

Product Information Packet

November 8, 2016

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

Model Number:	5KS444SAA404D4
Catalog Number:	M9537
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	239C6600AA

Accessory Connection Diagrams			
Bearing Thermocouple:	None	Heater:	None
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05



Marks:

MODEL NUMBER:	5KS444SAA404D4	Estimated Weight:	1700 Lbs
Outline Drawing:	239C6600AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	44BD4011B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	60
Frame:	444T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	93.6 %
Output Power:	75HP 55.5KW	Guaranteed Efficiency:	93.0
RPM:	890	3/4 Load Efficiency:	94.0
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	34.8
Amps - FL:	80.0	Power Factor:	75.0
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS444SAA404D4 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 215C 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 4-60 HZ, CHP 60-90 HZ.

Additional Information:

8P - T EXTN
 C/BOX 700 CU IN - 3.00" NPT
 OIL RESISTANT SLEEVING ON LEADS
 F1 MOUNTING

Performance Characteristics

1st Winding 1st Connection

Design: 44BD4011B

Marks:

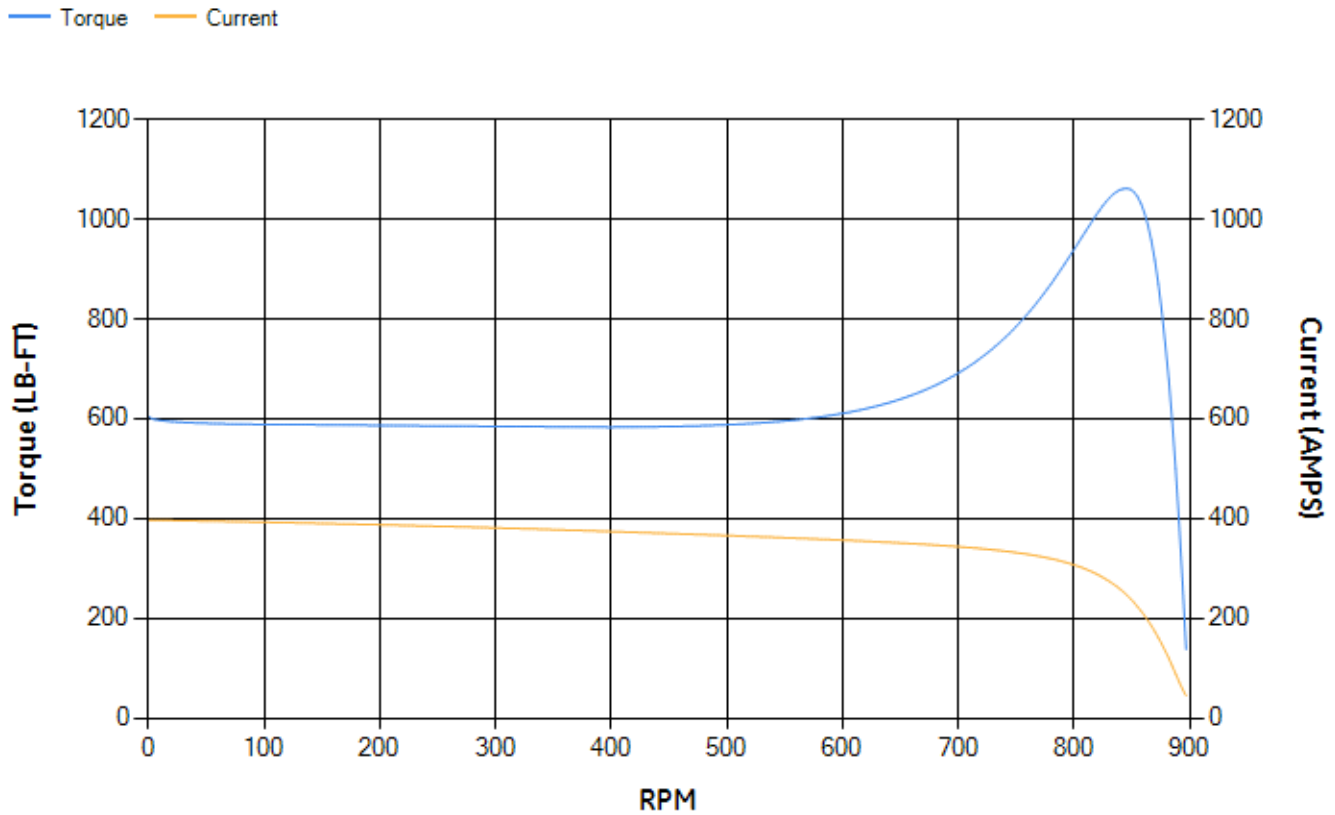
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.35	93.61	94.09	93.99	93.23	89.51	0.00
% PF	77.32	76.61	74.84	69.16	57.77	36.52	3.65
AMPS	97.25	90.05	79.76	64.79	52.13	42.95	38.87

TORQ(FL)#FT	443.13	TORQ(LR)%FL	136.27	TORQ(BD)%FL	239.05
AMPS(LR)	396.82	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 9115 Lb-Ft Sq (383.74 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 53 seconds. Safe stall time at 100% voltage is 118 seconds cold, 63 seconds hot. Rotor inertia is 54.42 Lb-Ft Sq (2.29 Kg-meter Sq).

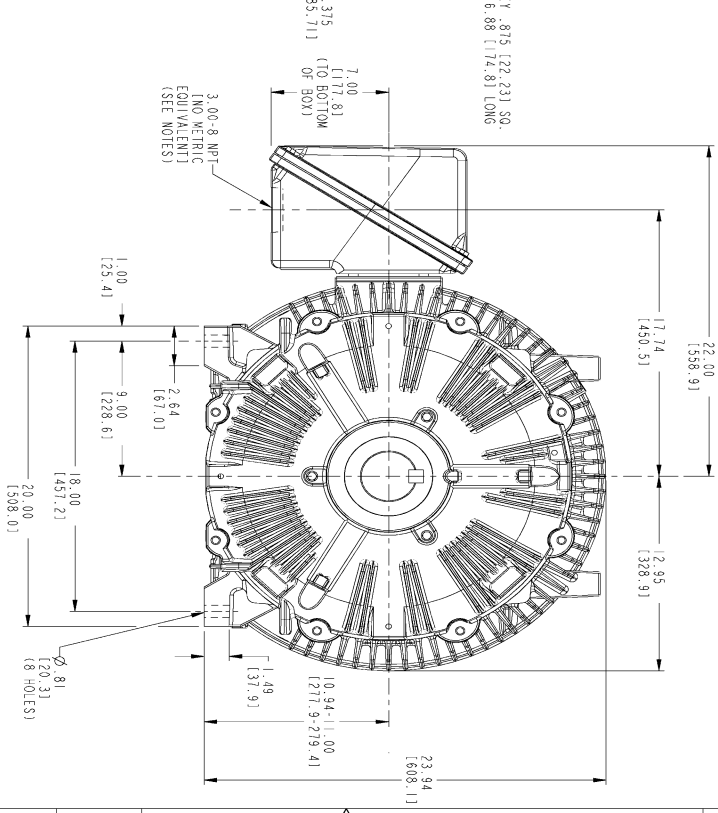
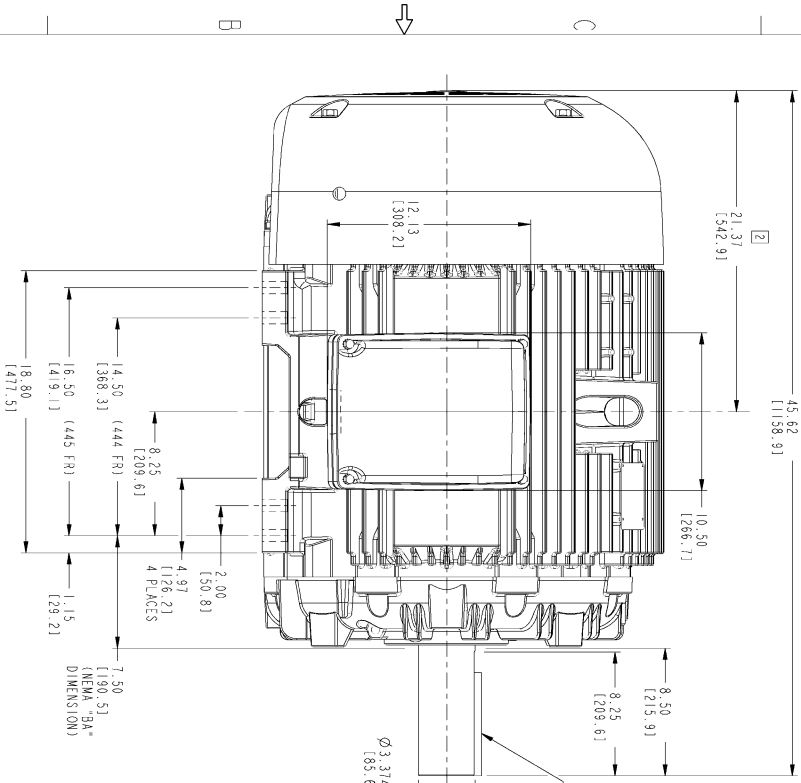
Open Circuit A-C:	0.395	Short Circuit D-C:	0.026
Short Circuit A-C:	0.034	X/R Ratio:	9.875
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

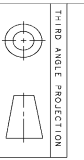


Marks:

REV.	DESCRIPTION	DATE	APPROVED
1	ECH 01-0311	02/05/01	
2	ADDED FAN COVER FIG. CPA	04/30/01	
3	SAC 02-0273 MARGAJ	02/04/02	
4	SAC 03-2024	08/06/03	
5	SAC 13-0248	03/22/13	

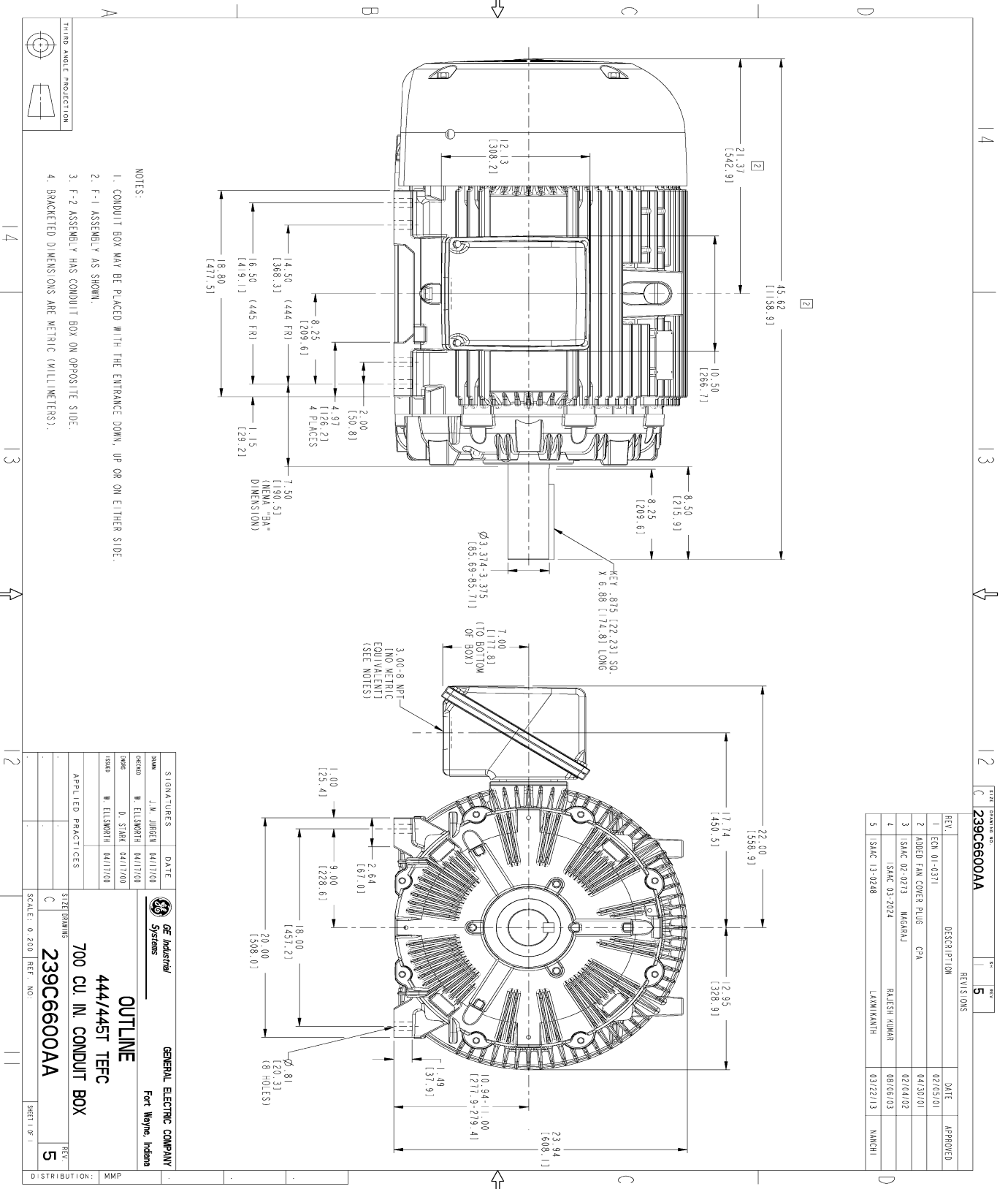


- NOTES:
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
 2. F-1 ASSEMBLY AS SHOWN.
 3. F-2 ASSEMBLY HAS CONDUIT BOX ON OPPOSITE SIDE.
 4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).



THIRD ANGLE PROJECTION

SIGNATURES	DATE	 GENERAL ELECTRIC COMPANY Fort Wayne, Indiana
J.M. JIRGEN 04/17/00 W. ELSWORTH 04/17/00 D. STARK 04/17/00 W. ELSWORTH 04/17/00		
APPLIED PRACTICES SIZE DRAWING SCALE: 0.200 REF. NO.		OUTLINE 444/445T TEFC 700 CU. IN. CONDUIT BOX 239C6600AA SHEET 1 OF 5



Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG01	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	