GE
Power Conversion

Product Information Packet

January 12, 2017

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

Model Number:	**5KS513SAA258A**
Catalog Number:	**Q5017**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6C00HE

Accessory Connection Diagrams

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

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imagination at work

Marks:

MODEL NUMBER:	**5KS513SAA258A**	**Estimated Weight:**	7150 Lbs
Outline Drawing:	239C6C00HE	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG20	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	SD
Design Code:	50BD1241B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	5013S	**Insulation Class:**	F
Phases:	3	**NEMA Design:**	--
Poles:	4	**Nominal Efficiency:**	96.5 %
Output Power:	600HP 444KW	**Guaranteed Efficiency:**	95.8
RPM:	1785	**3/4 Load Efficiency:**	96.9
Voltage:	575	**KVA Code:**	E
Hertz:	60	**Max KVAR:**	95.5
Amps - FL:	514.0	**Power Factor:**	90.5
Service Factor:	1.15	**Bearing - DE:**	6320ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6320ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
HTR LDS HE1-HE2 115V 350W
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ
FOR DIRECT COUPLED LOAD ONLY

Additional Information:

4P - S EXTN - SPLIT LEAD
2500 CU IN - 2(4.00" NPT)
C/B GRD PLATE
115V HTR LDS TO AUX BOX OPP MAIN CONDUIT BOX
SPACE HEATER CAUTION NAMEPLATE
NEMA TYPE GRD PAD
F1 MOUNTING
PROVISION FOR BTD ON BOTH ENDS PLUGGED

Performance Characteristics 1st Winding 1st Connection **Design: 50BD1241B**

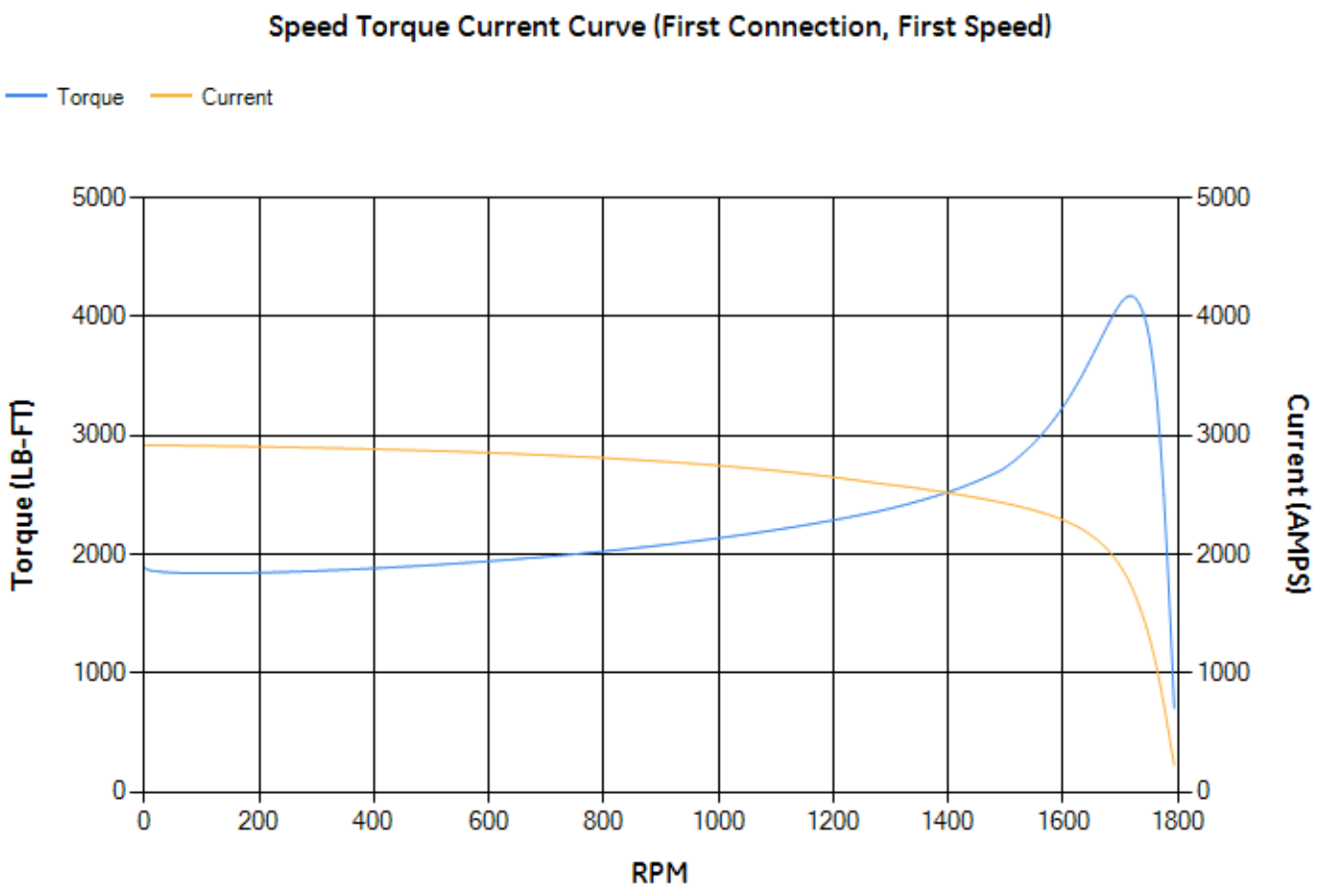
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	96.19	96.4	96.86	96.94	96.88	95.6	0.00
% PF	90.16	90.48	90.67	89.92	86.21	71.22	4.08
AMPS	647.53	592.37	511.89	386.55	268.94	164.96	106.58

TORQ(FL)#FT	1766.36	**TORQ(LR)%FL**	106.77	**TORQ(BD)%FL**	236.19
AMPS(LR)	2917.79	**PF AT START**	0.24		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 15576 Lb-Ft Sq (655.75 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 55 seconds. Safe stall time at 100% voltage is 108 seconds cold, 65 seconds hot. Rotor inertia is 280.56 Lb-Ft Sq (11.81 Kg-meter Sq).

Open Circuit A-C:	1.398	**Short Circuit D-C:**	0.046
Short Circuit A-C:	0.046	**X/R Ratio:**	17.393
Stator Slots:	72	**Rotor Slots:**	58



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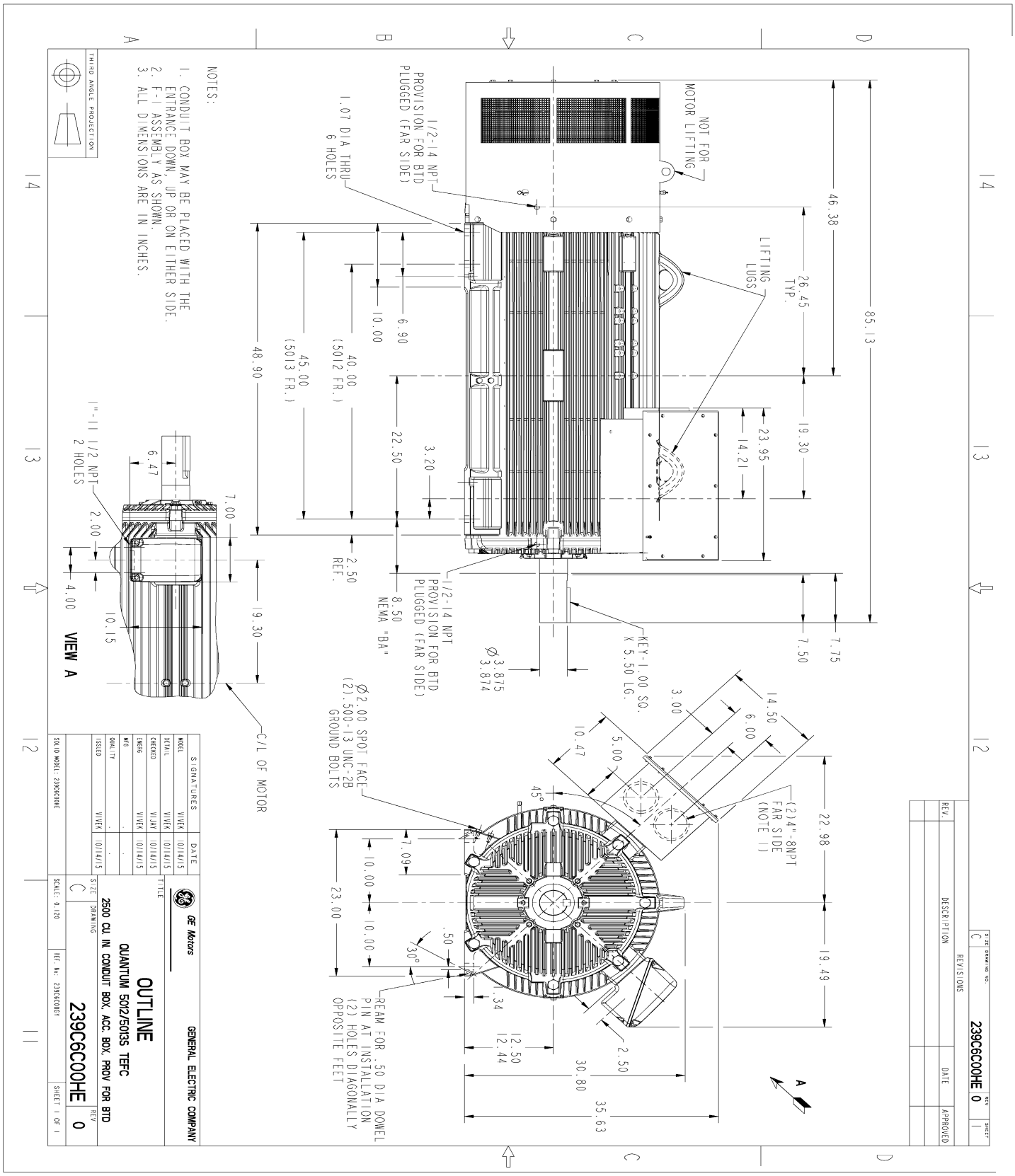
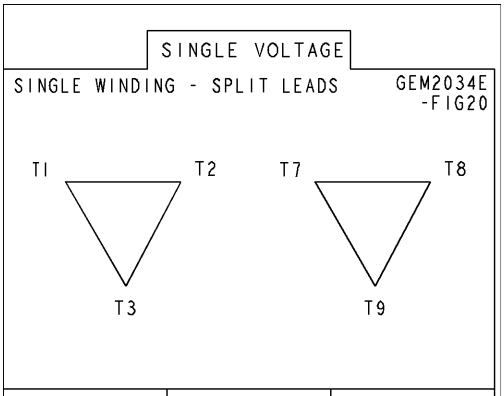

NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. ALL DIMENSIONS ARE IN INCHES.
THIRD ANGLE PROJECTION
1/2-14 NPT PROVISION FOR BTD PLUGGED (FAR SIDE)
1.07 DIA THRU 6 HOLES
NOT FOR MOTOR LIFTING
LIFTING LUGS
46.38
26.45 TYP.
85.13
19.30
23.95
14.21
10.00
6.90
40.00 (5012 FR.)
45.00 (5013 FR.)
48.90
22.50
3.20
2.50 REF.
1/2-14 NPT PROVISION FOR BTD PLUGGED (FAR SIDE)
8.50 NEMA "BA"
KEY-1.00 SQ. X 5.50 LG.
Ø3.875 3.874
7.50
7.75
1"-11 1/2 NPT 2 HOLES
6.47
2.00
4.00
7.00
10.15
19.30
VIEW A
C/L OF MOTOR
Ø2.00 SPOT FACE (21.500-13 UNC-2B GROUND BOLTS
3.00
14.50
6.00
10.47
5.00
45°
(2)4"-8NPT FAR SIDE (NOTE 1)
22.98
7.09
10.00
23.00
10.00
.50
30°
.34
19.49
2.50
12.50
12.44
30.80
35.63
REAM FOR .50 DIA DOWEL PIN AT INSTALLATION (2) HOLES DIAGONALLY OPPOSITE FEET
A
SIZE C DRAWING NO. 239C6C00HE REV 0 SHEET 1
REVISIONS
REV. DESCRIPTION DATE APPROVED
SIGNATURES DATE
MODEL VIVEK 10/14/15
DETAIL VIVEK 10/14/15
CHECKED VIJAY 10/14/15
ENGRG VIVEK 10/14/15
MFG
QUALITY
ISSUED VIVEK 10/14/15
GE Motors
GENERAL ELECTRIC COMPANY
TITLE
OUTLINE
QUANTUM 5012/5013S TEFC
2500 CU. IN. CONDUIT BOX. ACC. BOX. PROV FOR BTD
SIZE C DRAWING 239C6C00HE REV 0
SOLID MODEL: 239C6C00HE
SCALE: 0.120
REF. No: 239C6C00G1
SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG20



L1	L2	L3
T1-T7	T2-T8	T3-T9

Heater Connection
3027JE-1C

SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2