GE
Power Conversion

Product Information Packet

November 8, 2016

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

Model Number:	**5KS326SAA146D6**
Catalog Number:	**M8966**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6001AF

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	None
RTD:	None	**Thermistor:**	None
Thermostat:	None	**Winding Thermocouple:**	None
Bearing RTD:	None		

Table of Contents

imagination at work

Marks:

MODEL NUMBER:	**5KS326SAA146D6**	**Estimated Weight:**	670 Lbs
Outline Drawing:	239C6001AF	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	X$D
Design Code:	32BD0112A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	55
Frame:	326TSC	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	93.0 %
Output Power:	50HP 37KW	**Guaranteed Efficiency:**	92.4
RPM:	3565	**3/4 Load Efficiency:**	93.8
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	15.1
Amps - FL:	58.5	**Power Factor:**	86.0
Service Factor:	1.15	**Bearing - DE:**	6312ZC3
Alt Service Factor:	1.00	**Bearing - ODE:**	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

STAMP NP249A5564P051 AS BELOW:
MODEL:5KS326SAA146D6 S/N: XXX
CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
IN -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR
OR 215C VT OR 230C CT OR 215C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0 - 60 HZ, CT 30-60 HZ, CHP 60-75 HZ.

Additional Information:

2P - TS EXTN
C FACE ON DE
346 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
F1 MOUNTING
TEFC XSD ULTRA STOCK 08/24/2016
ENGINEERED BY: BALASUBRAMANIANH/BILURP

Performance Characteristics 1st Winding 1st Connection **Design: 32BD0112A**

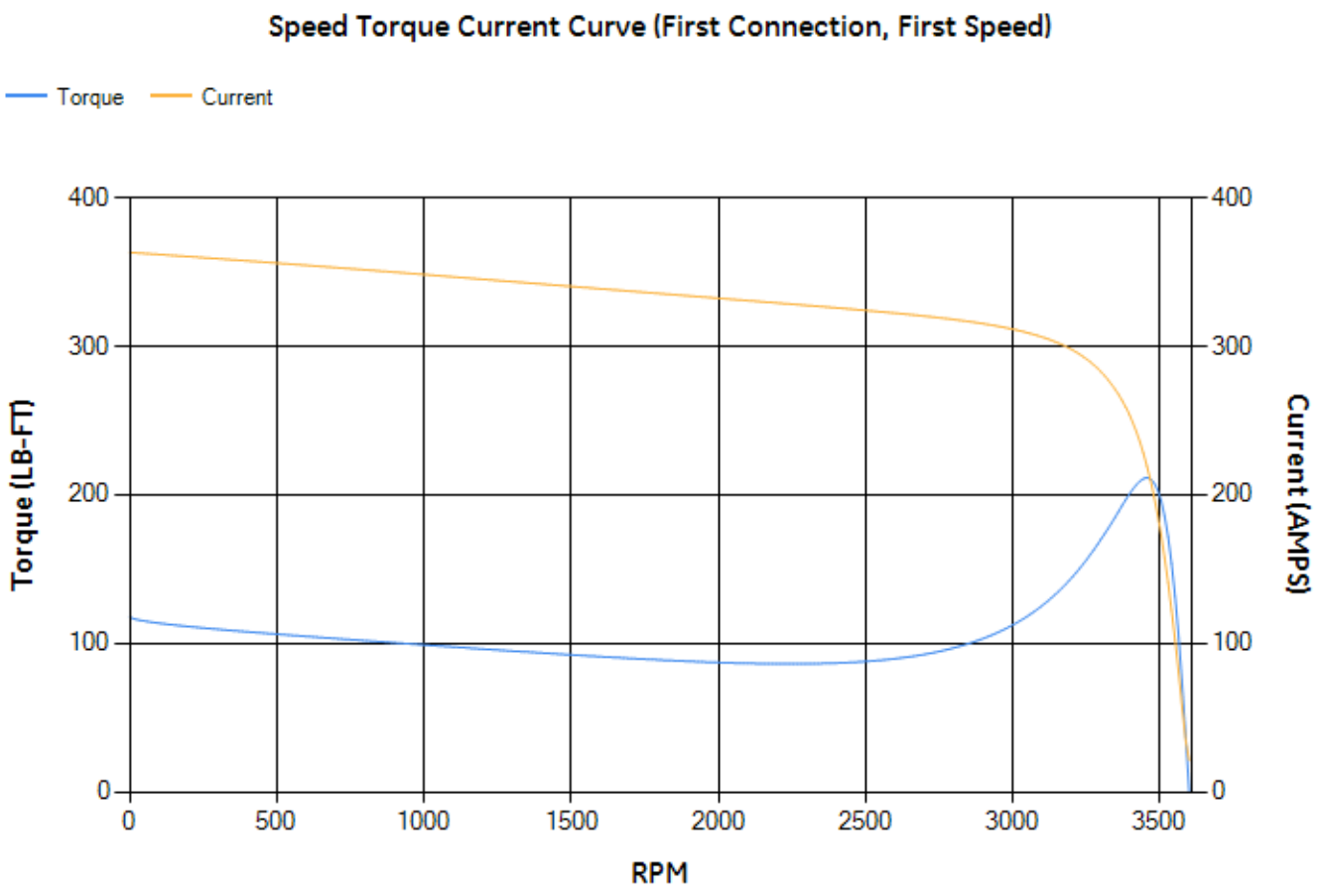
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.06	93.32	93.8	93.76	93.08	89.46	0.00
% PF	87.68	87.25	86.14	82.33	73.38	51.5	5.55
AMPS	71.68	66.1	57.85	45.47	34.26	25.4	21.1

TORQ(FL)#FT	73.65	**TORQ(LR)%FL**	160.32	**TORQ(BD)%FL**	286.91
AMPS(LR)	363.21	**PF AT START**	0.31		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 127 Lb-Ft Sq (5.35 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 19 seconds. Safe stall time at 100% voltage is 45 seconds cold, 22 seconds hot. Rotor inertia is 4.06 Lb-Ft Sq (0.17 Kg-meter Sq).

Open Circuit A-C:	0.707	**Short Circuit D-C:**	0.018
Short Circuit A-C:	0.039	**X/R Ratio:**	6.693
Stator Slots:	48	**Rotor Slots:**	38



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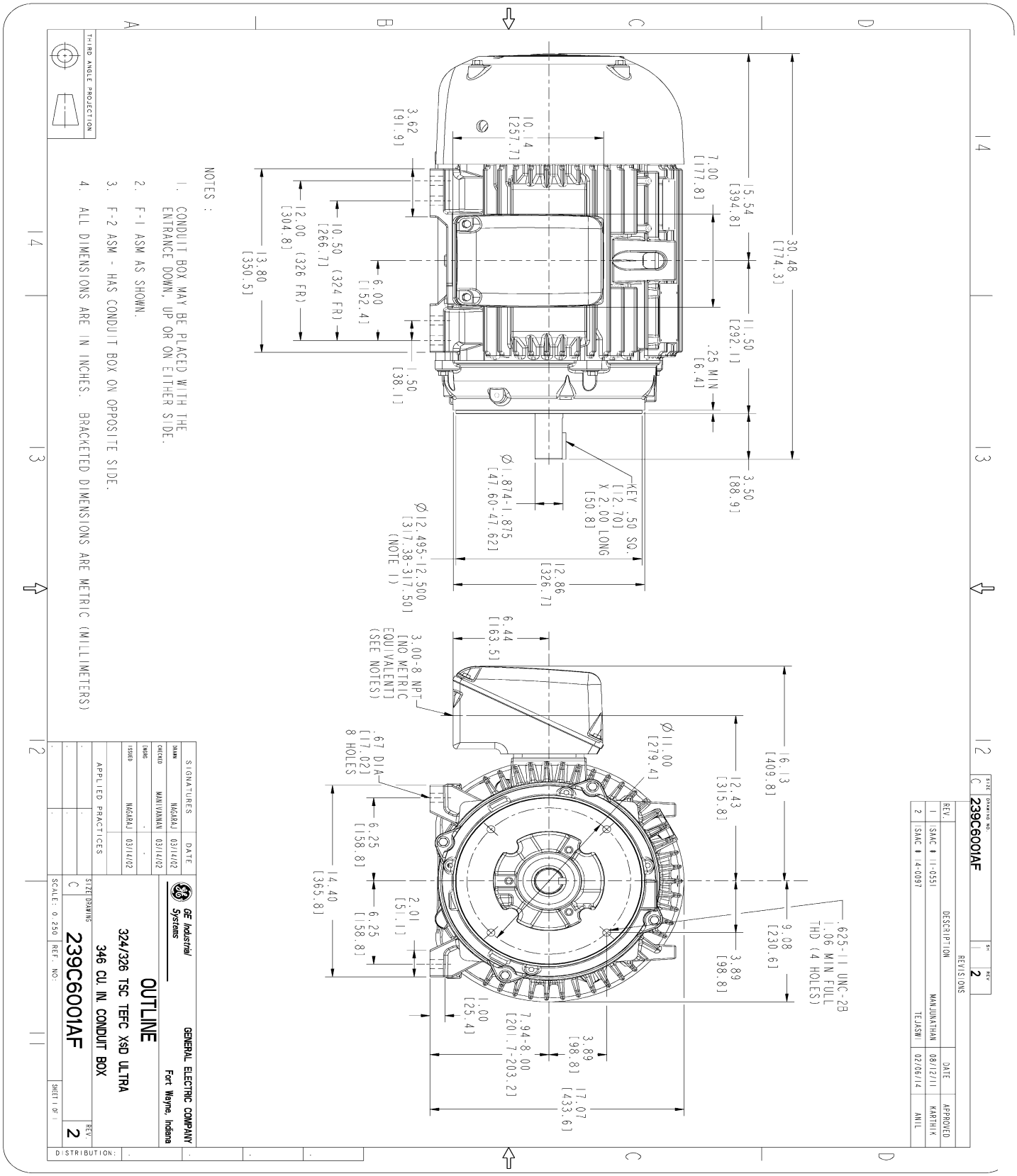
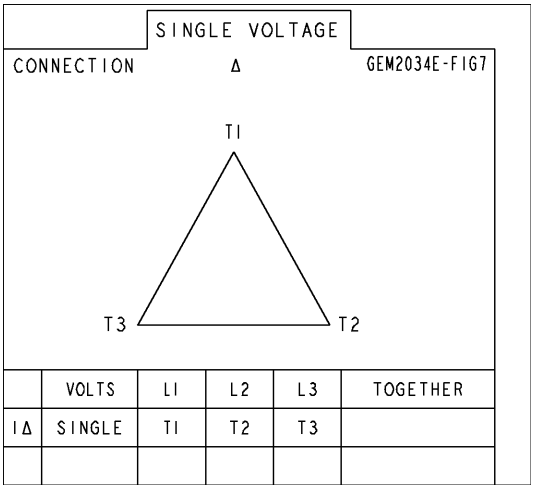

30.48 [774.3]
15.54 [394.8]
11.50 [292.1]
.25 MIN [6.4]
7.00 [177.8]
10.14 [257.7]
3.62 [91.9]
12.00 (326 FR) [304.8]
10.50 (324 FR) [266.7]
6.00 [152.4]
1.50 [38.1]
13.80 [350.5]
3.50 [88.9]
KEY .50 SQ. X 2.00 LONG [12.70] X [50.8]
Ø 1.874-1.875 [47.60-47.62]
Ø 12.495-12.500 [317.38-317.50] (NOTE 1)
12.86 [326.7]
6.44 [163.5]
3.00-8 NPT [NO METRIC EQUIVALENT] (SEE NOTES)
Ø 11.00 [279.4]
16.13 [409.8]
12.43 [315.8]
.625-11 UNC-2B 1.06 MIN FULL THD (4 HOLES)
9.08 [230.6]
3.89 [98.8]
.67 DIA [17.02] 8 HOLES
6.25 [158.8]
2.01 [51.1]
14.40 [365.8]
1.00 [25.4]
7.94-8.00 [201.7-203.2]
17.07 [433.6]
THIRD ANGLE PROJECTION
NOTES :
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASM AS SHOWN.
3. F-2 ASM - HAS CONDUIT BOX ON OPPOSITE SIDE.
4. ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS)
SIZE C DRAWING NO. 239C6001AF SH 1 REV 2
REVISIONS
REV. DESCRIPTION DATE APPROVED
1 ISAC # 11-0351 MANJUNATHAN 08/12/11 KARTHIK
2 ISAC # 14-0097 TEJASWI 02/06/14 ANIL
SIGNATURES DATE
DRAWN MAGARAJ 03/14/02
CHECKED MANIVANNAN 03/14/02
ENGRG - -
ISSUED MAGARAJ 03/14/02
APPLIED PRACTICES
GE Industrial Systems
GENERAL ELECTRIC COMPANY
Fort Wayne, Indiana
OUTLINE
324/326 TSC TEFC XSD ULTRA
346 CU. IN. CONDUIT BOX
SIZE DRAWING C
239C6001AF
REV. 2
SCALE: 0.250
REF. NO:
SHEET 1 OF 1
DISTRIBUTION:

Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4203AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	