GE
Power Conversion

Product Information Packet

November 8, 2016

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

Model Number:	**5KS324SAA104D**
Catalog Number:	**M9183**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6000AE

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:	**5KS324SAA104D**	**Estimated Weight:**	620 Lbs
Outline Drawing:	239C6000AE	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	X$D
Design Code:	32BD0110B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	60
Frame:	324T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	93.0 %
Output Power:	40HP 29.6KW	**Guaranteed Efficiency:**	92.4
RPM:	3565	**3/4 Load Efficiency:**	92.9
Voltage:	575	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	14.8
Amps - FL:	38.8	**Power Factor:**	83.0
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:5KS324SAA104D 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 200C VT OR 230C CT OR 200C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0 - 60 HZ, CT 8.6-60 HZ, CHP 60-75 HZ.

Additional Information:

2P - T EXTN
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: 32BD0110B**

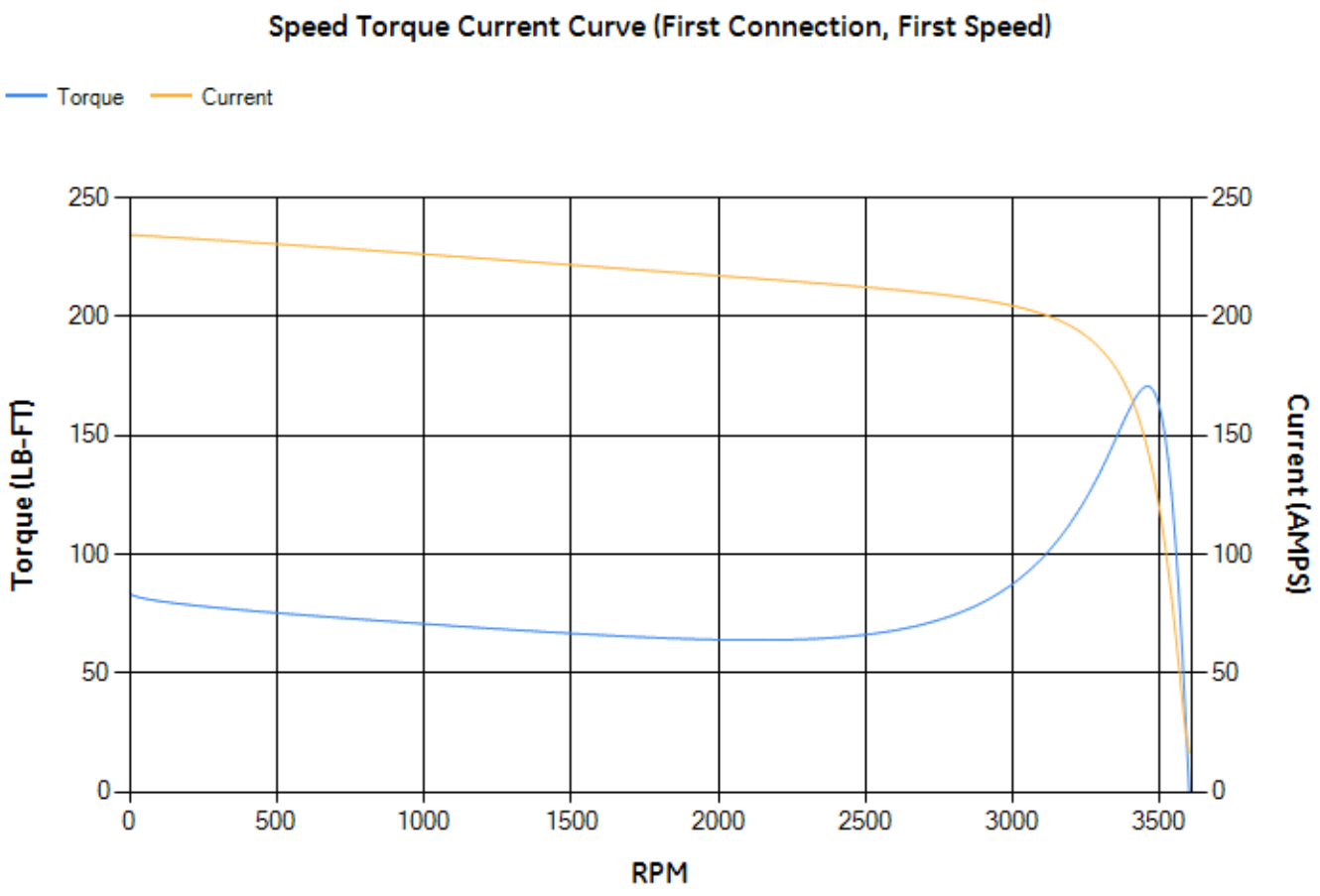
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.49	92.7	93.11	92.87	91.82	87.22	0.00
% PF	85.26	84.55	82.94	77.97	67.42	45.18	5.71
AMPS	47.48	43.94	38.73	31.02	24.19	19	16.54

TORQ(FL)#FT	58.9	**TORQ(LR)%FL**	142.09	**TORQ(BD)%FL**	289.7
AMPS(LR)	234.43	**PF AT START**	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 115 Lb-Ft Sq (4.84 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 23 seconds. Safe stall time at 100% voltage is 53 seconds cold, 28 seconds hot. Rotor inertia is 3.14 Lb-Ft Sq (0.13 Kg-meter Sq).

Open Circuit A-C:	0.611	**Short Circuit D-C:**	0.018
Short Circuit A-C:	0.041	**X/R Ratio:**	6.597
Stator Slots:	48	**Rotor Slots:**	38



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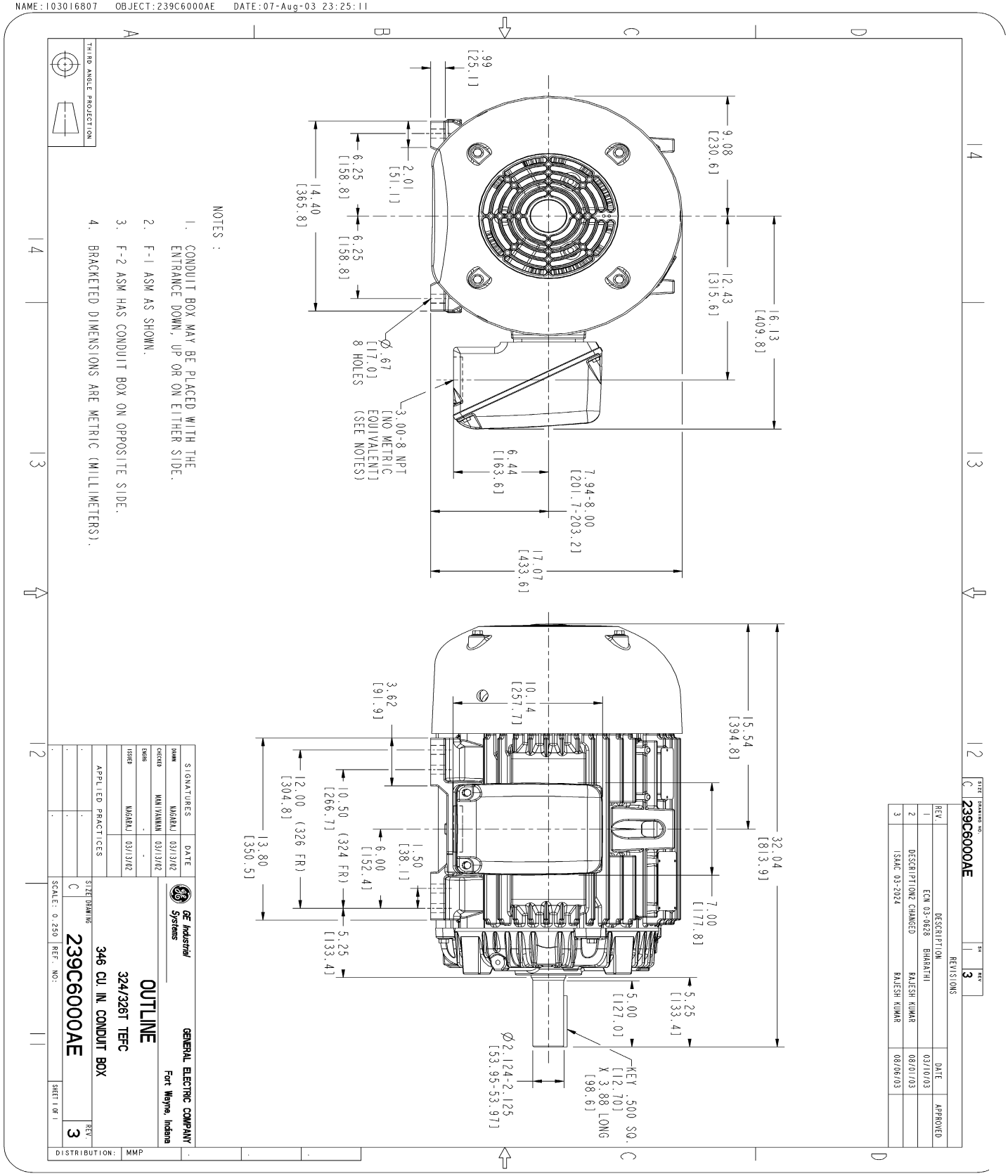


NOTES :

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. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

THIRD ANGLE PROJECTION

REVISIONS				
REV.	DESCRIPTION		DATE	APPROVED
1	ECN 03-0628	BHARATHI	03/10/03	
2	DESCRIPTION2 CHANGED	RAJESH KUMAR	08/01/03	
3	ISAAC 03-2024	RAJESH KUMAR	08/06/03	

SIZE C | DRAWING NO. 239C6000AE | SH 1 | REV 3

SIGNATURES		DATE
DRAWN	MAGARAJ	03/13/02
CHECKED	MANIVANNAN	03/13/02
ENGRG	-	-
ISSUED	MAGARAJ	03/13/02

APPLIED PRACTICES

GE Industrial Systems — GENERAL ELECTRIC COMPANY — Fort Wayne, Indiana

OUTLINE

324/326T TEFC

346 CU. IN. CONDUIT BOX

239C6000AE

SIZE C | DRAWING 3 | REV

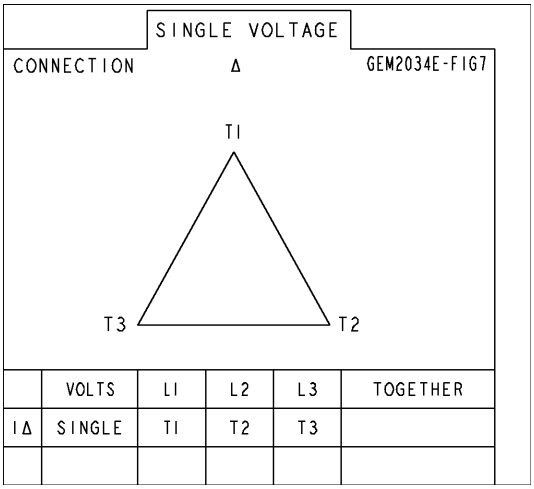
SCALE: 0.250 | REF. NO: | SHEET 1 OF 1

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	115E4200AA1	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	