIEWED FROM ODE  
 CLASS /GAS GROUP:CL I GR C and D, CLASS II GR F and G  
 CBOX SIZE:291 CU INCH  
 INVERTER DUTY PER NEMA MG1 PART 31  
 INVERTER RATED PWM 10:1 VARIABLE TORQUE, 5:1 CONSTANT TORQUE, 1.0 SF  
 UL CERTIFICATION SUITABLE FOR INSTALLATION IN –  
 - THE UNITED STATES, NIGERIA AND KUWAIT

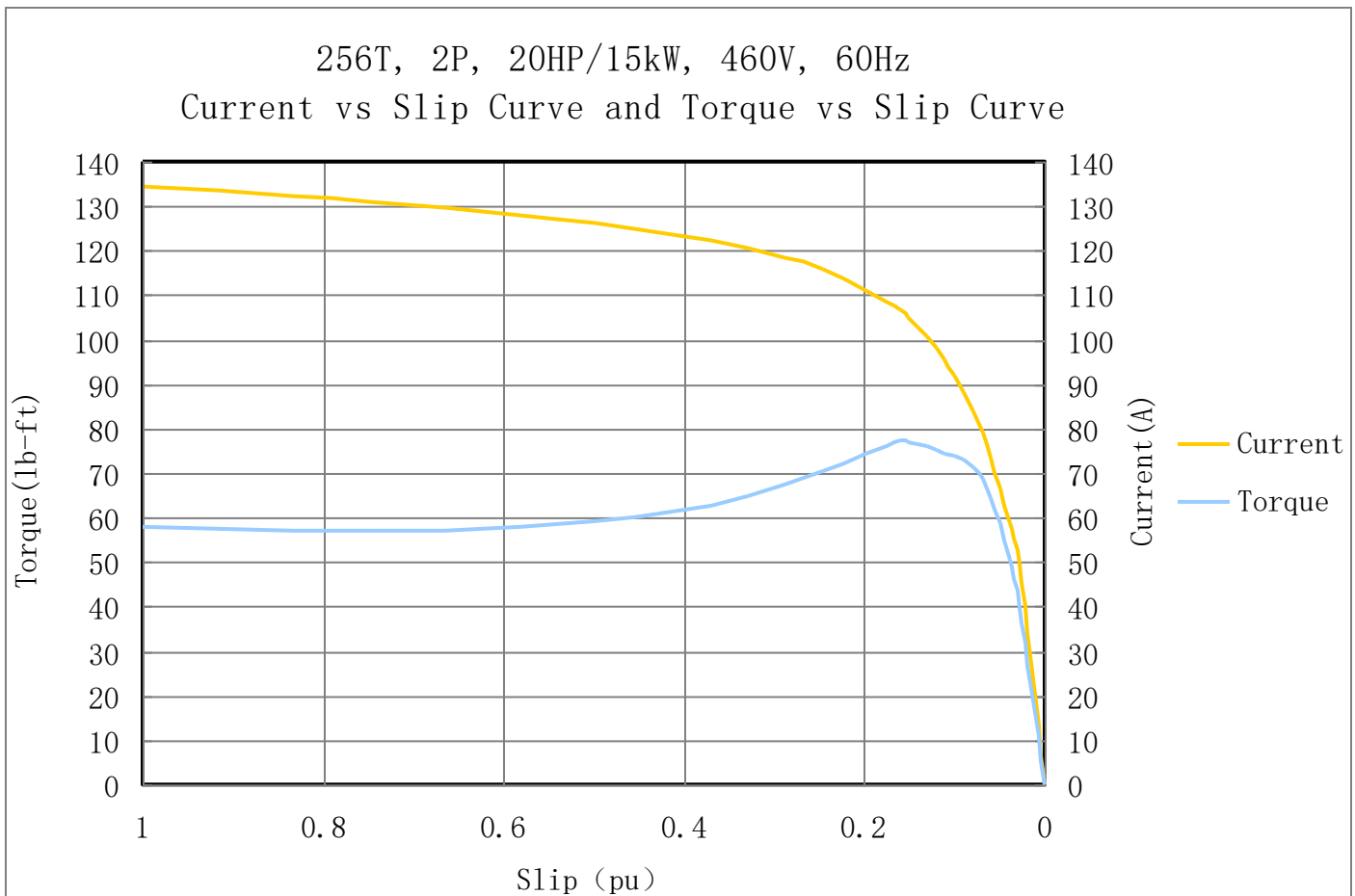
Performance Characteristic:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.80	91.14	91.00	91.00	91.85	89.58	0.00
% PF	92.2	92.3	89.7	91.4	87.7	73.0	28.5
AMPS(460V)	28.1	25.7	23.1	16.8	11.7	7.2	2.6

TORQUE(FL) LB-FT 30.38 TORQUE(LR)%FL 191.0 TORQUE(BD)%FL 244.5  
 AMPS(LR 460V) 134.5 PF AT START 0.35%

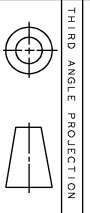
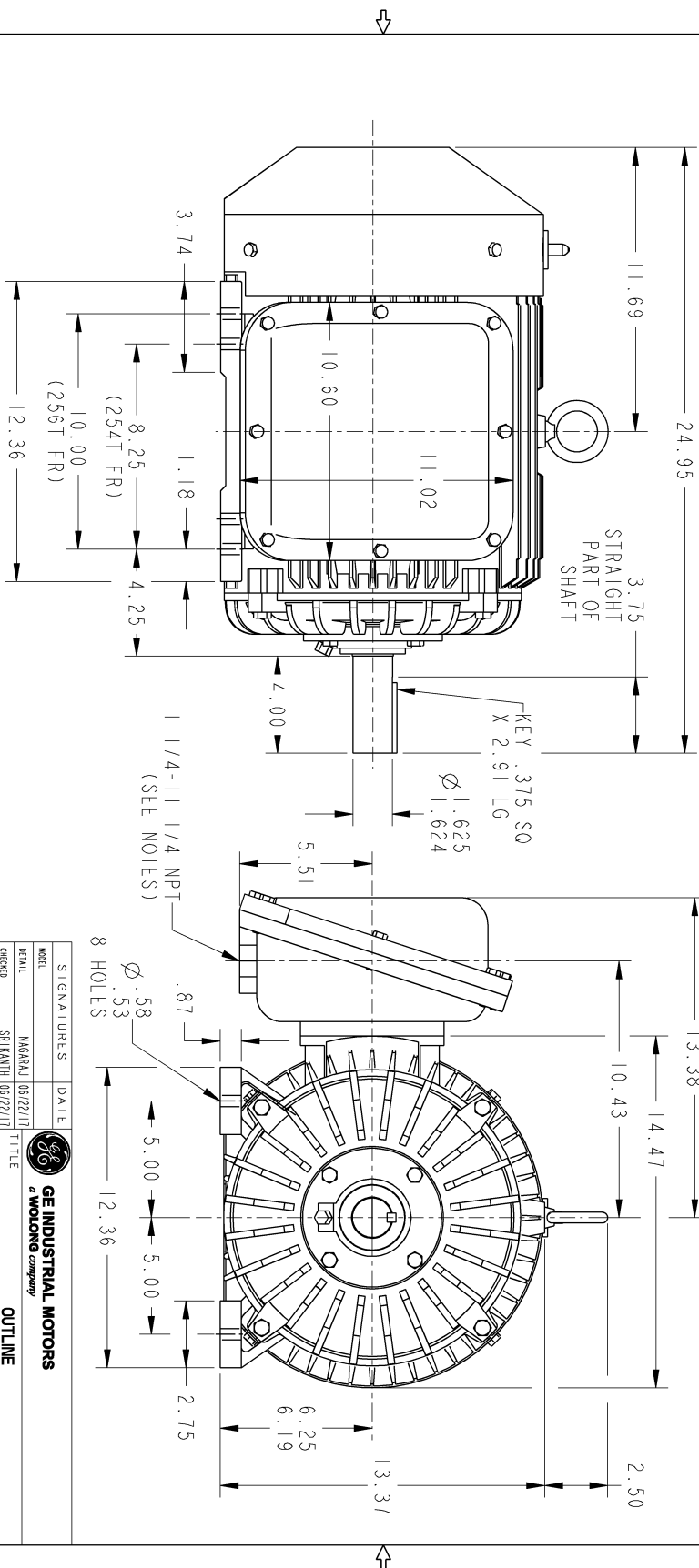
Other Useful Information for Application:

Rotor Inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):	1.54(0.065)
Max load inertia: Lb-Ft <sup>2</sup> (Kg-m <sup>2</sup> ):	21(0.88)
Load Type:	Square Torque/Speed Characteristic
Voltage:	100%
Number of starts per hour:	2 Cold or 1 Hot
Acceleration Time with maximum inertia (sec):	3.8
Safe stall time (sec): Cold/Hot	55/30



Marks:

- NOTES:
1. CONDUIT BOX IS SUITABLE FOR UP, DOWN OR EITHER SIDE ENTRY.
  2. F1 ASSEMBLY AS SHOWN.
  3. ALL DIMENSIONS ARE IN INCHES.



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REV.	DESCRIPTION	DATE	APPROVED
1	ISSAC #17-0780	10/24/17	SRI KANTH
2	ISSAC #18-0869	SREDEVI 01/04/19	PRASHANTH
3	ISSAC #19-0358	NAGARAJ 04/22/19	SAHID

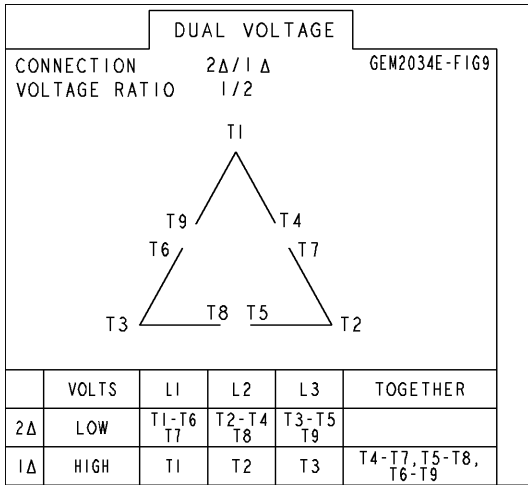
SIGNATURES	DATE
MODEL: NAGARAJ 06/22/17	
DRAWN: SRI KANTH 06/22/17	
CHECKED: SRI KANTH 06/22/17	
ENG: SRI KANTH 06/22/17	
W/E:	
QUALITY:	
ISSUED: SRI KANTH 06/22/17	
SOLD ID MODEL: MODEL MAKE	

GE INDUSTRIAL MOTORS a wolong company	OUTLINE
254T / 256T TFFC EXPLOSION PROOF	
291 CU. IN. C/BOX	
358B6503AA	REV.
SCALE: NTS	REF. No.:
SHEET 1 OF 1	

Marks:

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



**Thermostat Connection**  
**3027JE-2A**

