GE INDUSTRIAL MOTORS
a **WOLONG** *company*

Product Technical Information

June 25, 2020

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

Model Number:	**5KS444XAA114D3**
Catalog Number:	**M8919**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6H00AC

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:	**5KS444XAA114D3**	**Estimated Weight:**	2020 Lbs
Outline Drawing:	239C6H00AC	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	44BD0197B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	444TS	**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:**	94.9 %
Voltage:	575	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	20.4
Amps - FL:	108.0	**Power Factor:**	91.5
Service Factor:	1.15	**Bearing - DE:**	6314ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
EXCEPTION TO EEE-STD-841-2009:
SOUND POWER LEVEL 92 DBA
DE BRG 70BC03JP30, ODE BRG 70BC03JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS444XAA114D3 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
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: 44BD0197B**

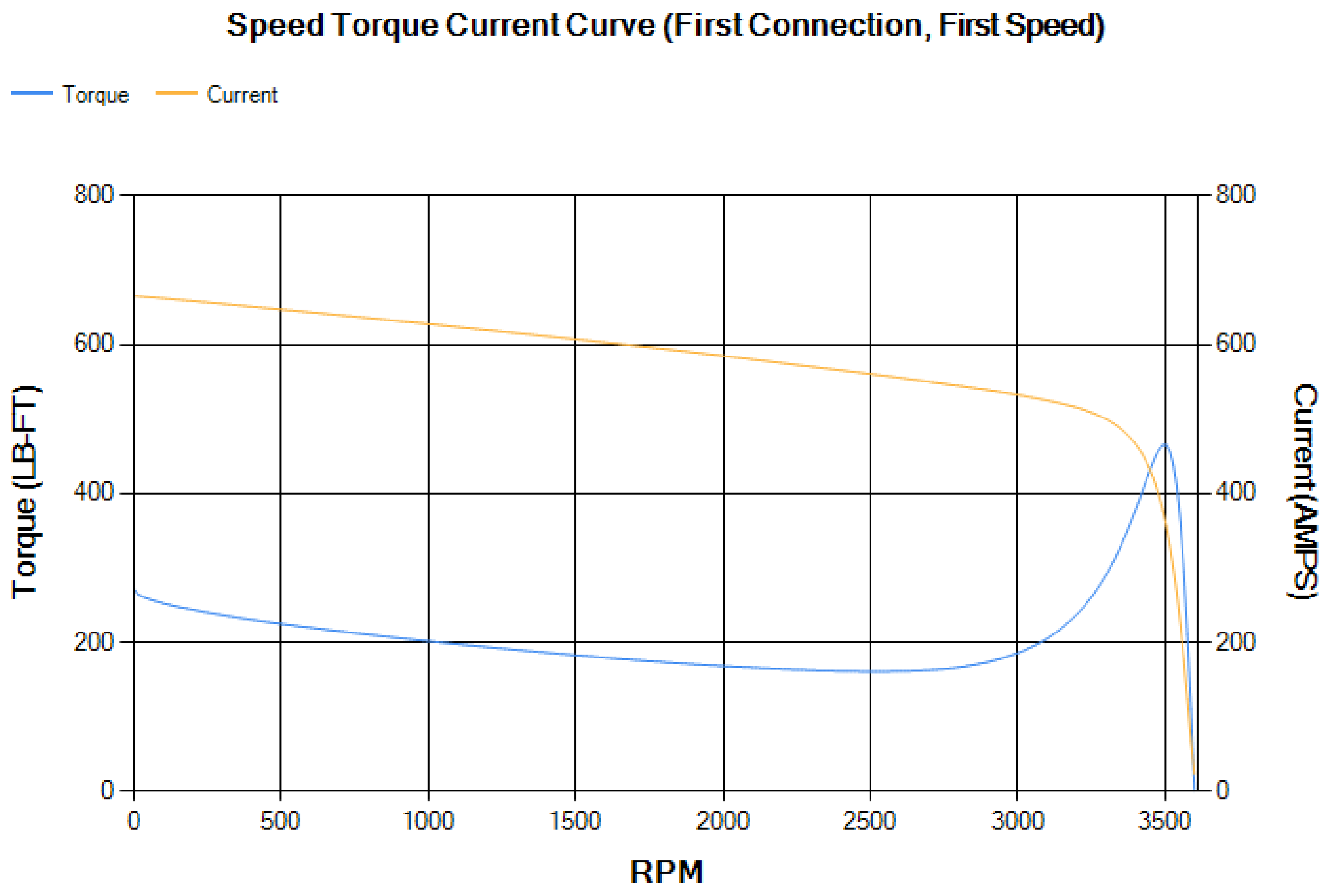
Marks:

LOAD %	**125.0**	**115.0**	**100.0**	**75.0**	**50.0**	**25.0**	**0.0**
% EFF	94.75	94.89	95.22	94.94	94.11	90.59	0.00
% PF	90.99	91.22	91.29	90.4	86.69	72.34	9.65
AMPS	135.7	124.36	107.68	81.78	57.36	35.71	22.84

TORQ(FL)#FT	183.41	**TORQ(LR)%FL**	147.97	**TORQ(BD)%FL**	254
AMPS(LR)	665.64	**PF AT START**	0.22		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 566 Lb-Ft Sq (23.83 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 47 seconds. Safe stall time at 100% voltage is 93 seconds cold, 57 seconds hot. Rotor inertia is 31.01 Lb-Ft Sq (1.31 Kg-meter Sq).

Open Circuit A-C:	2.086	**Short Circuit D-C:**	0.039
Short Circuit A-C:	0.075	**X/R Ratio:**	14.812
Stator Slots:	48	**Rotor Slots:**	38



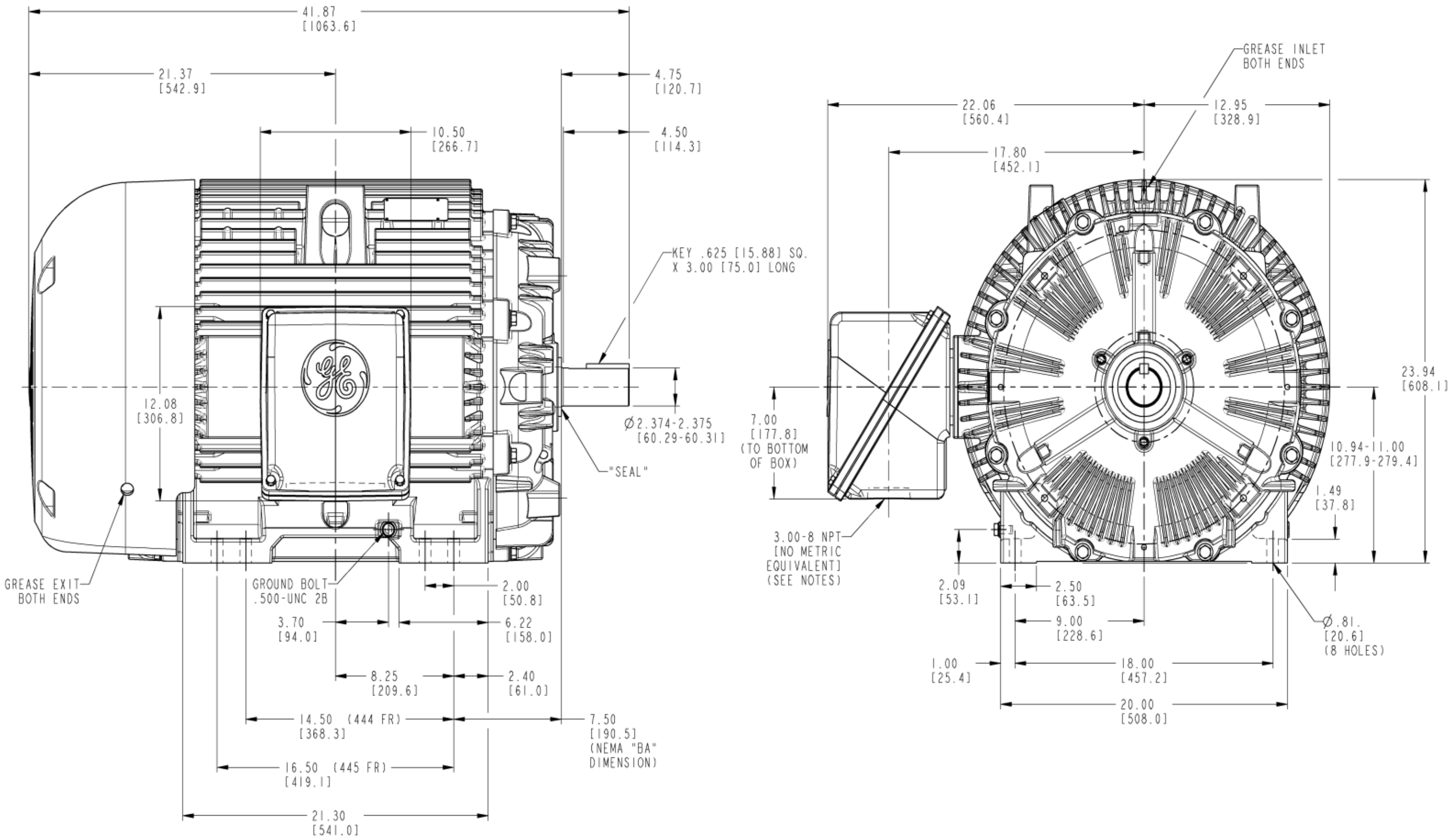
Marks:

SIZE	DRAWING NO.	REV	SHEET
C	239C6H00AC	001	1

PROPRIETARY INFORMATION

REVISIONS

REV.	DESCRIPTION		DATE	APPROVED
1	ISAAC# 18-0869	SREEDEVI	11/20/18	PRASHANTH



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-CONDUIT BOX ON OPPOSITE SIDE.
4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
5. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.I.R.

THIRD ANGLE PROJECTION

SIGNATURES		DATE
MODEL	NAGARAJ	11/09/17
DETAIL	NAGARAJ	11/09/17
CHECKED	RAVI M	11/09/17
ENGRG	-	-
MFG	-	-
QUALITY	-	-
ISSUED	RAVI M	11/09/17

SOLID MODEL: 239C6H00AC

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TITLE

OUTLINE
444/445 TS TEFC X$D 841
700 CU. IN. CONDUIT BOX, .0015 SHAFT RUNOUT

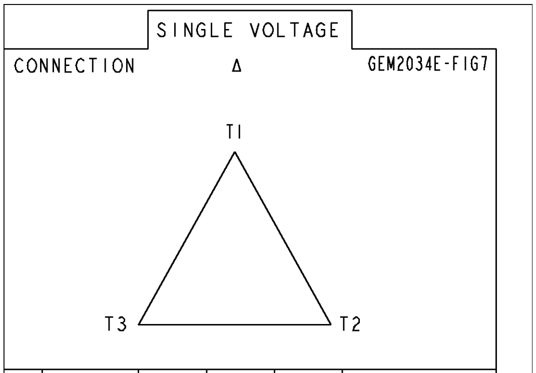
SIZE	DRAWING	REV
C	239C6H00AC	001

SCALE: 0.200 | REF. No: 239C6600YH | SHEET 1 OF 1

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	115E4354AA1	115E4354LL1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly

Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly

Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories

Part Description	Part#
Brake	
Tachometer	