GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

April 1, 2021

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

Model Number:	**5KS444SAA308D7**
Catalog Number:	**M9133**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6600GX

Accessory Connection Diagrams

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

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Marks:

MODEL NUMBER:	**5KS444SAA308D7**	**Estimated Weight:**	1880 Lbs
Outline Drawing:	239C6600GX	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	44BD3081A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	444T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	6	**Nominal Efficiency:**	95.0 %
Output Power:	100HP 74KW	**Guaranteed Efficiency:**	94.5 %
RPM:	1190	**3/4 Load Efficiency:**	--
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	35.8
Amps - FL:	122.0	**Power Factor:**	81.0
Service Factor:	1.15	**Bearing - DE:**	6318ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
DE BRG 90BC03JP3, ODE BRG 90BC03JP3
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS444SAA308D7 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 230C 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 6-60 HZ, CHP 60-90 HZ.

Additional Information:

6P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
GROUND PAD
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 44BD3081A**

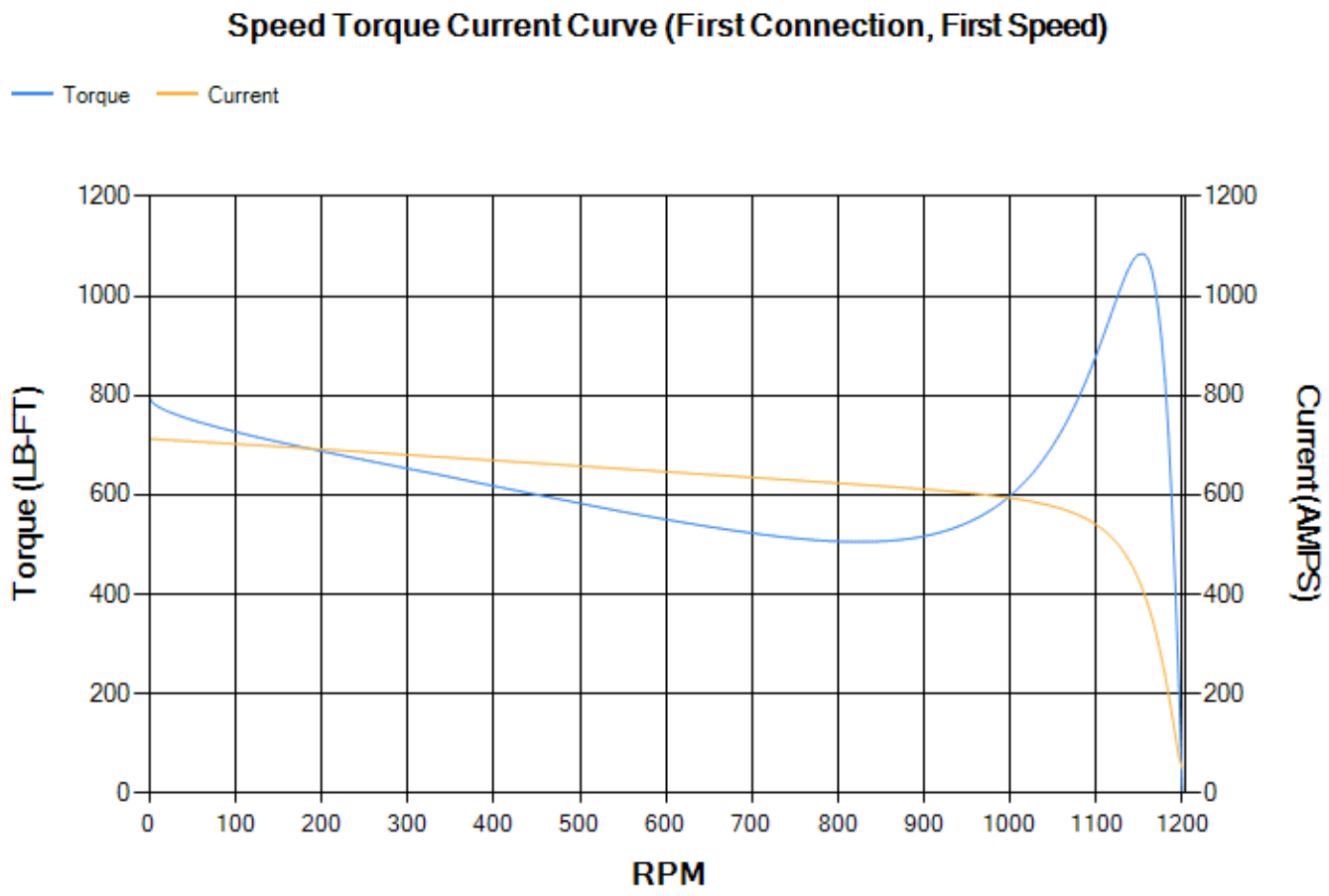
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.38	94.61	95.09	95.09	94.64	91.92	0.00
% PF	83.04	82.53	81.2	76.65	66.48	44.18	3.53
AMPS	149.29	137.84	121.22	96.31	74.38	57.61	49.89

TORQ(FL)#FT	440.81	**TORQ(LR)%FL**	180.49	**TORQ(BD)%FL**	245.76
AMPS(LR)	712.54	**PF AT START**	0.34		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 5269 Lb-Ft Sq (221.82 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 42 seconds. Safe stall time at 100% voltage is 83 seconds cold, 51 seconds hot. Rotor inertia is 77.95 Lb-Ft Sq (3.28 Kg-meter Sq).

Open Circuit A-C:	0.821	**Short Circuit D-C:**	0.025
Short Circuit A-C:	0.052	**X/R Ratio:**	9.321
Stator Slots:	72	**Rotor Slots:**	58



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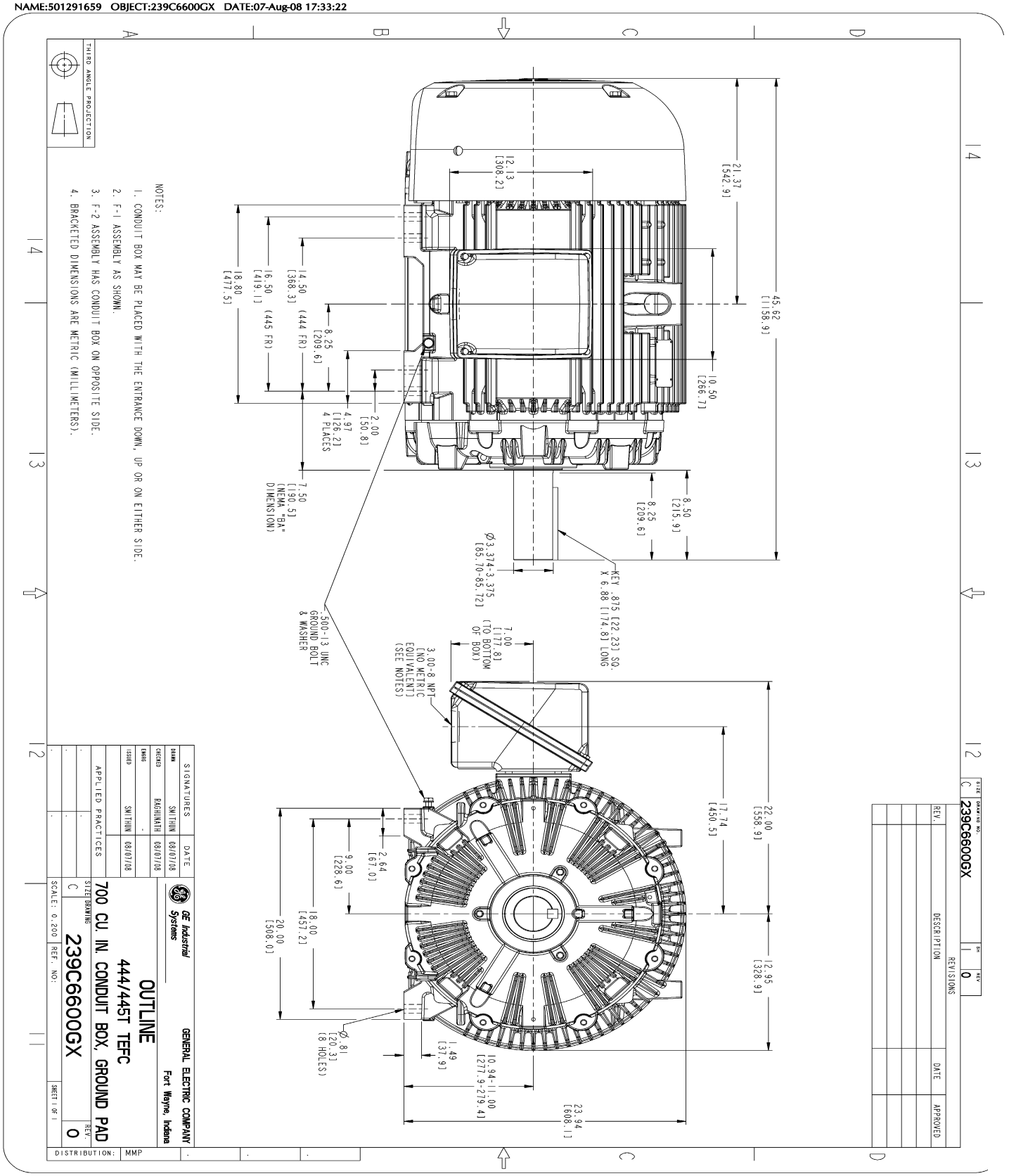


THIRD ANGLE PROJECTION

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).

SIGNATURES		DATE
DRAWN	SMITHUN	08/07/08
CHECKED	RAGHUNATH	08/07/08
ENGRG	-	
ISSUED	SMITHUN	08/07/08

APPLIED PRACTICES

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

OUTLINE
444/445T TEFC
700 CU. IN. CONDUIT BOX, GROUND PAD

SIZE C | DRAWING NO. 239C6600GX | REV. 0

SCALE: 0.200 | REF. NO: | SHEET 1 OF 1

DISTRIBUTION: MMP

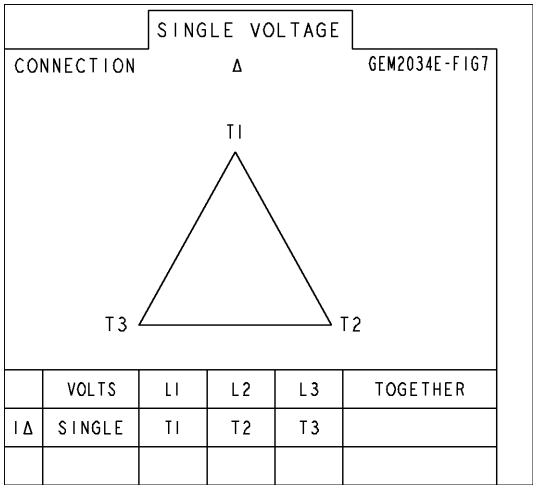
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

Marks:

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	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	