



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

February 15, 2021

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

Model Number:	5KS449SAA123D10
Catalog Number:	M8960
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6800ARK

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:	5KS449SAA123D10	Estimated Weight:	2820 Lbs
Outline Drawing:	239C6800ARK	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD0194A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449TS	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	95.8 %
Output Power:	300HP 222KW	Guaranteed Efficiency:	95.4 %
RPM:	3580	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	46.8
Amps - FL:	317.0	Power Factor:	92.5
Service Factor:	1.15	Bearing - DE:	6314ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6314ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 FOR DIRECT COUPLED LOAD ONLY
 DE BRG 70BC03JP3, ODE BRG 70BC03JP3
 ROT CW FACING ODE LEAD/PH SEQ 1-2-3/1-2-3
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449SAA123D10 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP ---C AT 1.15SF ON SINE-WAVE PWR
 OR ---C VT OR ---C CT OR ---C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT --- HZ, CT --- HZ, CHP --- HZ.



Additional Information:

2P - TS EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
HEAT STABILIZED BEARINGS
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 49BD0194A

Marks:

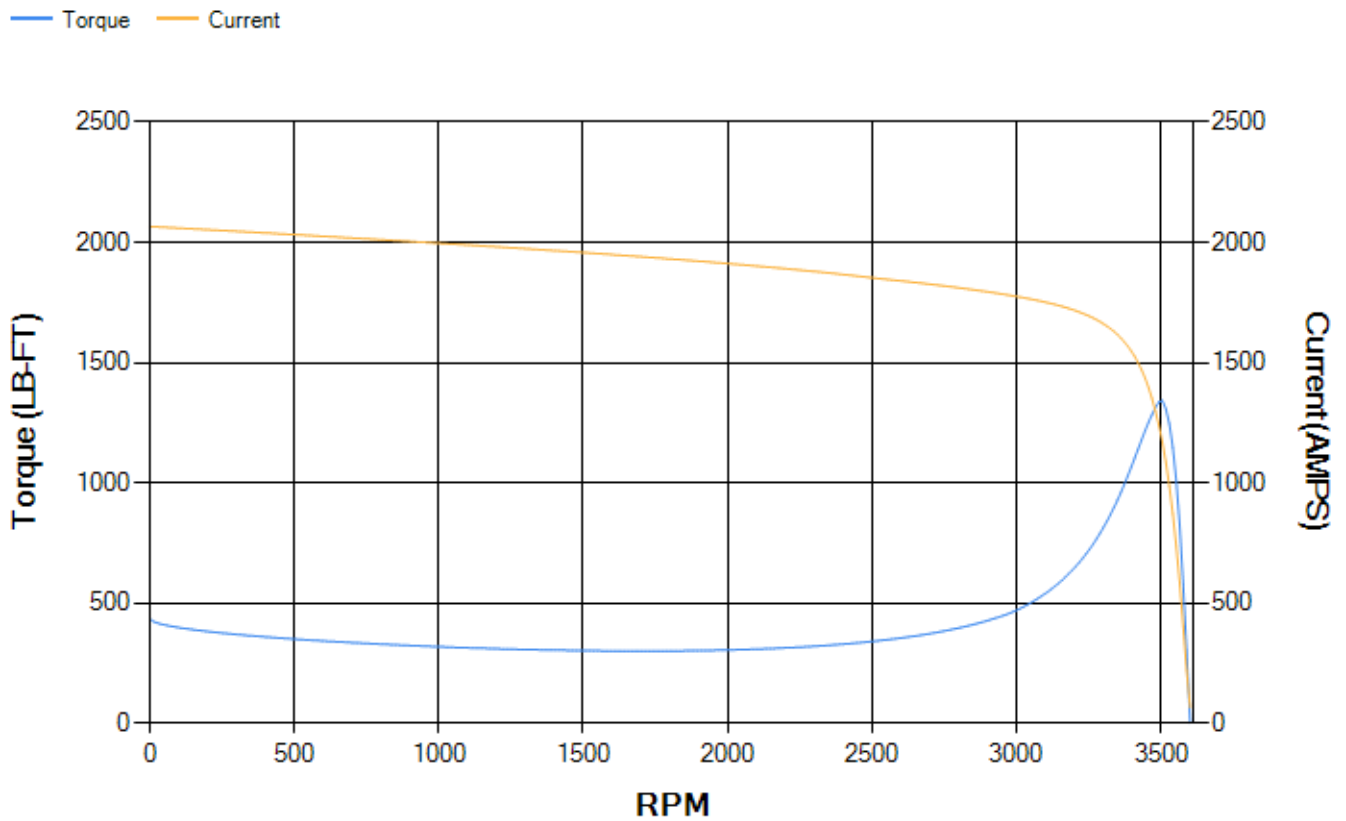
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.53	95.74	96.22	96.31	96.17	94.51	0.00
% PF	92.21	92.36	92.34	91.38	87.64	72.89	5.24
AMPS	398.46	365.17	315.98	239.29	166.56	101.89	65.26

TORQ(FL)#FT	440.19	TORQ(LR)%FL	99.02	TORQ(BD)%FL	304.91
AMPS(LR)	2066.21	PF AT START	0.18		

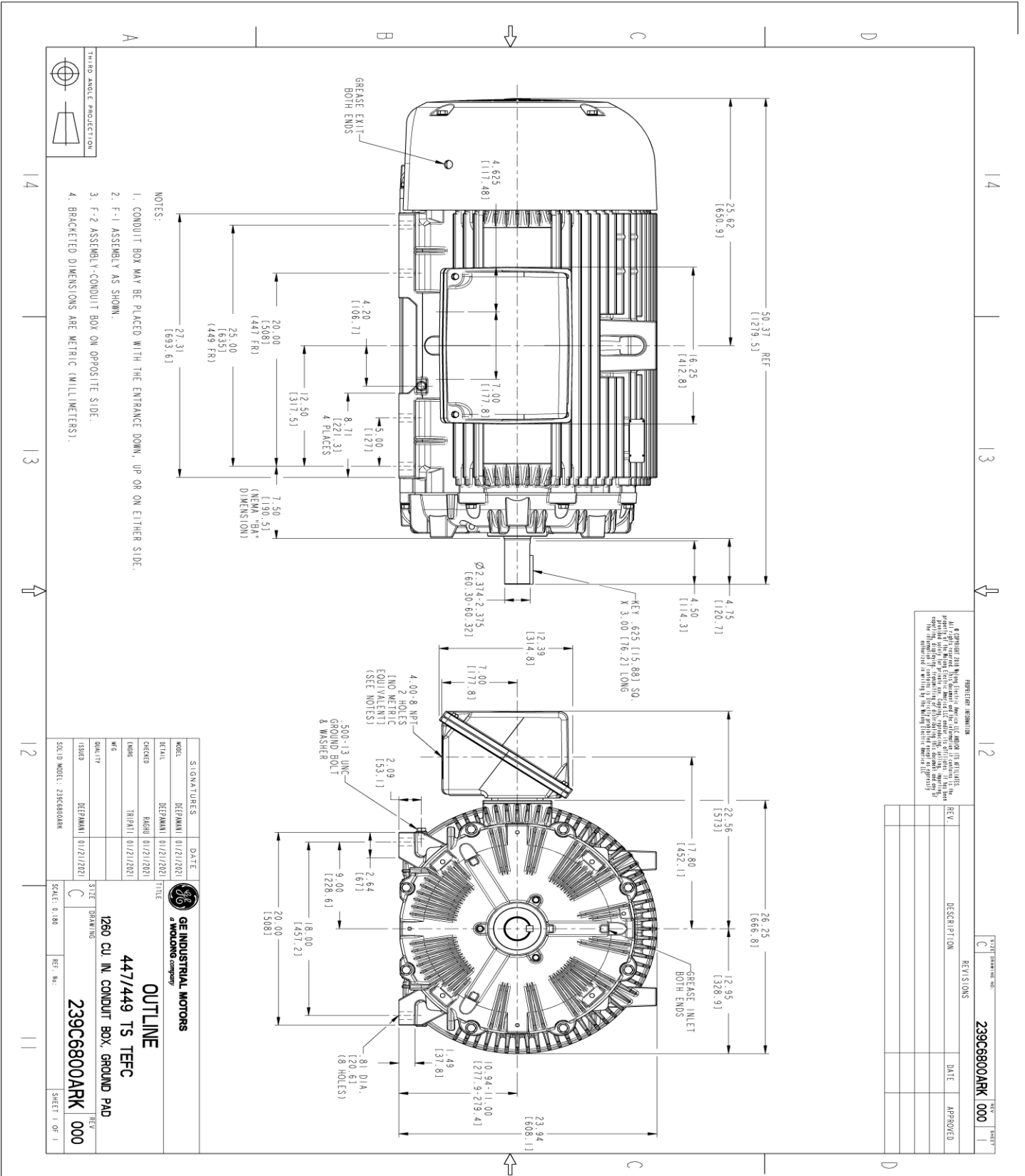
This motor is capable of two cold or one hot start with a maximum connected load inertia of 650 Lb-Ft Sq (27.36 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 30 seconds. Safe stall time at 100% voltage is 83 seconds cold, 36 seconds hot. Rotor inertia is 50.39 Lb-Ft Sq (2.12 Kg-meter Sq).

Open Circuit A-C:	2.129	Short Circuit D-C:	0.035
Short Circuit A-C:	0.07	X/R Ratio:	13.314
Stator Slots:	48	Rotor Slots:	38

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).

PROPERTY INFORMATION
 GE Industrial Motors
 12345 Industrial Blvd
 Cincinnati, OH 45215
 © 2021 GE. All rights reserved.
 This drawing is the property of GE Industrial Motors and is not to be reproduced without the written permission of GE Industrial Motors.

REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	TITLE
MODEL	DEFMANN	01/21/2021	DESIGNER
REVISED	DEFMANN	01/21/2021	DESIGNER
CHECKED	BAHAI	01/21/2021	DESIGNER
DRAWN	TRINATI	01/21/2021	DESIGNER
W/E			
QUALITY	DEFMANN	01/21/2021	DESIGNER
ISSUED			
SCALE: 0.180			

GE INDUSTRIAL MOTORS
 a WOLONG company

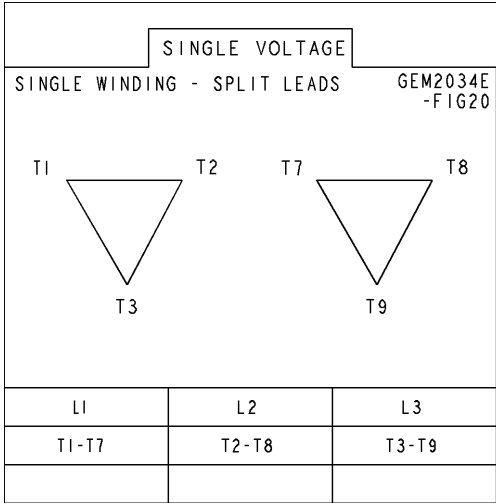
OUTLINE
 447/449 TS TEFC
 1260 CU IN. CONDUIT BOX, GROUND PAD

239C6800ARK 000

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG20



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4354AA1	115E4354LL1
Bearing	235A2516AC02	235A2516AC02
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	149C4261AK2
Fan Cover	128D6841AC1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

