GE
Power Conversion

Product Information Packet

January 12, 2017

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

Model Number:	**5KS511AAG204A**
Catalog Number:	**P372**
Instruction Manual:	GEI-100351
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	50DP3187G001DBT

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1C
RTD:	235A3027XC	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

Table of Contents

imagination at work

Marks:

MODEL NUMBER:	**5KS511AAG204A**	**Estimated Weight:**	4270 Lbs
Outline Drawing:	50DP3187G001DBT	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG2	**Enclosure:**	WPI
Instruction Book:	GEI-100351	**Encl Construction:**	OPEN
Design Code:	50ED1368E	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	XX
Frame:	5011LL	**Insulation Class:**	F
Phases:	3	**NEMA Design:**	-
Poles:	4	**Nominal Efficiency:**	95.4 %
Output Power:	600HP 444KW	**Guaranteed Efficiency:**	94.5
RPM:	1775	**3/4 Load Efficiency:**	95.9
Voltage:	2300/4000	**KVA Code:**	F
Hertz:	60	**Max KVAR:**	93.6
Amps - FL:	129.4/74.4	**Power Factor:**	91.0
Service Factor:	1.15	**Bearing - DE:**	SLEEVE
Alt Service Factor:	XX	**Bearing - ODE:**	SLEEVE

Enclosure is Weather Protected One

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP
GE SELF DECLARED CLASS I DIV 2 MOTOR
MAX EXPOSED INTERNAL AND EXTERNAL SURFACE
TEMPERATURES UNDER USUAL SERVICE CONDITION
AT 1.00 S.F. DO NOT EXCEED 200 DEG C
VIBRATION LIMIT = 0.150 IN/SEC
TEMP CONT HTR LDS HE1-HE2 115V 200W
MAXIMUM SPACE HEATER SURFACE
TEMPERATURE 160 DEG C

Additional Information:

4 POLE, LL SHAFT EXTN
FORMED COIL
SLEEVE BEARINGS
(2)GROUND BOLTS ON FRAME
TEMP CONTRL 115V HEATER LEADS & 100 OHM
WINDING RTD LEADS TO ACCESSORY BOX
SUGGESTED WINDING RTD SETTINGS
ALARM 165C TRIP 175C
PROVISION FOR BEARING RTD BOTH ENDS
SUGGESTED BEARING RTD SETTINGS,IF PROVIDED
ALARM 90C TRIP 100C
PROVISION FOR JACK SCREWS
2500 Cu. In. CBOX

Performance Characteristics 1st Winding 1st Connection **Design: 50ED1368E**

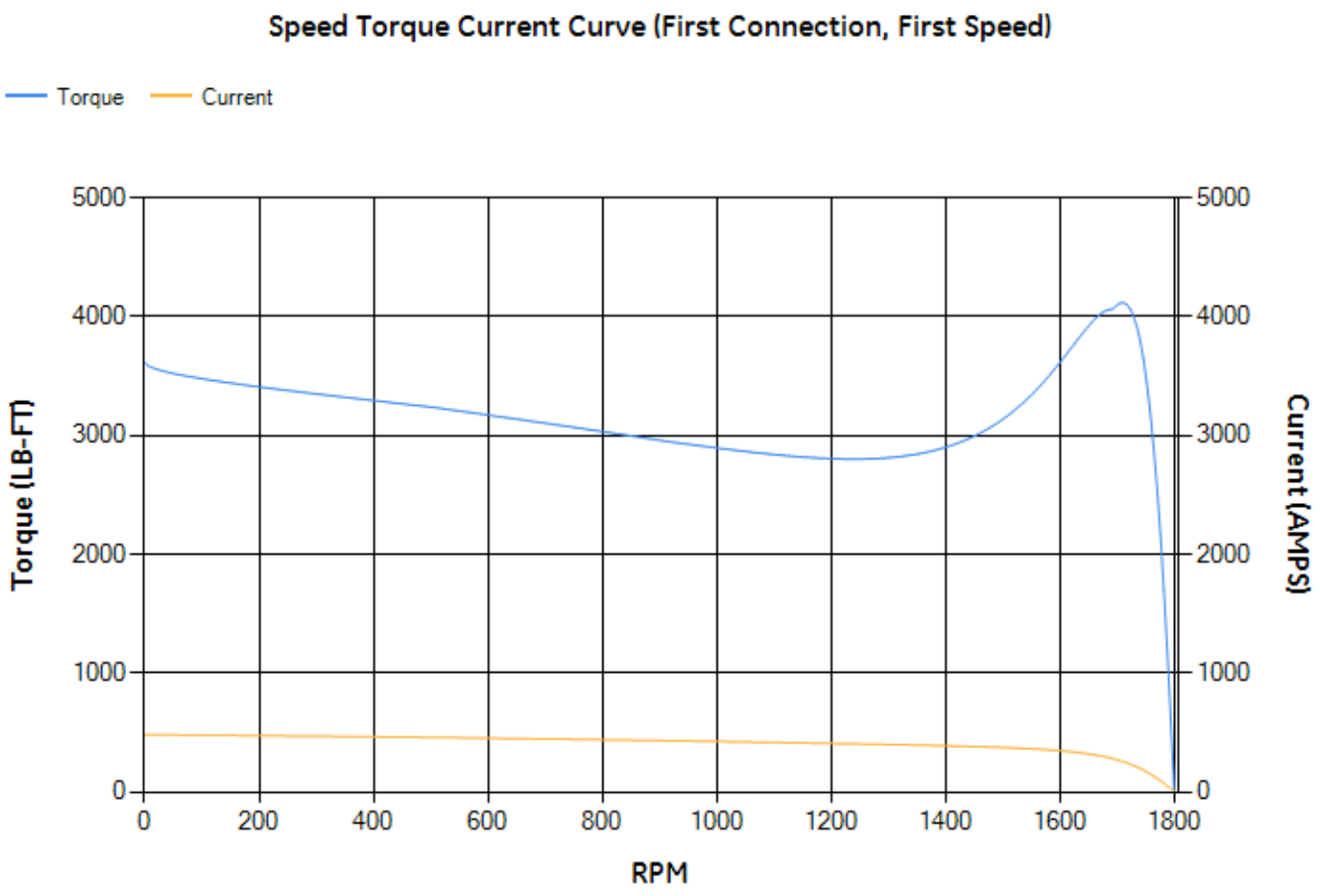
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.61	94.94	95.58	95.91	96.04	94.75	0.00
% PF	90.35	90.68	91.61	90.09	86.3	70.99	4.64
AMPS	94.44	86.27	73.66	56.05	38.96	24	15.01

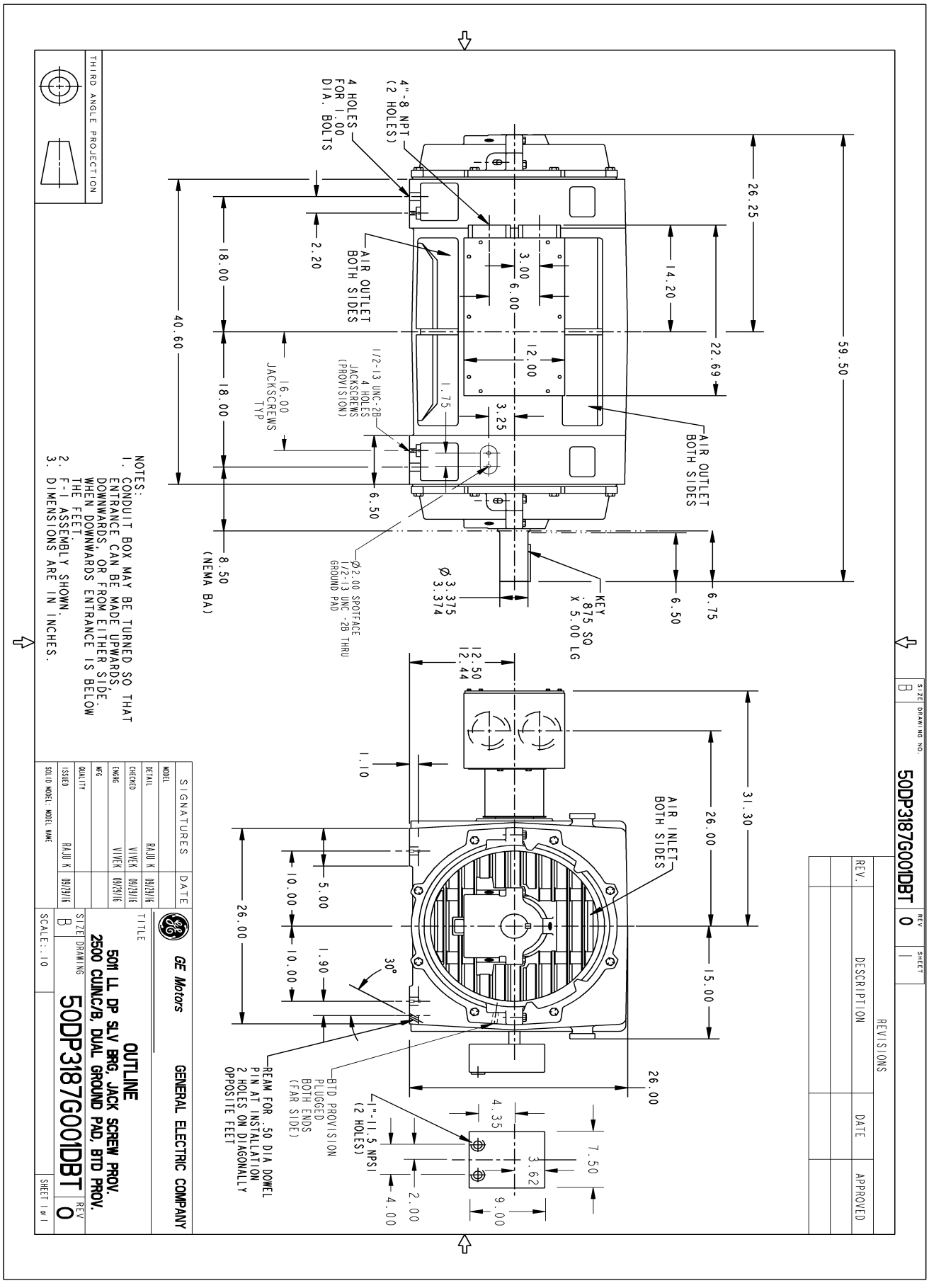
TORQ(FL)#FT	1772.95	**TORQ(LR)%FL**	203.98	**TORQ(BD)%FL**	228.82
AMPS(LR)	480.49	**PF AT START**	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 6204 Lb-Ft Sq (261.19 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 14 seconds. Safe stall time at 100% voltage is 26 seconds cold, 17 seconds hot. Rotor inertia is 171.42 Lb-Ft Sq (7.22 Kg-meter Sq).

Open Circuit A-C:	1.025	**Short Circuit D-C:**	0.023
Short Circuit A-C:	0.029	**X/R Ratio:**	8.694
Stator Slots:	72	**Rotor Slots:**	56



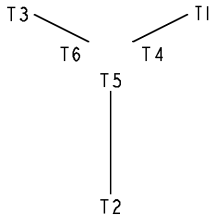
Marks:


4"-8 NPT (2 HOLES)
4 HOLES FOR 1.00 DIA. BOLTS
AIR OUTLET BOTH SIDES
1/2-13 UNC-2B 4 HOLES JACKSCREWS (PROVISION)
16.00 JACKSCREWS TYP
Ø2.00 SPOTFACE 1/2-13 UNC -2B THRU GROUND PAD
Ø 3.375 3.374
KEY .875 SQ X 5.00 LG
AIR INLET BOTH SIDES
REAM FOR .50 DIA DOWEL PIN AT INSTALLATION 2 HOLES ON DIAGONALLY OPPOSITE FEET
BTD PROVISION PLUGGED BOTH ENDS (FAR SIDE)
1"-11.5 NPSI (2 HOLES)
30°
59.50
26.25
22.69
14.20
40.60
18.00
31.30
26.00
15.00
12.50
12.44
26.00
7.50
4.35
3.62
9.00
2.00
4.00
NOTES:
1. CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARDS, DOWNWARDS, OR FROM EITHER SIDE. WHEN DOWNWARDS ENTRANCE IS BELOW THE FEET.
2. F-I ASSEMBLY SHOWN.
3. DIMENSIONS ARE IN INCHES.
THIRD ANGLE PROJECTION
SIZE B
DRAWING NO. 50DP3187G001DBT
REV 0
SHEET 1
REVISIONS
REV. | DESCRIPTION | DATE | APPROVED
SIGNATURES
MODEL
DETAIL RAJU K 09/29/16
CHECKED VIVEK 09/29/16
ENGRG VIVEK 09/29/16
MFG
QUALITY
ISSUED RAJU K 09/29/16
SOLID MODEL- MODEL NAME
GE Motors
GENERAL ELECTRIC COMPANY
TITLE
OUTLINE
5011 LL DP SLV BRG, JACK SCREW PROV.
2500 CUM.C/B, DUAL GROUND PAD, BTD PROV.
SIZE B DRAWING 50DP3187G001DBT REV 0
SCALE: .10
SHEET 1 of 1

Connection Diagram
GEM2034E-FIG2

DUAL VOLTAGE

CONNECTION IΔ / IY GEM2034E-FIG2
VOLTAGE RATIO 1/1,73



	VOLTS	L1	L2	L3	TOGETHER
IΔ	LOW	T1-T6	T2-T4	T3-T5	
IY	HIGH	T1	T2	T3	T4-T5-T6

Heater Connection
3027JE-1C

HEATER CONNECTION

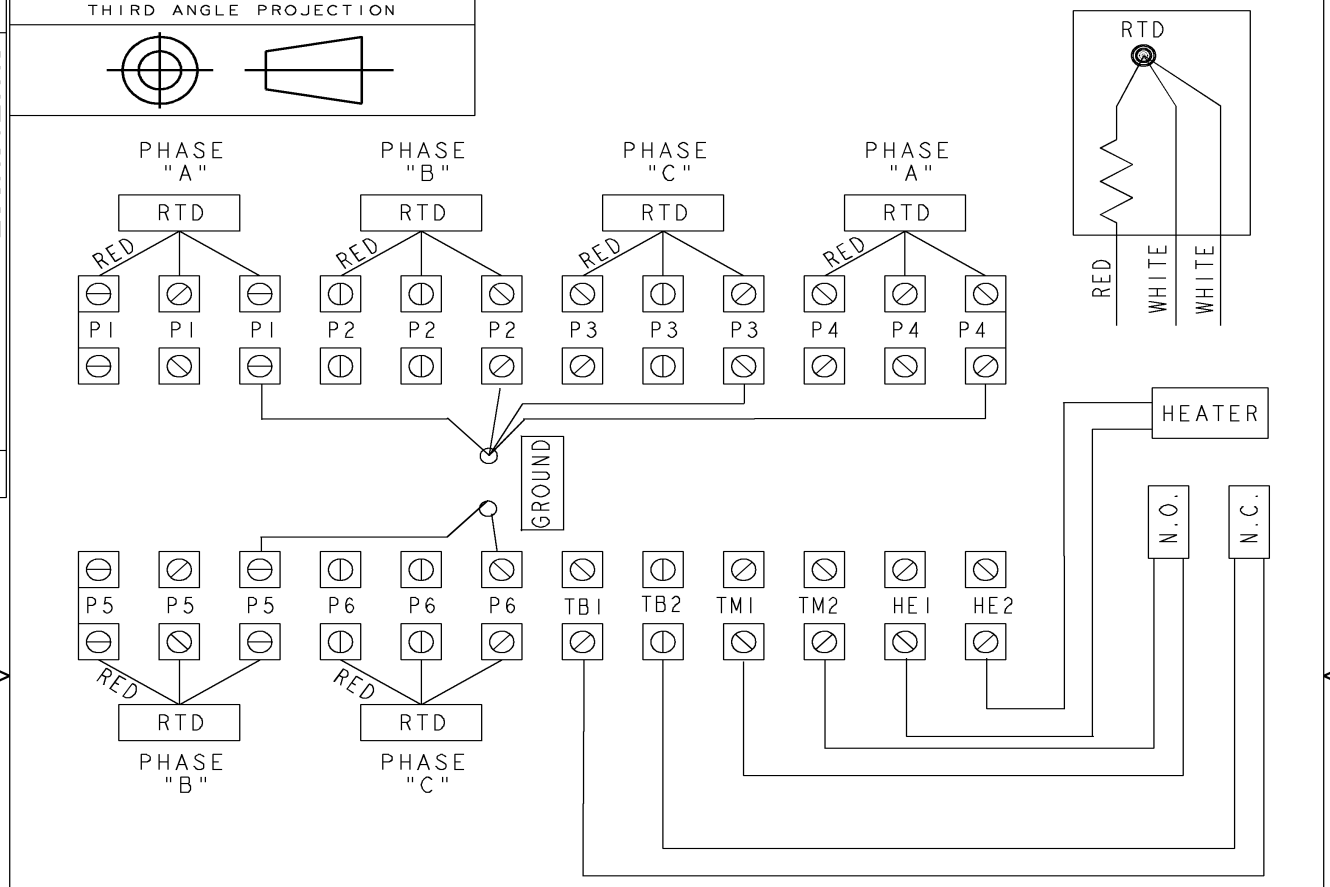
SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

SHEET —
REV 0
235A3027XC
DRAWING NO.
SIZE A

THIRD ANGLE PROJECTION

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



NOTE 1: TERMINAL LABELS ARE PROVIDED FOR ACCESSORIES THAT MAY OR MAY NOT BE INCLUDED WITH THE MOTOR.

NOTE 2: SPARE RTDS (P7 & P8) FURNISHED IN CASE OF FAILURE IN OTHER RTDS (P1-P6). PHASE LOCATION WILL DEPEND UPON NUMBER OF POLES WINDING CONFIGURATION.

NOTE 3: IT IS RECOMMENDED THAT RTDS BE GROUNDED AT EITHER THE MACHINE OR CONNECTED TO A GROUNDED CONTROL CIRCUIT. FOR PROPER OPERATION DO NOT GROUND AT THE MACHINE IF CONNECTED TO A GROUND CIRCUIT AT THE CONTROL.

Part must conform to SI 900000 Sect. 4, Toxicity Procedure

FOR ADDITIONAL INFO REFER TO:	SIGNATURES		DATE
APPLIED PRACTICES	MODEL		
DIMENSIONS ARE IN INCHES	DETAIL	VIVEK	01/08/15
TOLERANCE ON:	CHECKED	KARTHIK	01/08/15
1 PL DECIMALS ± 0.1	ENGRG		
2 PL DECIMALS ± 0.02	MFG		
3 PL DECIMALS ± 0.005	QUALITY		
ANGLES ± 0.5	ISSUED	VIVEK	01/08/15
FRACTIONS ±			
FINISH ✓			
MATERIAL	SOLID MODEL: MODEL NAME		

GE Motors GENERAL ELECTRIC COMPANY

TITLE **CONNECTION DIAGRAM**
IEC
WINDING RTD'S & T'STATS & HEATERS

SIZE	DRAWING	REV
A	235A3027XC	0

SCALE: NA | SHEET 1 of 1

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	119D1877DH2	119D1877DP1
Bearing	153B4435AD-G01	153B4435AD-G01
Slinger/Inproseal		

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

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9025G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	