GE
Power Conversion

Product Information Packet

January 12, 2017

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

Model Number:	**5KS511SAA340C**
Catalog Number:	**Q518**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG2
Outline Drawing:	239C6B00MD

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1C
RTD:	235A3027XY	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	235A3027NA		

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imagination at work

Marks:

MODEL NUMBER:	**5KS511SAA340C**	**Estimated Weight:**	5800 Lbs
Outline Drawing:	239C6B00MD	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG2	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	SD
Design Code:	50BD3205EC	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	5011L	**Insulation Class:**	F
Phases:	3	**NEMA Design:**	--
Poles:	6	**Nominal Efficiency:**	95.4 %
Output Power:	400HP 296KW	**Guaranteed Efficiency:**	94.5
RPM:	1190	**3/4 Load Efficiency:**	96.3
Voltage:	2300/4000	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	113.3
Amps - FL:	92.9/53.4	**Power Factor:**	84.5
Service Factor:	1.15	**Bearing - DE:**	NU 320
Alt Service Factor:	--	**Bearing - ODE:**	6315ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
HTR LDS HE1-HE2 115V 350W
ROLLER BEARING - FOR BELTED LOAD ONLY

Additional Information:

6P - L EXTN
2500 CU IN - 2(4.00" NPT)
B5F4C4 HIGH STRENGTH STEEL AISI 4142 SHAFT MATERIAL
100 0HM WINDING RTD LEADS TO AUX C/BOX OPP MAIN C/BOX
SUGGESTED WINDING RTD SETTINGS
ALARM 165C TRIP 175C
115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
SPACE HEATER CAUTION NAMEPLATE
BEARING RTD 100 OHM ON BOTH ENDS
SUGGESTED BEARING RTD SETTINGS
ALARM 115C TRIP 125C
NEMA TYPE GRD PAD
F1 MOUNTING
SHAFT BLOCKING FOR SHIPMENT

Performance Characteristics 1st Winding 1st Connection **Design: 50BD3205EC**

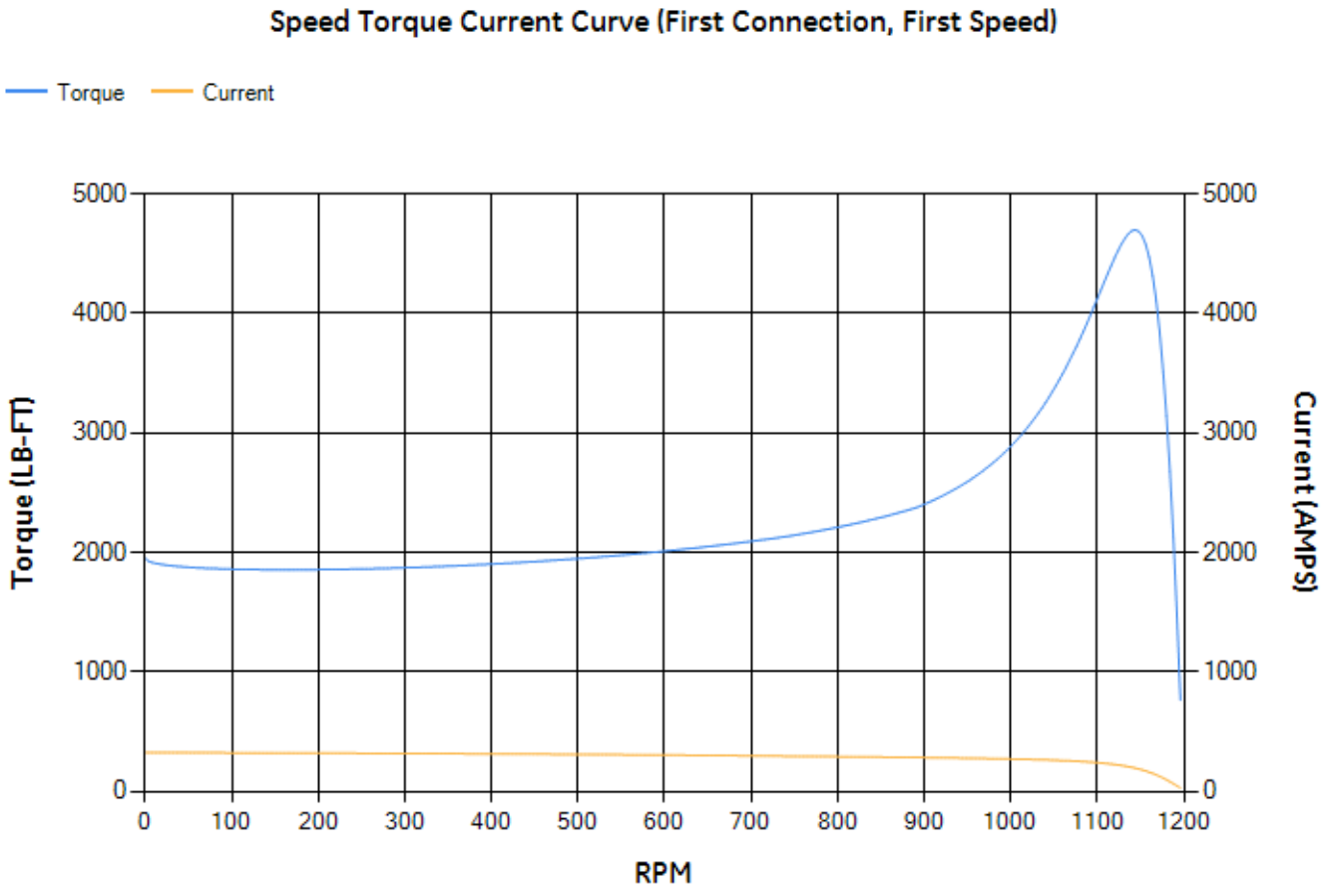
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.76	95.94	96.36	96.34	96.05	94.09	0.00
% PF	85.57	85.36	84.59	81.35	73.05	51.47	3.21
AMPS	65.68	60.45	52.84	41.2	30.68	22.23	18.18

TORQ(FL)#FT	1765.25	**TORQ(LR)%FL**	110.49	**TORQ(BD)%FL**	265.83
AMPS(LR)	323.53	**PF AT START**	0.22		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 24536 Lb-Ft Sq (1032.97 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 56 seconds. Safe stall time at 100% voltage is 114 seconds cold, 67 seconds hot. Rotor inertia is 277.14 Lb-Ft Sq (11.67 Kg-meter Sq).

Open Circuit A-C:	0.87	**Short Circuit D-C:**	0.041
Short Circuit A-C:	0.047	**X/R Ratio:**	15.499
Stator Slots:	72	**Rotor Slots:**	58



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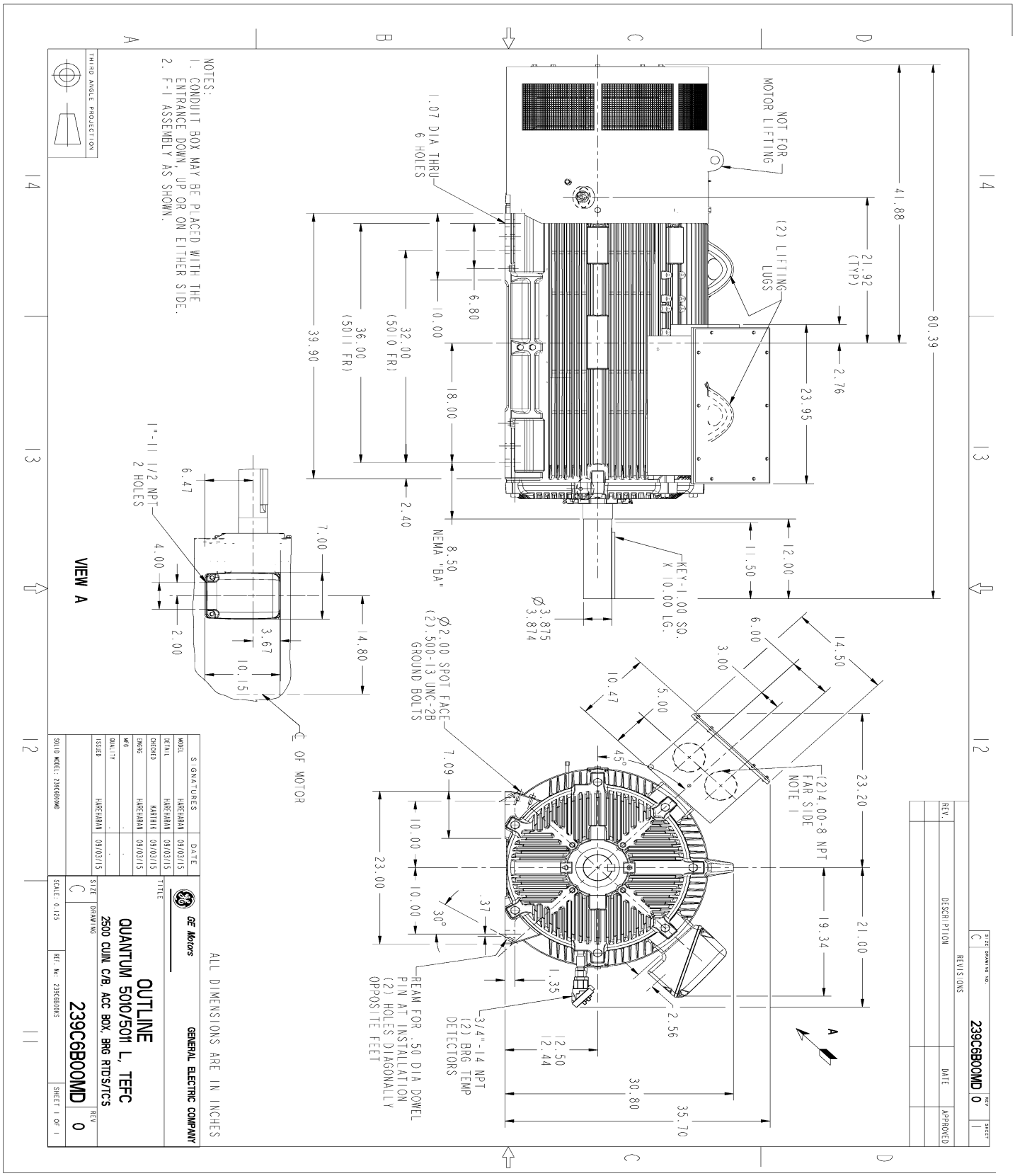
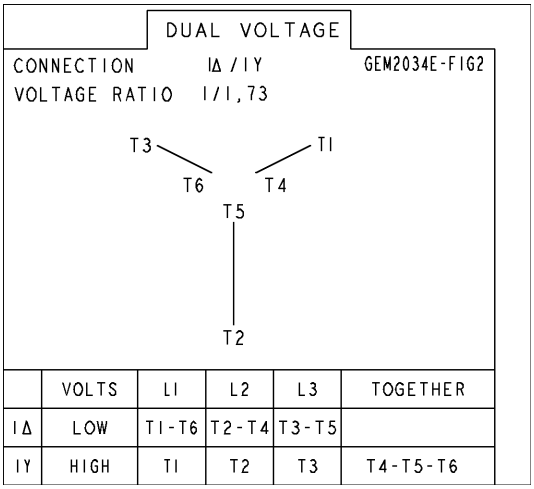

NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
THIRD ANGLE PROJECTION
1.07 DIA THRU 6 HOLES
NOT FOR MOTOR LIFTING
(2) LIFTING LUGS
41.88
21.92 (TYP)
80.39
2.76
23.95
6.80
10.00
18.00
32.00 (5010 FR)
36.00 (5011 FR)
39.90
2.40
8.50 NEMA "BA"
KEY-1.00 SQ. X 10.00 LG.
11.50
12.00
Ø3.875 3.874
1"-11 1/2 NPT 2 HOLES
6.47
4.00
2.00
7.00
3.67
10.15
14.80
VIEW A
Ø2.00 SPOT FACE (2).500-13 UNC-2B GROUND BOLTS
6.00
3.00
14.50
10.47
5.00
45°
7.09
10.00
10.00
23.00
30°
.37
(2)4.00-8 NPT FAR SIDE NOTE 1
23.20
19.34
21.00
1.35
2.56
3/4"-14 NPT (2) BRG TEMP DETECTORS
REAM FOR .50 DIA DOWEL PIN AT INSTALLATION (2) HOLES DIAGONALLY OPPOSITE FEET
12.50
12.44
30.80
35.70
A
ALL DIMENSIONS ARE IN INCHES
SIGNATURES
MODEL HARE.HARAN 09/03/15
DETAIL HARE.HARAN 09/03/15
CHECKED KARTHIK 09/03/15
ENGRG HARE.HARAN 09/03/15
MFG
QUALITY
ISSUED HARE.HARAN 09/03/15
GE Motors
GENERAL ELECTRIC COMPANY
TITLE
OUTLINE
QUANTUM 5010/5011 L, TEFC
2500 CUIN C/B, ACC BOX, BRG RTDS/TCS
SIZE C
DRAWING 239C6B00MD
REV 0
SCALE: 0.125
REF. No: 239C6B00NS
SHEET 1 OF 1
SOLID MODEL: 239C6B00MD
REVISIONS
REV. DESCRIPTION DATE APPROVED
SIZE C DRAWING NO. 239C6B00MD REV 0 SHEET 1

Connection Diagram
GEM2034E-FIG2



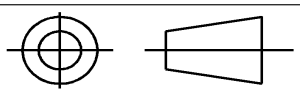
	VOLTS	LI	L2	L3	TOGETHER
IΔ	LOW	TI-T6	T2-T4	T3-T5	
IY	HIGH	TI	T2	T3	T4-T5-T6

Heater Connection
3027JE-1C

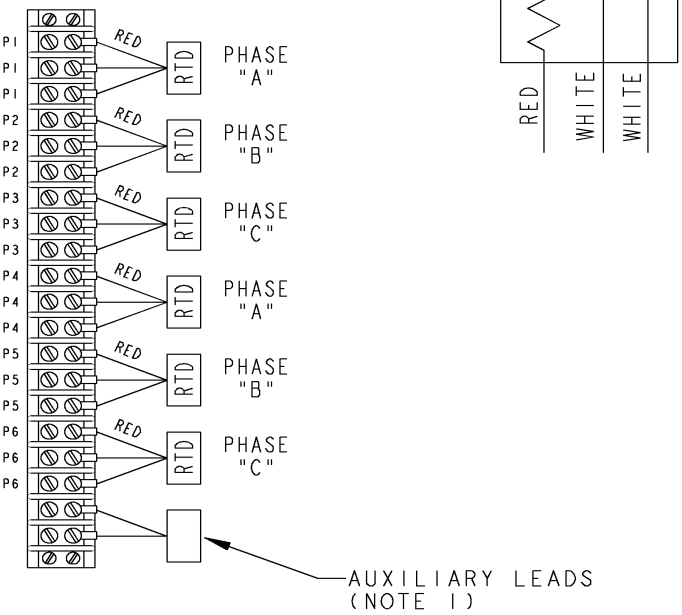
SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

SHEET 1 | REV 2 | 235A3027XY | DRAWING NO. | SIZE A

THIRD ANGLE PROJECTION



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC# 15-0790 HARIKIRAN	07/28/15	DHEERAJ
2	ISAAC# 16-0422 SAGAR K	05/04/2016	ADINARAYANA



NOTE 1: AUXILIARY LEADS SHOWN MAY OR MAY NOT BE PROVIDED IN 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.

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	06/26/15
TOLERANCE ON:	CHECKED	KARTHIK	06/26/15
1 PL DECIMALS ± 0.1	ENGRG		
2 PL DECIMALS ± 0.02	MFG		
3 PL DECIMALS ± 0.005	QUALITY		
ANGLES ± 0.5	ISSUED	VIVEK	06/26/15
FRACTIONS ±			
FINISH ✓			
MATERIAL	SOLID MODEL: MODEL NAME		

GE Motors GENERAL ELECTRIC COMPANY

TITLE **CONNECTION DIAGRAM**

WINDING RTD & AUXILIARY LEADS

SIZE	DRAWING	REV
A	235A3027XY	2

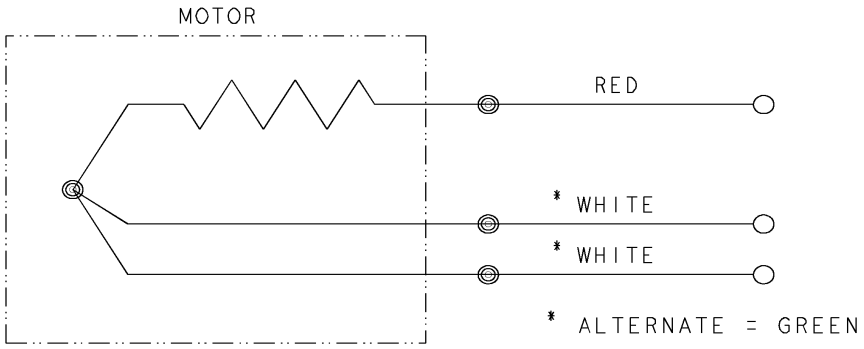
SCALE: N.T.S. | REF:- 235A4594AX | SHEET 1 of 1

REV I | SH I | DWG NO 235A3027NA | SIZE A

THIRD ANGLE PROJECTION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	ISAAC #12-1124 HARI	11/19/12	KARTHIK

BEARING RTDS



UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE IN INCHES	DRAWN D.E. BAIR	12/16/92
TOLERANCES ON:		
2 PL DECIMALS ±	CHECKED D.E. BAIR	12/16/92
3 PL DECIMALS ±	ENGRG K. DESAI	12/16/92
ANGLES ±	ISSUED D.E. BAIR	12/16/92
FRACTIONS ± ✓		
MATERIAL:		
	CAD NO. F500:235A3027NA	
APPLIED PRACTICES:		

GE Motors — Fort Wayne, Indiana

CONNECTION DIAGRAM

BEARING RTDS

SIZE	FSCM NO	DWG NO	DISTR TO
A		235A3027NA	-

SCALE 1/1 | SHEET 1 OF 1