



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 6, 2023

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

Model Number:	5KS449XAH308
Catalog Number:	M9997
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239C6900AX

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:	5KS449XAH308	Estimated Weight:	3360 Lbs
Outline Drawing:	239C6900AX	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49FD3018A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	96.2 %
Output Power:	300HP 222KW	Guaranteed Efficiency:	95.4 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	81.2
Amps - FL:	345.0	Power Factor:	84.5
Service Factor:	1.00	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449XAH308 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 1.00SF ON SINE-WAVE PWR
 OR 200C VT OR 230C CT OR --C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 20-60 HZ, CHP -- HZ.
 IEEE STD 841-2021 FEATURES



Additional Information:

6P - T EXTN - SPLIT LEAD
C/BOX 1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
SHAFT SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
GROUND PAD
F1 MOUNTING
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
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.



Performance Characteristics

1st Winding 1st Connection

Design: 49FD3018A

Marks:

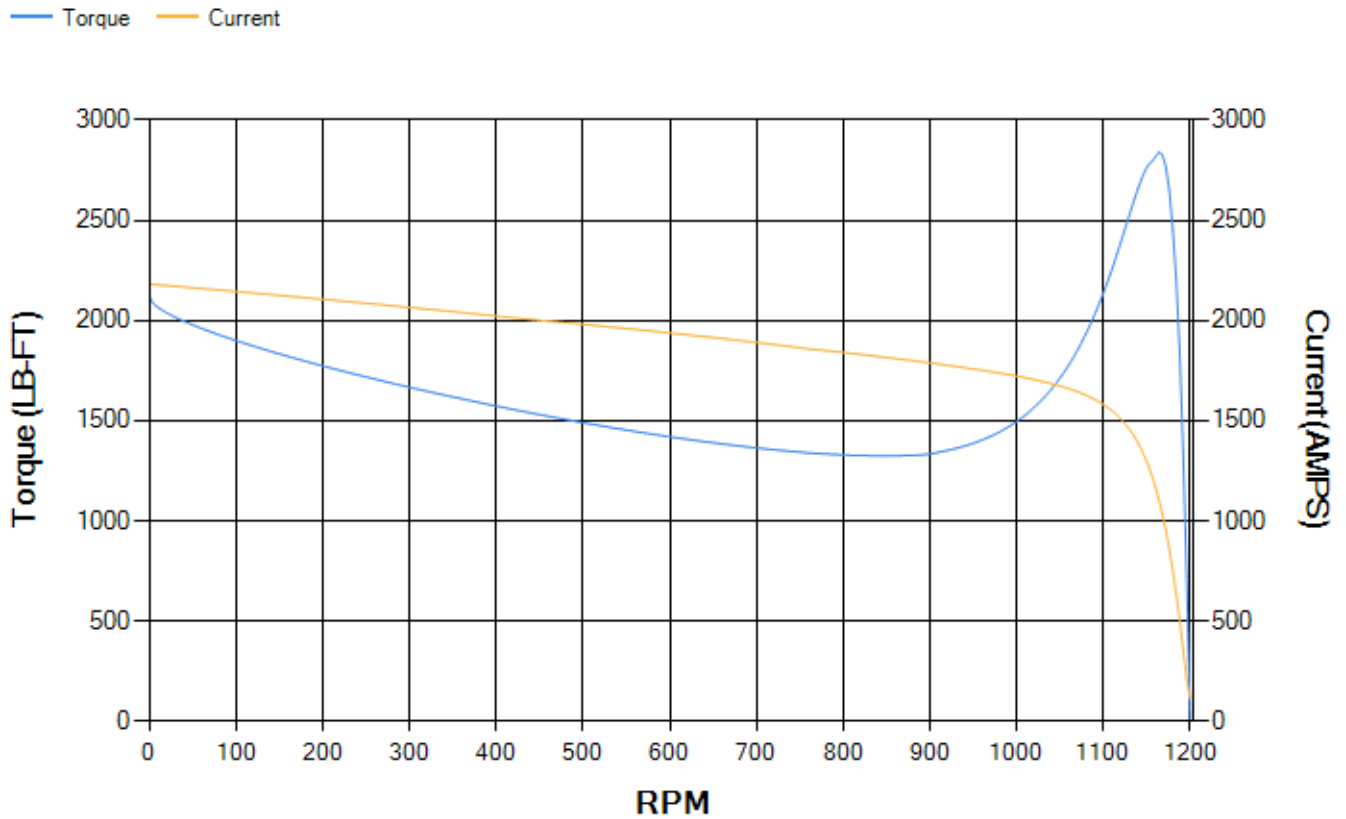
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.8	96.02	96.5	96.59	96.48	94.98	0.00
% PF	85.07	85.03	84.48	81.65	73.86	52.61	2.7
AMPS	430.64	395.5	344.45	267.01	197	140.47	113.17

TORQ(FL)#FT	1322.09	TORQ(LR)%FL	160.19	TORQ(BD)%FL	211.23
AMPS(LR)	2181.71	PF AT START	0.23		

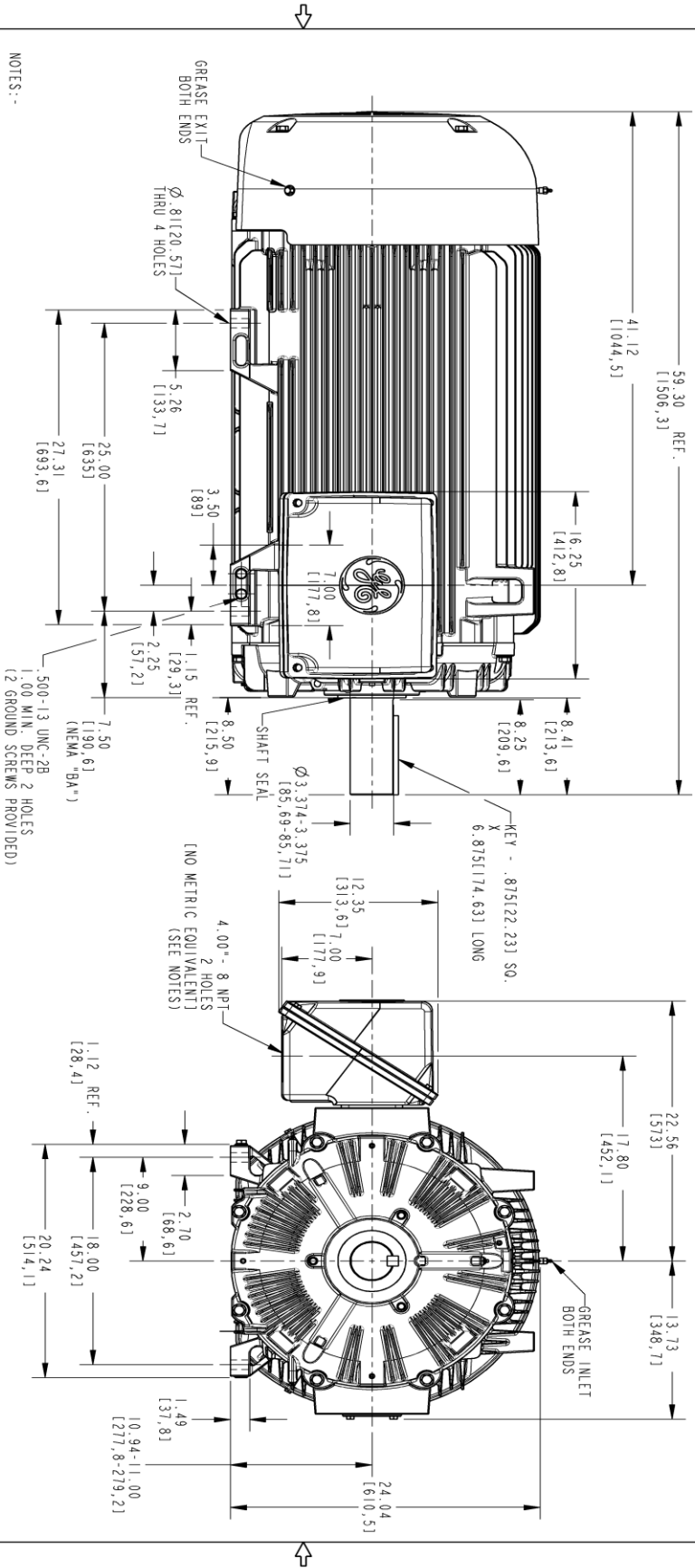
This motor is capable of two cold or one hot start with a maximum connected load inertia of 13766 Lb-Ft Sq (579.55 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 45 seconds. Safe stall time at 100% voltage is 111 seconds cold, 55 seconds hot. Rotor inertia is 233.85 Lb-Ft Sq (9.85 Kg-meter Sq).

Open Circuit A-C:	1.1	Short Circuit D-C:	0.038
Short Circuit A-C:	0.06	X/R Ratio:	14.332
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



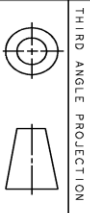
Marks:



- NOTES:-
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE UP OR TOWARD ODE SIDE.
 2. F-I ASSEMBLY AS SHOWN.
 3. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015" T.I.R FOR BALL BEARING/.002" T.I.R FOR ROLLER BEARING
 4. ALL DIMENSIONS ARE IN INCHES. BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).

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REV.	DESCRIPTION	DATE	APPROVED



SIGNATURES	DATE
MODEL DASTHAGIRI 03/13/23	
DETAIL DASTHAGIRI 03/13/23	
DESIGNER VIJAY 03/13/23	
ENGR PIVUSH 03/13/23	
QC	
QUALITY	
ISSUED DASTHAGIRI 03/13/23	
SOLID MODEL: 239C6900AX	

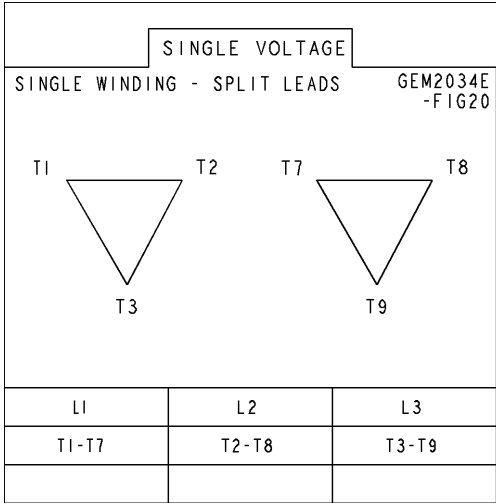
TITLE	SCALE
GE INDUSTRIAL MOTORS WOLONG company OUTLINE ULTRA 449HD T TEFC 1260 CU IN CONDUIT BOX GROUND PAD	0.120 REF. No.: 239C6900AX

SIZE	DRAWING NO.	REV	SHEET
B	239C6900AX	000	1

REV	DESCRIPTION
B	239C6900AX

Marks:

Connection Diagram
GEM2034E-FIG20



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2614AA01	235A2614AA01
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	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

