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

Product Technical Information

April 30, 2021

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

Model Number:	**5KS449SAA382C**
Catalog Number:	**M9198**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG8
Outline Drawing:	239C6800ARA

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:	**5KS449SAA382C**	**Estimated Weight:**	2990 Lbs
Outline Drawing:	239C6800ARA	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG8	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	49BD3187A	**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:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	54.3
Amps - FL:	229.0	**Power Factor:**	85.5
Service Factor:	1.25	**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
SF AMPS 284.9
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS449SAA382C 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 280C AT 1.25SF 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: 4950 LBF AT 4.25"
FROM SHAFT SHOULDER

Additional Information:

6P - T EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
.002" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
GROUND PAD
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 49BD3187A**

Marks:

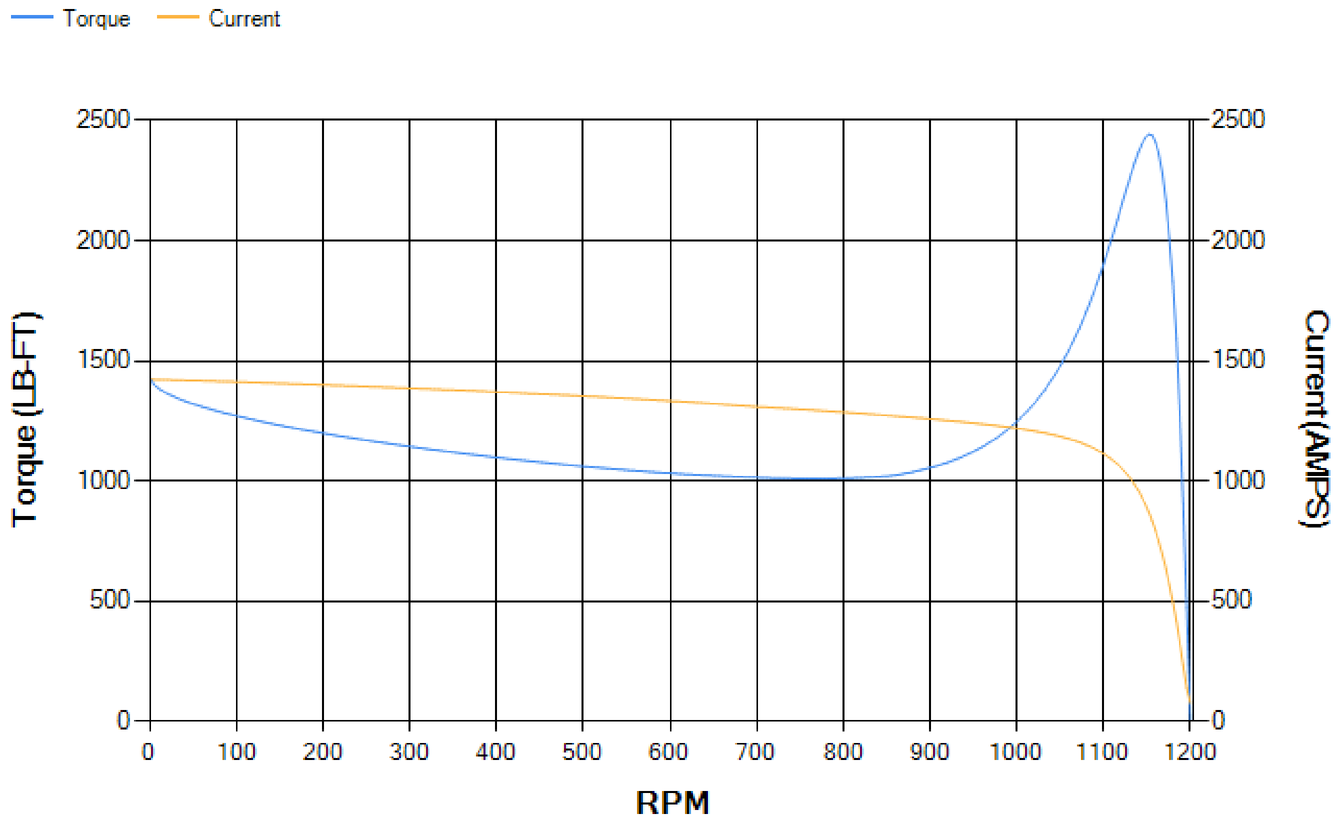
LOAD %	**125.0**	**115.0**	**100.0**	**75.0**	**50.0**	**25.0**	**0.0**
% EFF	95.26	95.49	95.99	96.08	95.91	94.08	0.00
% PF	86.22	86.04	85.32	82.25	74.26	52.92	3.27
AMPS	284.9	262.02	228.6	177.65	131.41	93.99	75.71

TORQ(FL)#FT	881.28	**TORQ(LR)%FL**	162.78	**TORQ(BD)%FL**	277.05
AMPS(LR)	1422.95	**PF AT START**	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 14093 Lb-Ft Sq (593.32 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 60 seconds. Safe stall time at 100% voltage is 127 seconds cold, 72 seconds hot. Rotor inertia is 182.7 Lb-Ft Sq (7.69 Kg-meter Sq).

Open Circuit A-C:	1.107	**Short Circuit D-C:**	0.034
Short Circuit A-C:	0.054	**X/R Ratio:**	12.713
Stator Slots:	72	**Rotor Slots:**	58

Speed Torque Current Curve (First Connection, First Speed)



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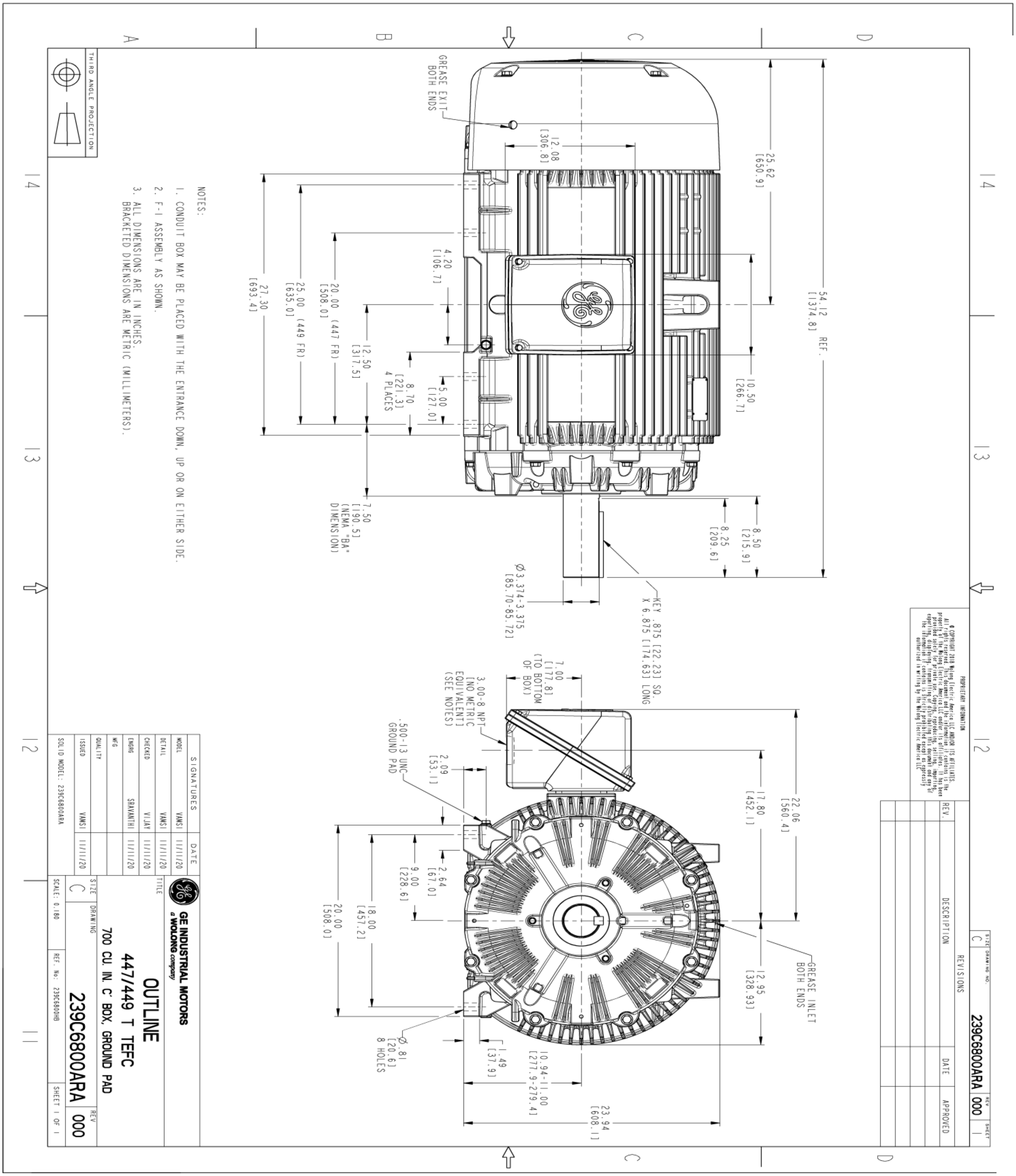

NOTES:

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-1 ASSEMBLY AS SHOWN.
3. ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

REV.	DESCRIPTION	DATE	APPROVED

REVISIONS

SIZE C DRAWING NO. 239C6800ARA REV 000 SHEET 1

SIGNATURES		DATE
MODEL	VAMSI	11/11/20
DETAIL	VAMSI	11/11/20
CHECKED	VIJAY	11/11/20
ENGRG	SRAVANTHI	11/11/20
MFG		
QUALITY		
ISSUED	VAMSI	11/11/20

SOLID MODEL: 239C6800ARA

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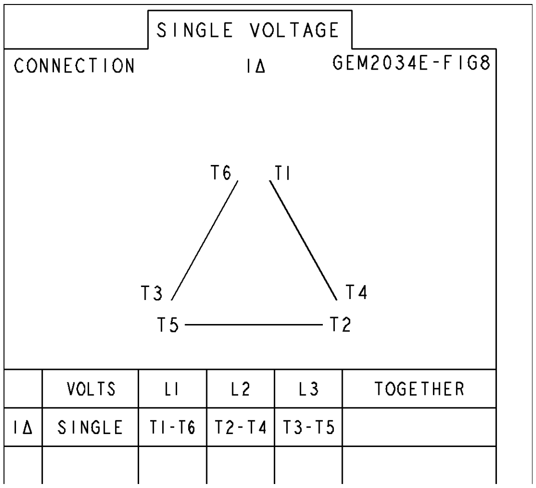
TITLE
OUTLINE
447/449 T TEFC
700 CU. IN. C' BOX, GROUND PAD

SIZE C
DRAWING 239C6800ARA
REV 000
SCALE: 0.180
REF. No: 239C6800HB
SHEET 1 OF 1

Marks:

Connection Diagram

GEM2034E-FIG8



SINGLE VOLTAGE

CONNECTION IΔ GEM2034E-FIG8

	VOLTS	L1	L2	L3	TOGETHER
IΔ	SINGLE	T1-T6	T2-T4	T3-T5	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LF1
Bearing	235A2519AA01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

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	