



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

# Product Technical Information

October 24, 2020

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

<b>Model Number:</b>	<b>5KS447XAA363C</b>
<b>Catalog Number:</b>	<b>M9361</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6800ZB

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

<b>MODEL NUMBER:</b>	<b>5KS447XAA363C</b>	<b>Estimated Weight:</b>	2940 Lbs
<b>Outline Drawing:</b>	239C6800ZB	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	49BD3014A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	447T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	95.8 %
<b>Output Power:</b>	150HP 111KW	<b>Guaranteed Efficiency:</b>	95.4 %
<b>RPM:</b>	1190	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	38.7
<b>Amps - FL:</b>	170.0	<b>Power Factor:</b>	86.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	NU 318
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

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Stamped Nameplate Notes:

IEEE-STD-841-2009

ROLLER BEARING - FOR BELTED LOAD ONLY

DE BRG 90RU03M, ODE BRG 90BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS447XAA363C 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: 49BD3014A**

**Marks:**

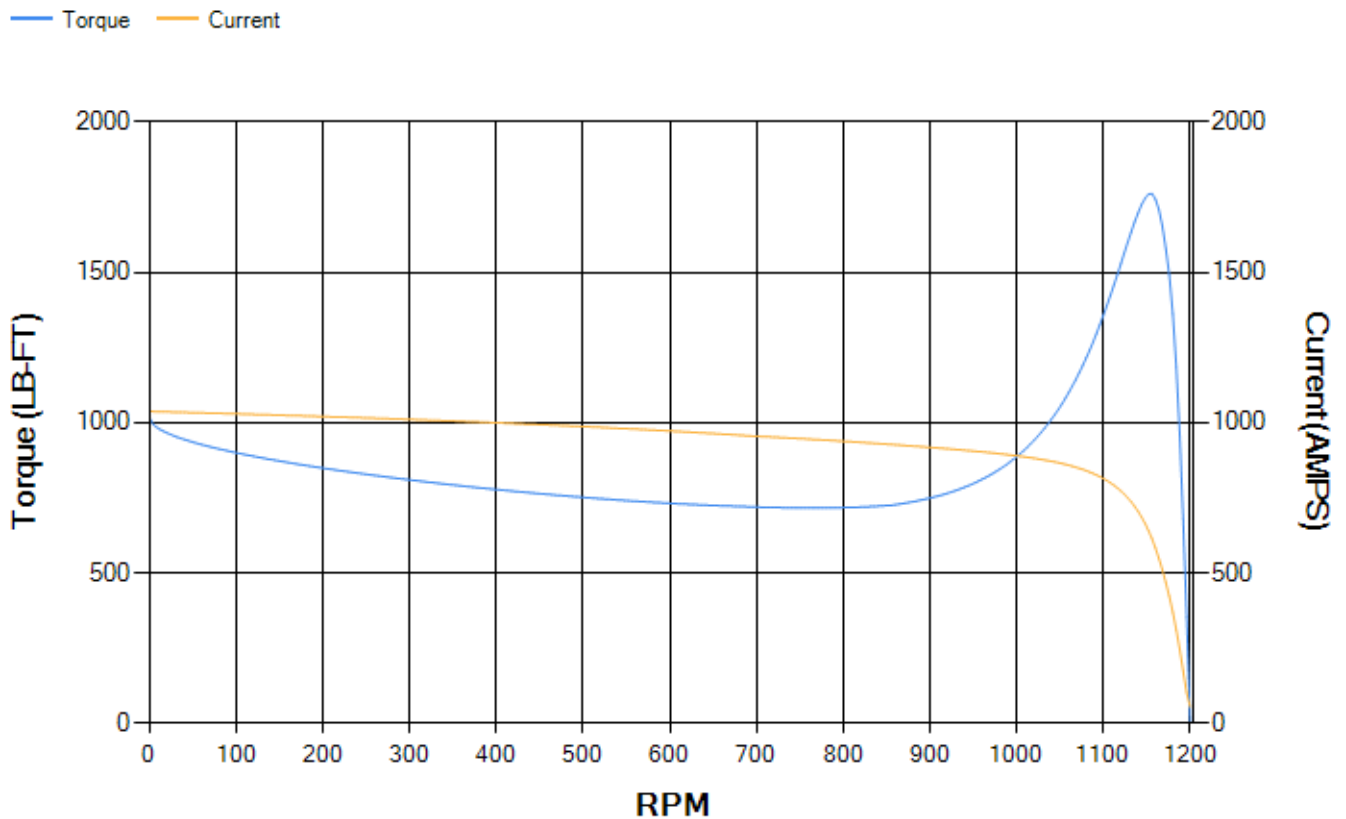
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.17	95.39	95.87	95.92	95.67	93.62	0.00
% PF	86.55	86.43	85.82	83.04	75.55	54.81	3.79
AMPS	213.06	195.82	170.63	132.19	97.12	68.4	53.96

<b>TORQ(FL)#FT</b>	660.68	<b>TORQ(LR)%FL</b>	153.82	<b>TORQ(BD)%FL</b>	266.53
<b>AMPS(LR)</b>	1037.48	<b>PF AT START</b>	0.27		

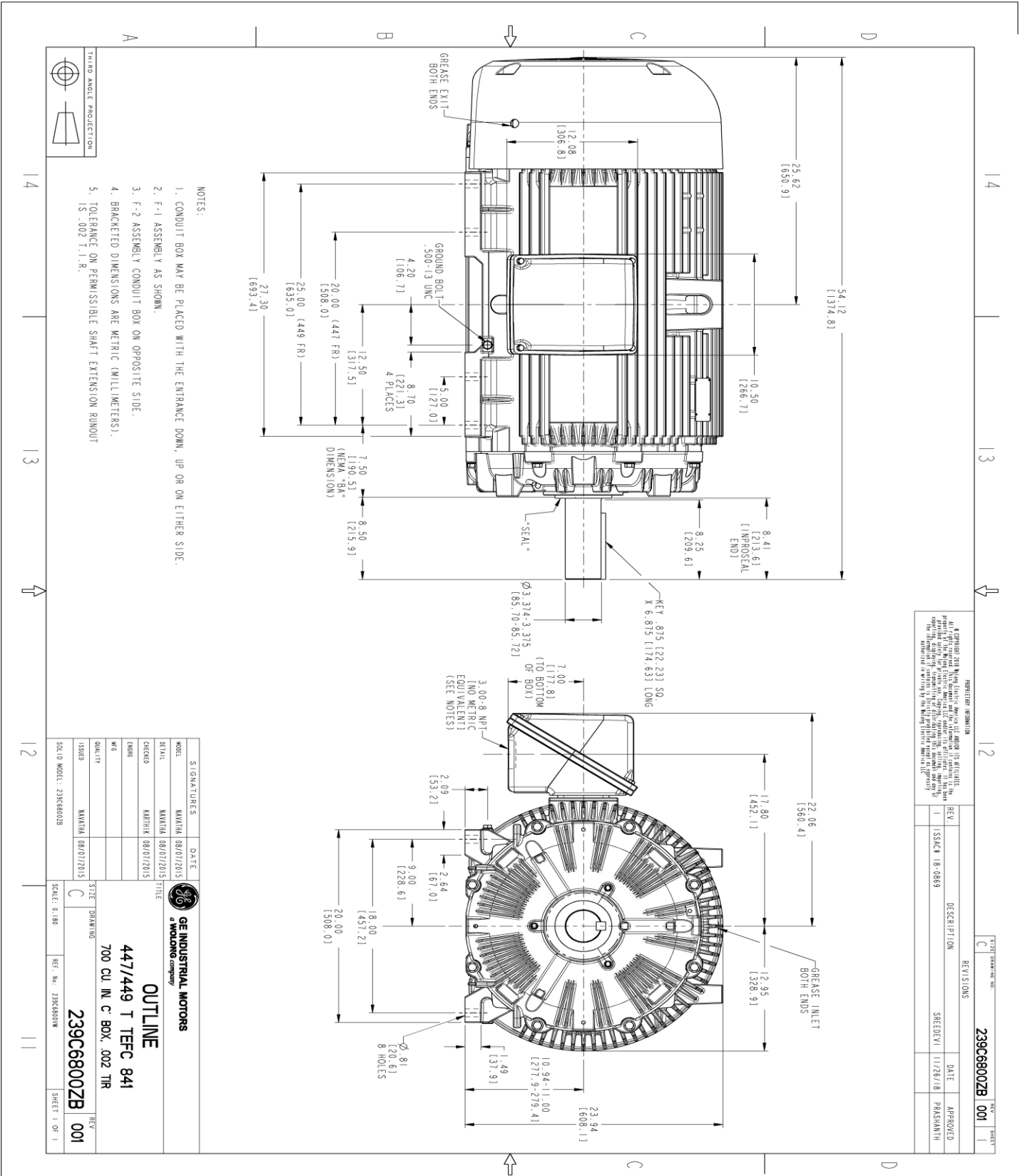
This motor is capable of two cold or one hot start with a maximum connected load inertia of 15474 Lb-Ft Sq (651.46 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 94 seconds. Safe stall time at 100% voltage is 170 seconds cold, 113 seconds hot. Rotor inertia is 175.39 Lb-Ft Sq (7.38 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.242	<b>Short Circuit D-C:</b>	0.034
<b>Short Circuit A-C:</b>	0.059	<b>X/R Ratio:</b>	12.743
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	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

SHEET DRAWING NO. **239C6800ZB 001**

REV. 1 OF 1

SIGNATURES	DATE
MODEL: MAMTHA 08/07/2015	
REVIEW: MAMTHA 08/07/2015	
CHECKED: KARTHICK 08/07/2015	
DESIGN: MAMTHA 08/07/2015	
ISSUED: MAMTHA 08/07/2015	

**GE INDUSTRIAL MOTORS**  
A WOLONG COMPANY

**OUTLINE**  
447/449 T TFC 841  
700 CU IN. C BOX, 502 THR

SCALE: 0.180 REF. NO: 239C6800W

**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	

