



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.

Model Number:	5KS449XAA351C
Catalog Number:	M9365
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		

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Marks:

MODEL NUMBER:	5KS449XAA351C	Estimated Weight:	3060 Lbs
Outline Drawing:	239C6800ZB	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD3013B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	49.2
Amps - FL:	182.0	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:5KS449XAA351C 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 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 20-60 HZ, CHP 60-90 HZ.

MAX RADIAL LOAD: 5800 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: 49BD3013B

Marks:

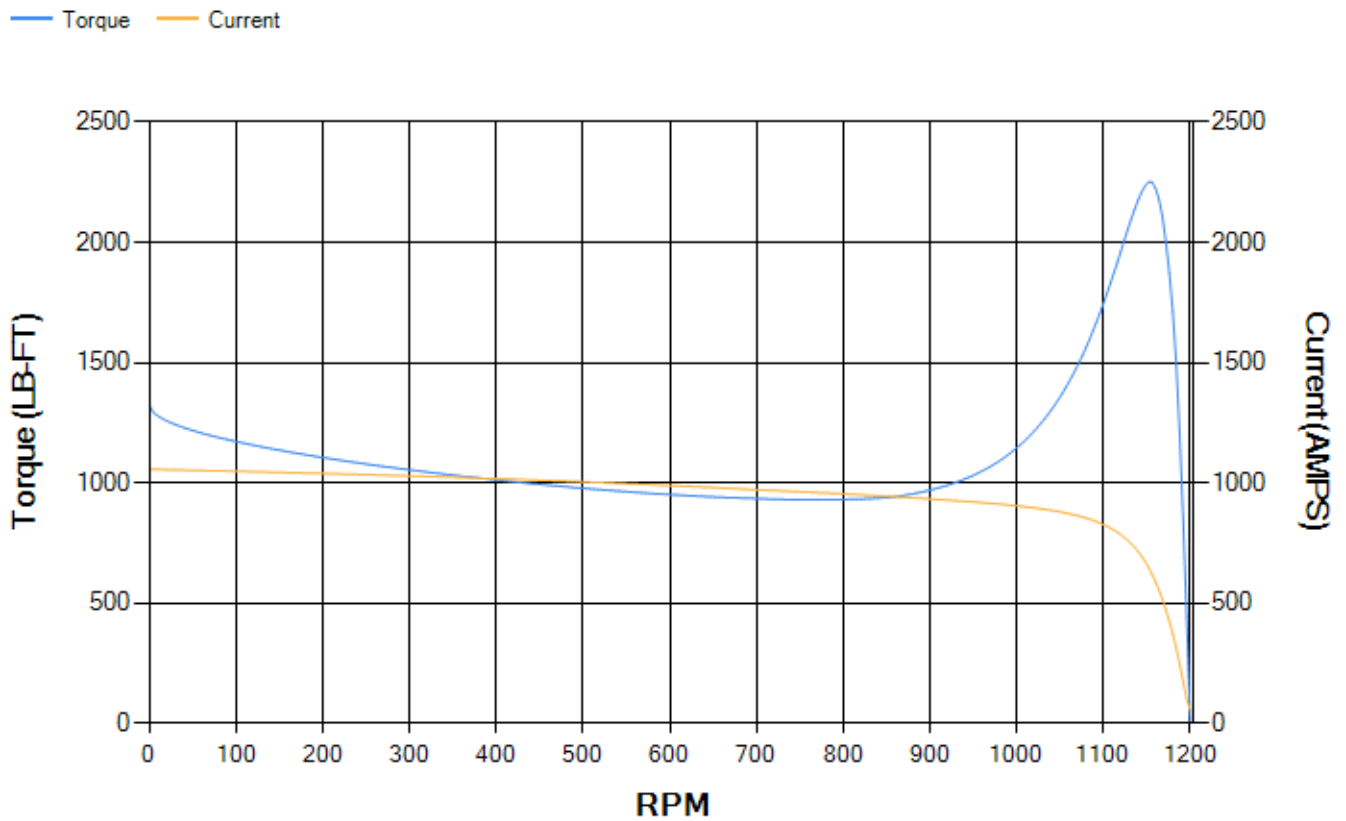
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.93	95.21	95.77	95.97	95.9	94.24	0.00
% PF	86.48	86.49	86.08	83.66	76.65	56.28	3.44
AMPS	228.01	209.13	181.66	139.89	101.85	70.58	54.91

TORQ(FL)#FT	881.84	TORQ(LR)%FL	149.94	TORQ(BD)%FL	255.18
AMPS(LR)	1056.01	PF AT START	0.27		

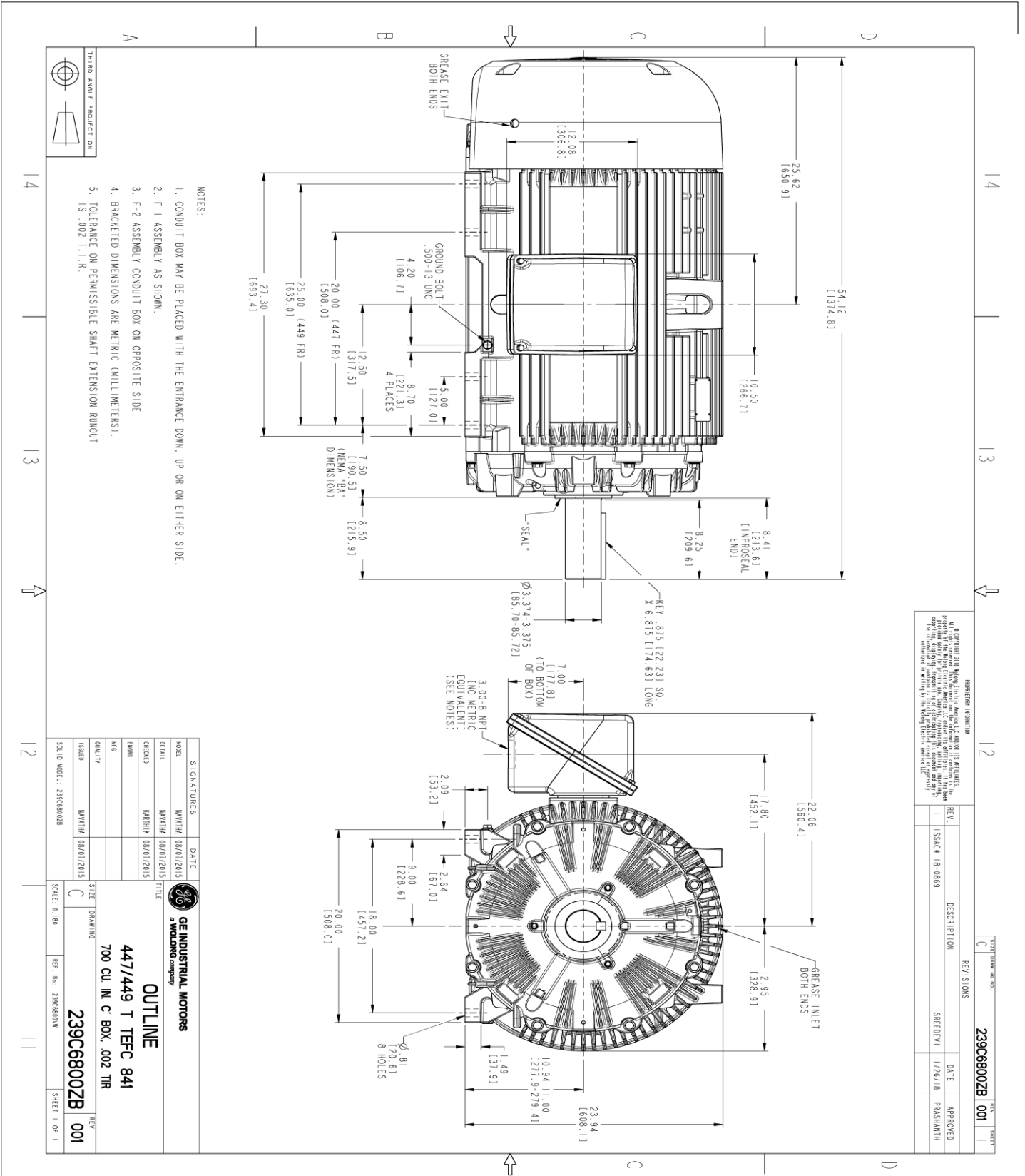
This motor is capable of two cold or one hot start with a maximum connected load inertia of 13695 Lb-Ft Sq (576.56 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 65 seconds. Safe stall time at 100% voltage is 142 seconds cold, 78 seconds hot. Rotor inertia is 192.44 Lb-Ft Sq (8.1 Kg-meter Sq).

Open Circuit A-C:	1.132	Short Circuit D-C:	0.032
Short Circuit A-C:	0.054	X/R Ratio:	12.147
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

SHEET DRAWING NO. **239C6800ZB 001**

SIGNATURES	DATE
MODEL: MAMTHA 08/07/2015	
REVIEW: MAMTHA 08/07/2015	
CHECKED: MAMTHA 08/07/2015	
DRAWN:	
DATE:	
QUALITY:	
ISSUED: MAMTHA 08/07/2015	
SOL ID MODEL: 239C6800ZB	

GE INDUSTRIAL MOTORS
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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	

