



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 6, 2021

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

Model Number:	5KS447XAA374C
Catalog Number:	M9386
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6800ZB

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:	5KS447XAA374C	Estimated Weight:	2940 Lbs
Outline Drawing:	239C6800ZB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD3014B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	447T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.4 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	38.0
Amps - FL:	136.0	Power Factor:	86.0
Service Factor:	1.15	Bearing - DE:	NU 318
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

ROLLER BEARING - FOR BELTED LOAD ONLY

DE BRG 90RU03M, ODE BRG 90BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS447XAA374C 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 215C CT OR 200C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0 - 60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

MAX RADIAL LOAD: 6000 LBF AT 4.25"

FROM SHAFT SHOULDER



Additional Information:

6P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 CU IN - 3.00" NPT
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.002" 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.
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 49BD3014B

Marks:

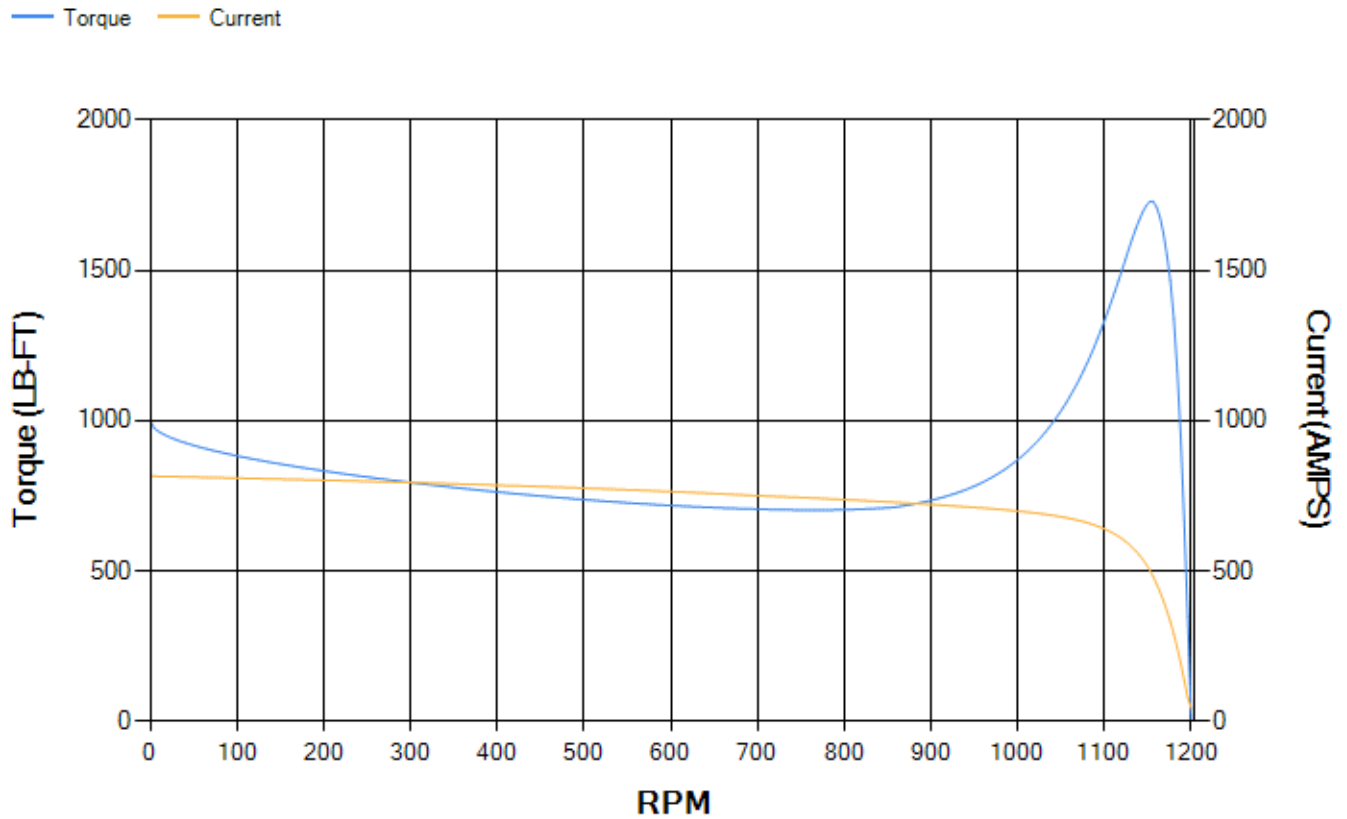
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.12	95.35	95.84	95.91	95.68	93.66	0.00
% PF	86.56	86.48	85.94	83.29	76	55.45	3.82
AMPS	170.52	156.63	136.36	105.45	77.23	54.06	42.35

TORQ(FL)#FT	660.77	TORQ(LR)%FL	150.88	TORQ(BD)%FL	261.64
AMPS(LR)	815.26	PF AT START	0.27		

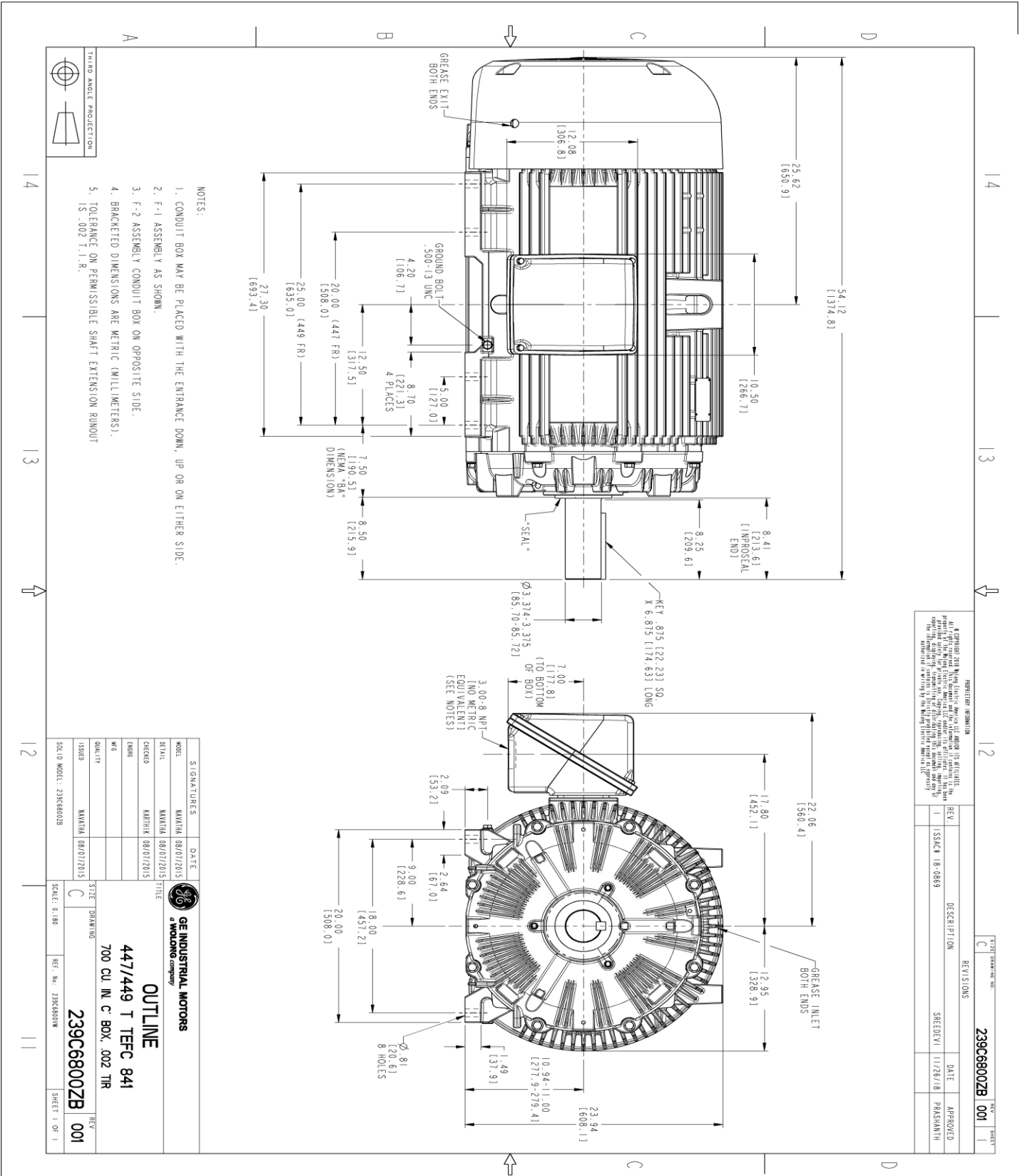
This motor is capable of two cold or one hot start with a maximum connected load inertia of 15238 Lb-Ft Sq (641.52 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 95 seconds. Safe stall time at 100% voltage is 173 seconds cold, 114 seconds hot. Rotor inertia is 175.39 Lb-Ft Sq (7.38 Kg-meter Sq).

Open Circuit A-C:	1.242	Short Circuit D-C:	0.034
Short Circuit A-C:	0.059	X/R Ratio:	12.813
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



- 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 .002 T.I.R.

REVISION INFORMATION

REV.	DESCRIPTION	DATE	APPROVED
1	ISSUE# 18-0869	11/26/18	PARSHANTH

239C6800ZB 001

SIGNATURES	DATE
MODEL: MAMTHA 08/07/2015	
REVIEW: MAMTHA 08/07/2015	
CHECKED: MAMTHA 08/07/2015	
DRAWN:	
QUALITY:	
ISSUED: MAMTHA 08/07/2015	
SCALE: 0.180	
REF. NO: 239C6800W	

GE INDUSTRIAL MOTORS
A WOLONG COMPANY

OUTLINE
447/449 T TFC 841
700 CU IN. C BOX, 002 THR

239C6800ZB 001

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LF1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	235A4575GS5	235A4575GS5

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	

