GE INDUSTRIAL MOTORS
a WOLONG *company*

Product Technical Information

August 14, 2020

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

Model Number:	**5KS444XAA100**
Catalog Number:	**M9003**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6H01AF

Accessory Connection Diagrams

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

Table of Contents

Marks:

MODEL NUMBER:	**5KS444XAA100**	**Estimated Weight:**	2020 Lbs
Outline Drawing:	239C6H01AF	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	44BD0197A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	444TSC	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	95.0 %
Output Power:	125HP 92.5KW	**Guaranteed Efficiency:**	94.5 %
RPM:	3580	**3/4 Load Efficiency:**	--
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	21.8
Amps - FL:	135.0	**Power Factor:**	91.0
Service Factor:	1.15	**Bearing - DE:**	6314ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
EXCEPTION TO IEEE-STD-841-2009: ESTIMATED
SOUND POWER LEVEL 92 DBA
DE BRG 70BC03JP30, ODE BRG 70BC03JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS444XAA100 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 -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
SURF TEMP 200C AT 1.15SF ON SINE-WAVE PWR
OR 200C VT OR 200C CT OR --C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0 - 60 HZ, CT 3-60 HZ, CHP -- HZ.

Additional Information:

2P - TS EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C FACE WITH 16.00 RABBIT ON DE
C/BOX 700 CU IN - 3.00" NPT
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
RABBETS AND PLUG THREADS.
GROUND PAD
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 44BD0197A**

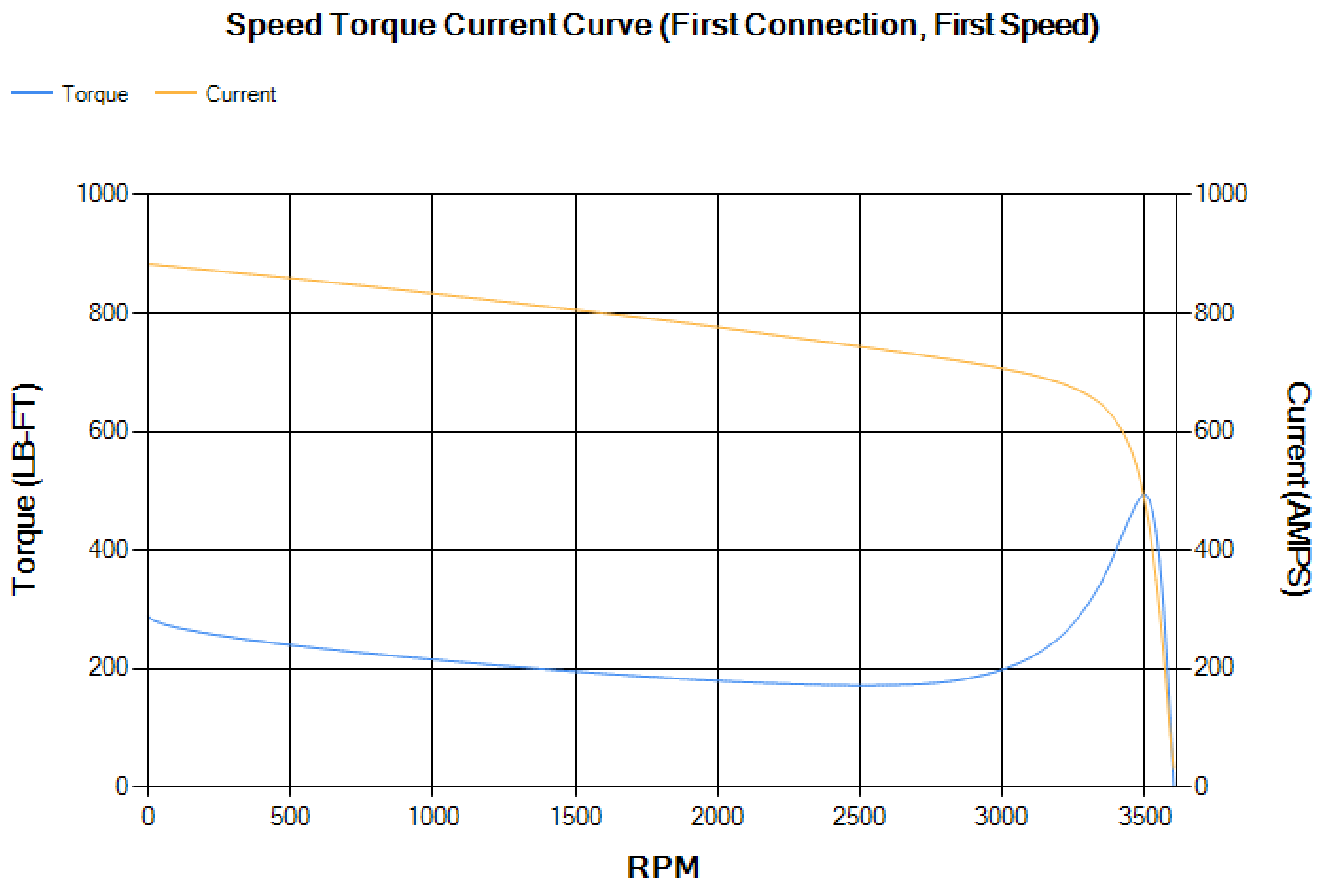
Marks:

LOAD %	**125.0**	**115.0**	**100.0**	**75.0**	**50.0**	**25.0**	**0.0**
% EFF	94.94	95.06	95.35	95.01	94.12	90.51	0.00
% PF	91.15	91.28	91.2	90.02	85.8	70.47	9.21
AMPS	168.99	155.07	134.54	102.59	72.43	45.86	30.38

TORQ(FL)#FT	183.33	**TORQ(LR)%FL**	157.73	**TORQ(BD)%FL**	269.19
AMPS(LR)	883.37	**PF AT START**	0.22		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 598 Lb-Ft Sq (25.18 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 46 seconds. Safe stall time at 100% voltage is 88 seconds cold, 55 seconds hot. Rotor inertia is 31.01 Lb-Ft Sq (1.31 Kg-meter Sq).

Open Circuit A-C:	2.094	**Short Circuit D-C:**	0.039
Short Circuit A-C:	0.075	**X/R Ratio:**	14.877
Stator Slots:	48	**Rotor Slots:**	38



Speed Torque Current Curve (First Connection, First Speed)

Model Number: 5KS444XAA100 | **August 14, 2020**

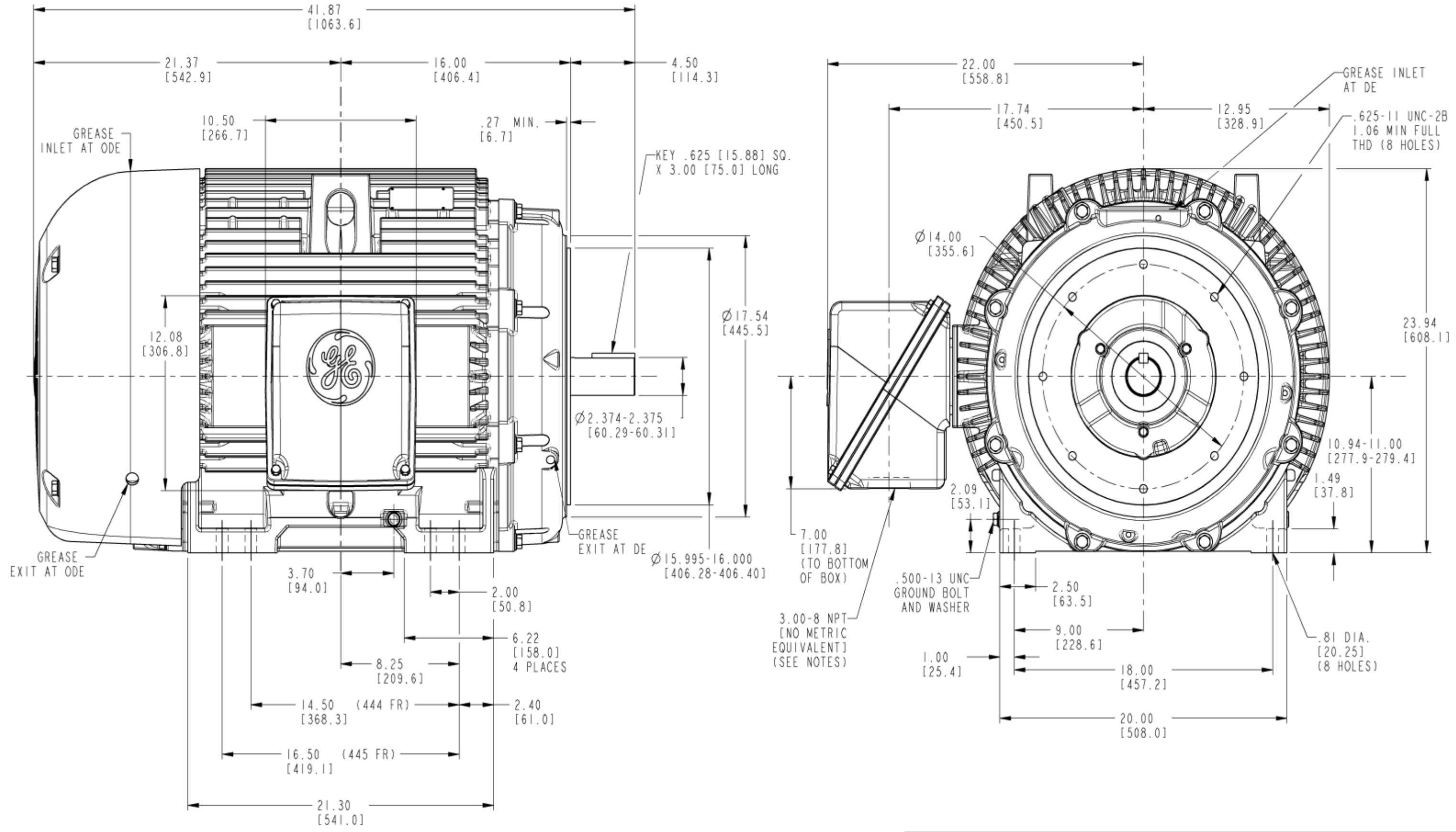
Marks:

SIZE	DRAWING NO.	REV	SHEET
C	239C6H01AF	000	1

PROPRIETARY INFORMATION

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED



NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.I.R.
4. ALL DIMENSIONS ARE IN INCHS.
   BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

THIRD ANGLE PROJECTION

SIGNATURES		DATE
MODEL	KISHORE	03/18/20
DETAIL	KISHORE	03/18/20
CHECKED	RAGHU	03/18/20
ENGRG	KALIDAS	03/18/20
MFG	-	-
QUALITY	-	-
ISSUED	KISHORE	03/18/20

SOLID MODEL: 239C6H01AF

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TITLE
OUTLINE
444/445 TSC TEFC X$D 841 ULTRA
700 CU. IN. CONDUIT BOX, GROUND PAD

SIZE	DRAWING	REV
C	239C6H01AF	000

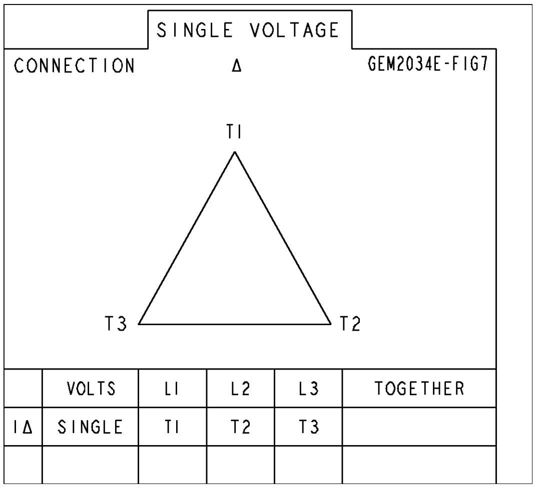
SCALE: 0.200 | REF. No: 239C6H01AA | SHEET 1 OF 1

DISTRIBUTION: . . . . .

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	115E4357KA1	115E4354LL1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841MA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	