GE
Power Conversion

Product Information Packet

November 8, 2016

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

Model Number:	**5KS447SAA341B**
Catalog Number:	**M7759**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6800AA

Accessory Connection Diagrams

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

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imagination at work

Marks:

MODEL NUMBER:	**5KS447SAA341B**	**Estimated Weight:**	2940 Lbs
Outline Drawing:	239C6800AA	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	X$D
Design Code:	49BD3014A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	65
Frame:	447T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	6	**Nominal Efficiency:**	95.8 %
Output Power:	150HP 111KW	**Guaranteed Efficiency:**	95.4
RPM:	1190	**3/4 Load Efficiency:**	95.9
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	38.7
Amps - FL:	170.0	**Power Factor:**	86.0
Service Factor:	1.25	**Bearing - DE:**	NU 318
Alt Service Factor:	1.00	**Bearing - ODE:**	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

ROLLER BEARING - FOR BELTED LOAD ONLY
SF AMPS 213.0
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS447SAA341B 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 200C AT 1.25SF ON SINE-WAVE PWR
OR 200 C VT OR 215 C CT OR 200 C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0-60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

Additional Information:

6P - T EXTN
700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 49BD3014A**

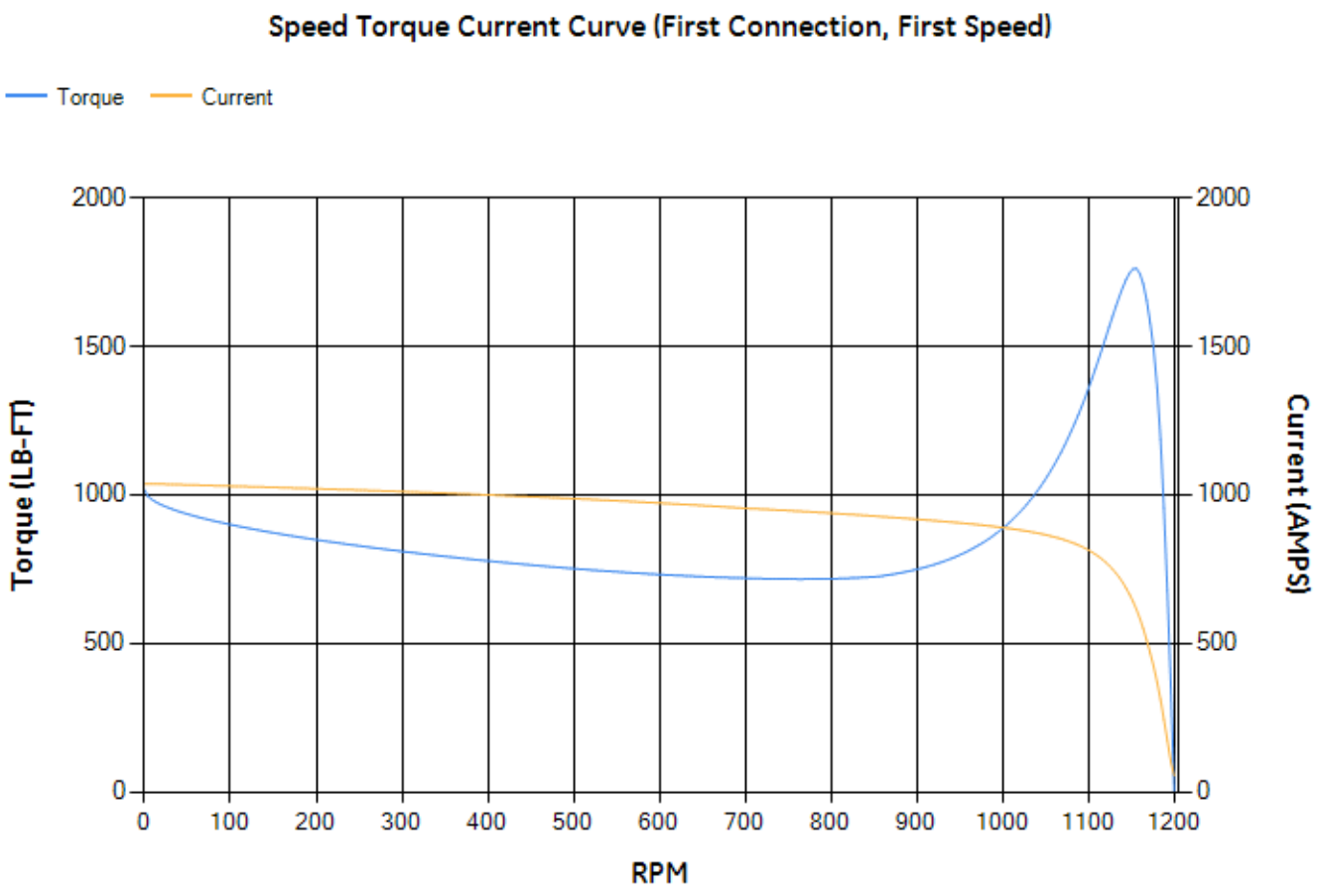
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.17	95.39	95.87	95.92	95.67	93.62	0.00
% PF	86.56	86.44	85.83	83.05	75.57	54.83	3.79
AMPS	213.04	195.8	170.61	132.17	97.1	68.37	53.93

TORQ(FL)#FT	660.68	**TORQ(LR)%FL**	153.83	**TORQ(BD)%FL**	266.54
AMPS(LR)	1037.47	**PF AT START**	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 15470 Lb-Ft Sq (651.29 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 94 seconds. Safe stall time at 100% voltage is 170 seconds cold, 113 seconds hot. Rotor inertia is 177.16 Lb-Ft Sq (7.46 Kg-meter Sq).

Open Circuit A-C:	1.243	**Short Circuit D-C:**	0.034
Short Circuit A-C:	0.059	**X/R Ratio:**	12.742
Stator Slots:	72	**Rotor Slots:**	58



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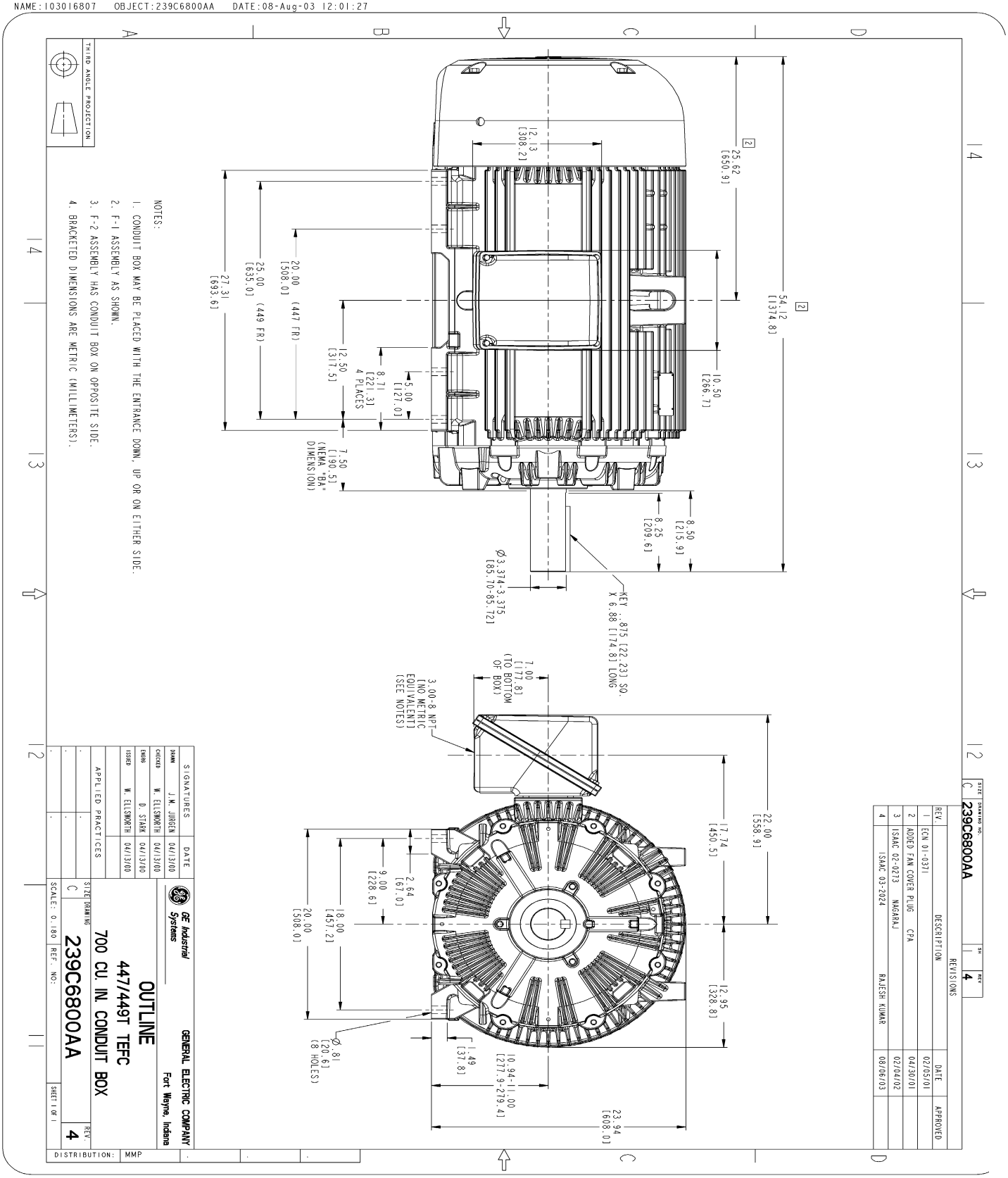
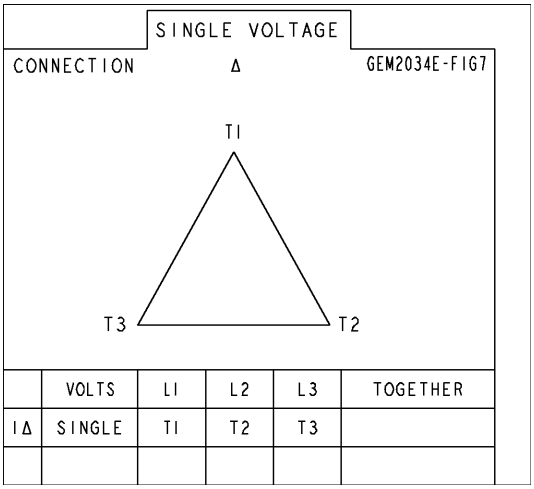

NAME:103016807 OBJECT:239C6800AA DATE:08-Aug-03 12:01:27
THIRD ANGLE PROJECTION
NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
12.13 [308.2]
25.62 [650.9]
54.12 [1374.8]
10.50 [266.7]
27.31 [693.6]
25.00 [635.0] (449 FR)
20.00 [508.0] (447 FR)
12.50 [317.5]
8.71 [221.3] 4 PLACES
5.00 [127.0]
7.50 [190.5] (NEMA "BA" DIMENSION)
8.25 [209.6]
8.50 [215.9]
Ø3.374-3.375 [85.70-85.72]
KEY .875 [22.23] SQ. X 6.88 [174.81] LONG
7.00 [177.8] (TO BOTTOM OF BOX)
3.00-8 NPT [NO METRIC EQUIVALENT] (SEE NOTES)
22.00 [558.9]
17.74 [450.5]
12.95 [328.8]
2.64 [67.0]
9.00 [228.6]
18.00 [457.2]
20.00 [508.0]
Ø.81 [20.6] (8 HOLES)
1.49 [37.8]
10.94-11.00 [277.9-279.4]
23.94 [608.0]
SIZE C 239C6800AA SH 1 REV 4
REVISIONS
REV. DESCRIPTION DATE APPROVED
1 ECN 01-0371 02/05/01
2 ADDED FAN COVER PLUG CPA 04/30/01
3 ISAAC 02-0273 NAGARAJ 02/04/02
4 ISAAC 03-2024 RAJESH KUMAR 08/06/03
SIGNATURES DATE
DRAWN J. M. JURGEN 04/13/00
CHECKED W. ELLSWORTH 04/13/00
ENGRG D. STARK 04/13/00
ISSUED W. ELLSWORTH 04/13/00
APPLIED PRACTICES
GE Industrial Systems
GENERAL ELECTRIC COMPANY
Fort Wayne, Indiana
OUTLINE
447/449T TEFC
700 CU. IN. CONDUIT BOX
SIZE C DRAWING 239C6800AA REV 4
SCALE: 0.180 REF. NO:
SHEET 1 OF 1
DISTRIBUTION: MMP

Marks:

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	115E4355AA1	115E4355LL1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	