



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:	5KS449SAA1008D3
Catalog Number:	M9398
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		

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Marks:

MODEL NUMBER:	5KS449SAA1008D3	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 CCW FACING ODE LEAD/PH SEQ 3-2-1/1-2-3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS449SAA1008D3 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:

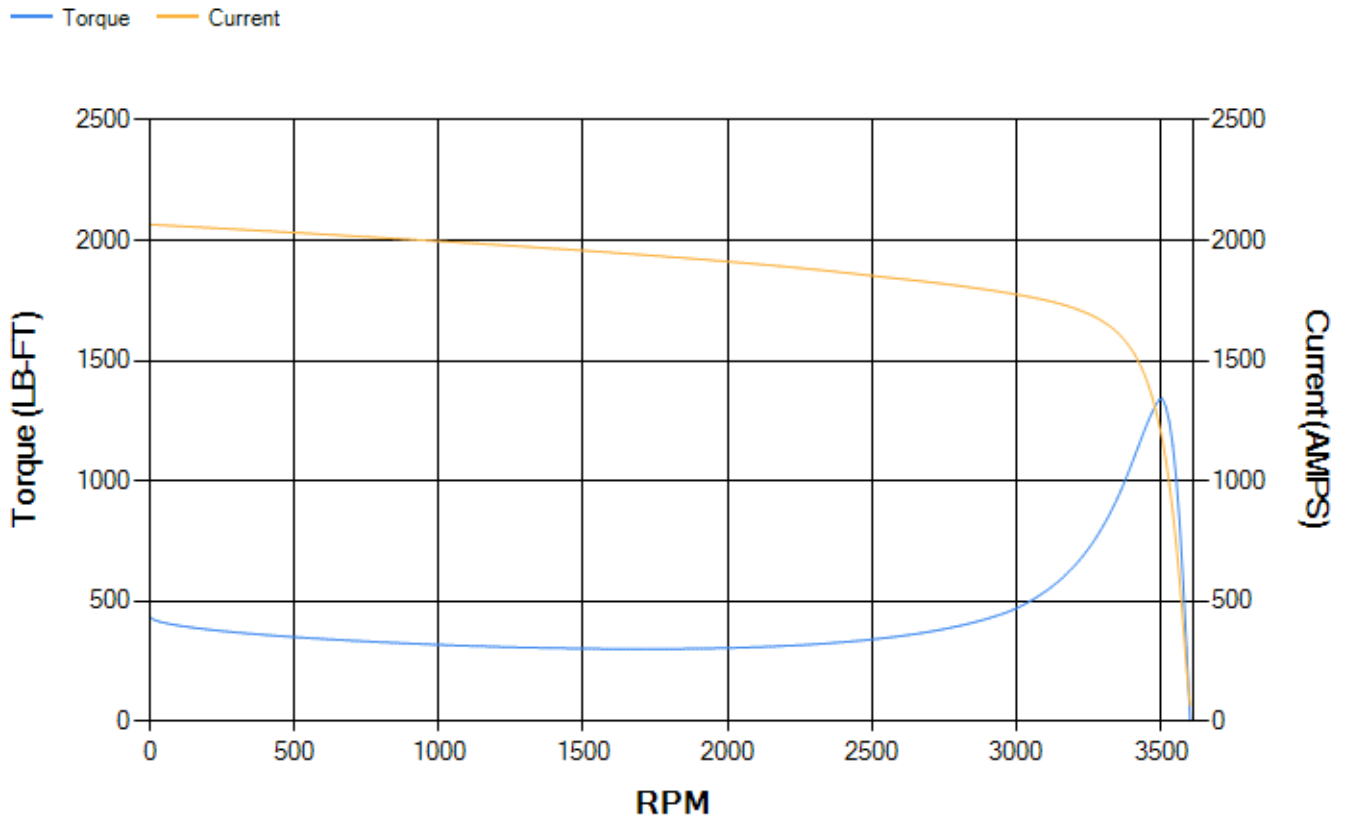
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.53	95.74	96.22	96.31	96.17	94.51	0.00
% PF	92.21	92.36	92.34	91.38	87.64	72.89	5.24
AMPS	398.46	365.17	315.98	239.29	166.56	101.89	65.26

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

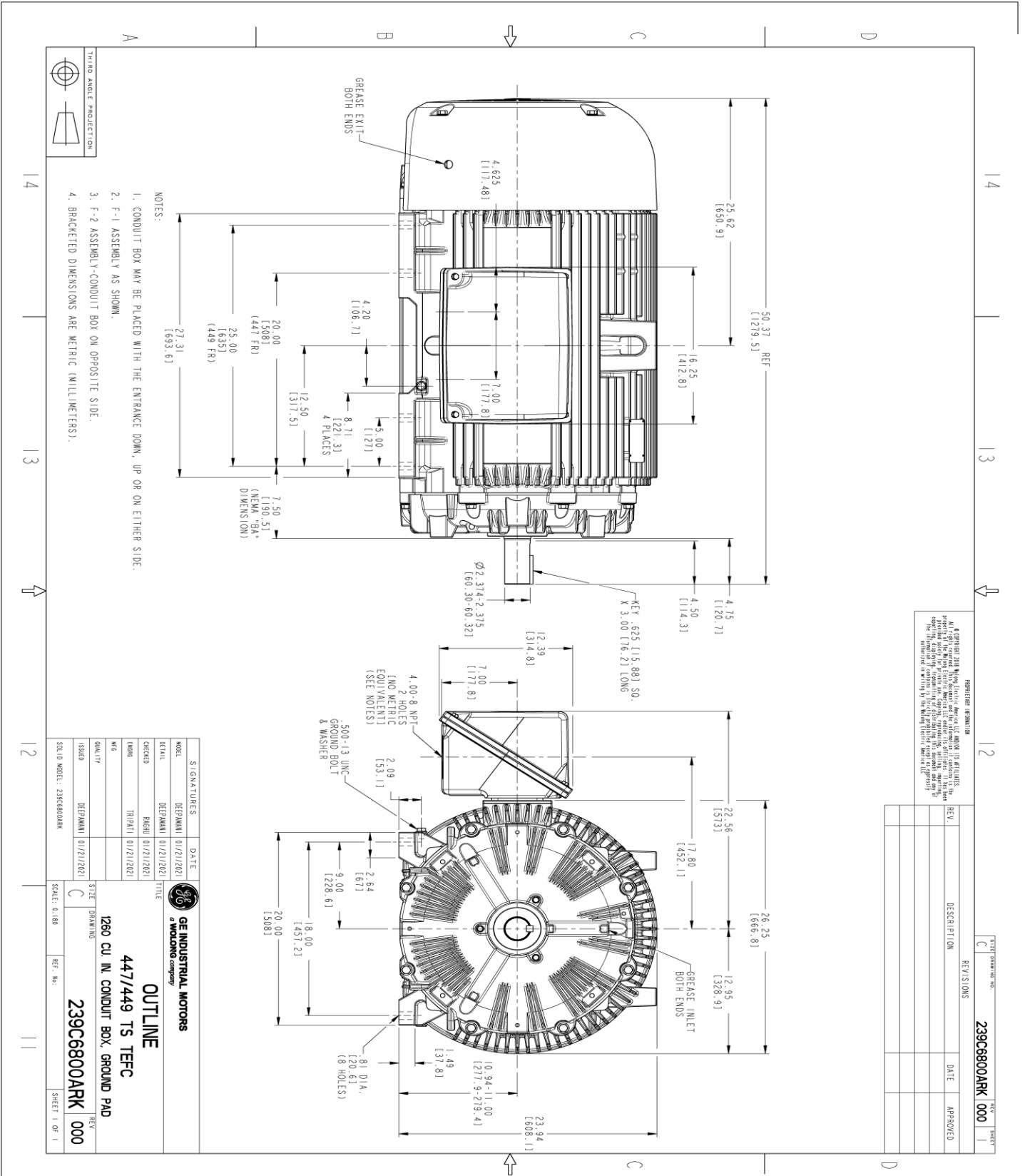
This motor is capable of two cold or one hot start with a maximum connected load inertia of 650 Lb-Ft Sq (27.36 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 30 seconds. Safe stall time at 100%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

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REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES	DATE	TITLE
MODEL: 5KS449SAA1008D3	DATE: 01/21/2021	TITLE: OUTLINE
DESIGNED BY: DEEPMANI	DATE: 01/21/2021	
CHECKED BY: RAGHU	DATE: 01/21/2021	
DATE: 01/21/2021		
ISSUED BY: DEEPMANI	DATE: 01/21/2021	
SCALE: 0.180		
REF. NO.		
SHEET 1 OF 1		

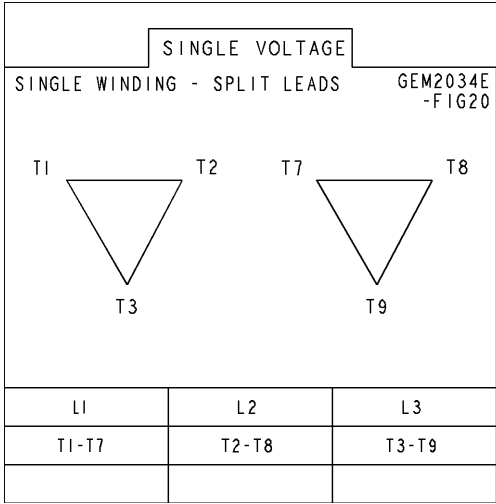
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447/449 TS TEFC
 1260 CU IN. CONDUIT BOX, GROUND PAD

239C6800ARK 000

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	149C4287AA2
Fan Cover	128D6841AC1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

