



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

September 8, 2022

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

Model Number:	5KGS324SAA208D1
Catalog Number:	M8990
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6000AE

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:	5KGS324SAA208D1	Estimated Weight:	710 Lbs
Outline Drawing:	239C6000AE	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	X\$D
Design Code:	32BD1236A	Ambient Max(°C):	40
Type:	KGS	Alt Ambient Max(°C):	65
Frame:	324T	Insulation Class:	H
Phases:	3	NEMA Design:	C
Poles:	4	Nominal Efficiency:	94.1 %
Output Power:	40HP 29.6KW	Guaranteed Efficiency:	93.6 %
RPM:	1770	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	13.5
Amps - FL:	48.8	Power Factor:	81.5
Service Factor:	1.15	Bearing - DE:	6312ZC3
Alt Service Factor:	1.00	Bearing - ODE:	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

STAMP NP249A5564P051 AS BELOW:
 MODEL:5KGS324SAA208D1 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 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 3-60 HZ, CHP 60-90 HZ.



Additional Information:

4P - T EXTN
C/BOX 346 CU IN - 3.00" NPT
SLINGER BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 32BD1236A

Marks:

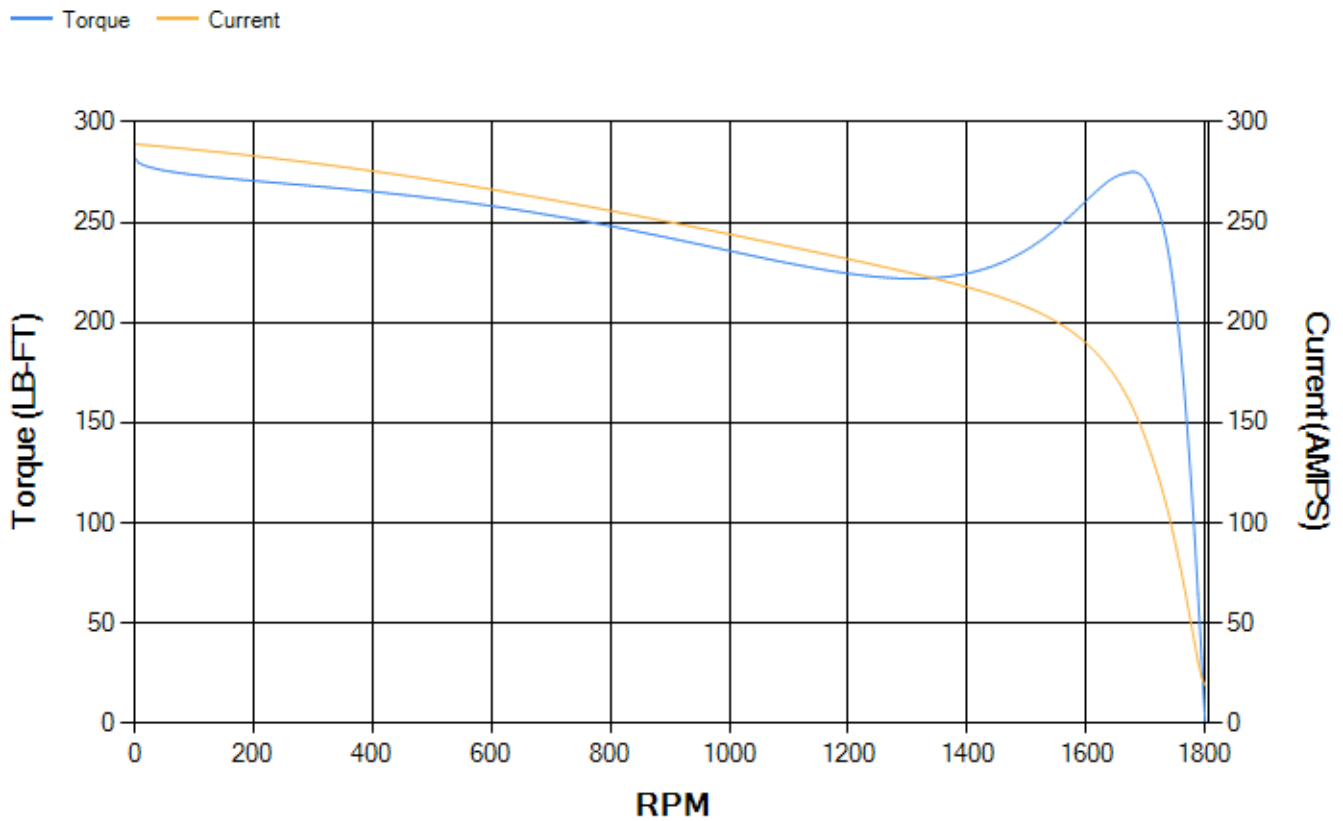
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.25	93.58	94.19	94.37	94.04	91.27	0.00
% PF	83.16	82.81	81.73	77.66	68.11	46.14	3.89
AMPS	60.35	55.55	48.52	38.31	29.22	22.22	18.84

TORQ(FL)#FT	118.76	TORQ(LR)%FL	237.71	TORQ(BD)%FL	230.49
AMPS(LR)	289.1	PF AT START	0.4		

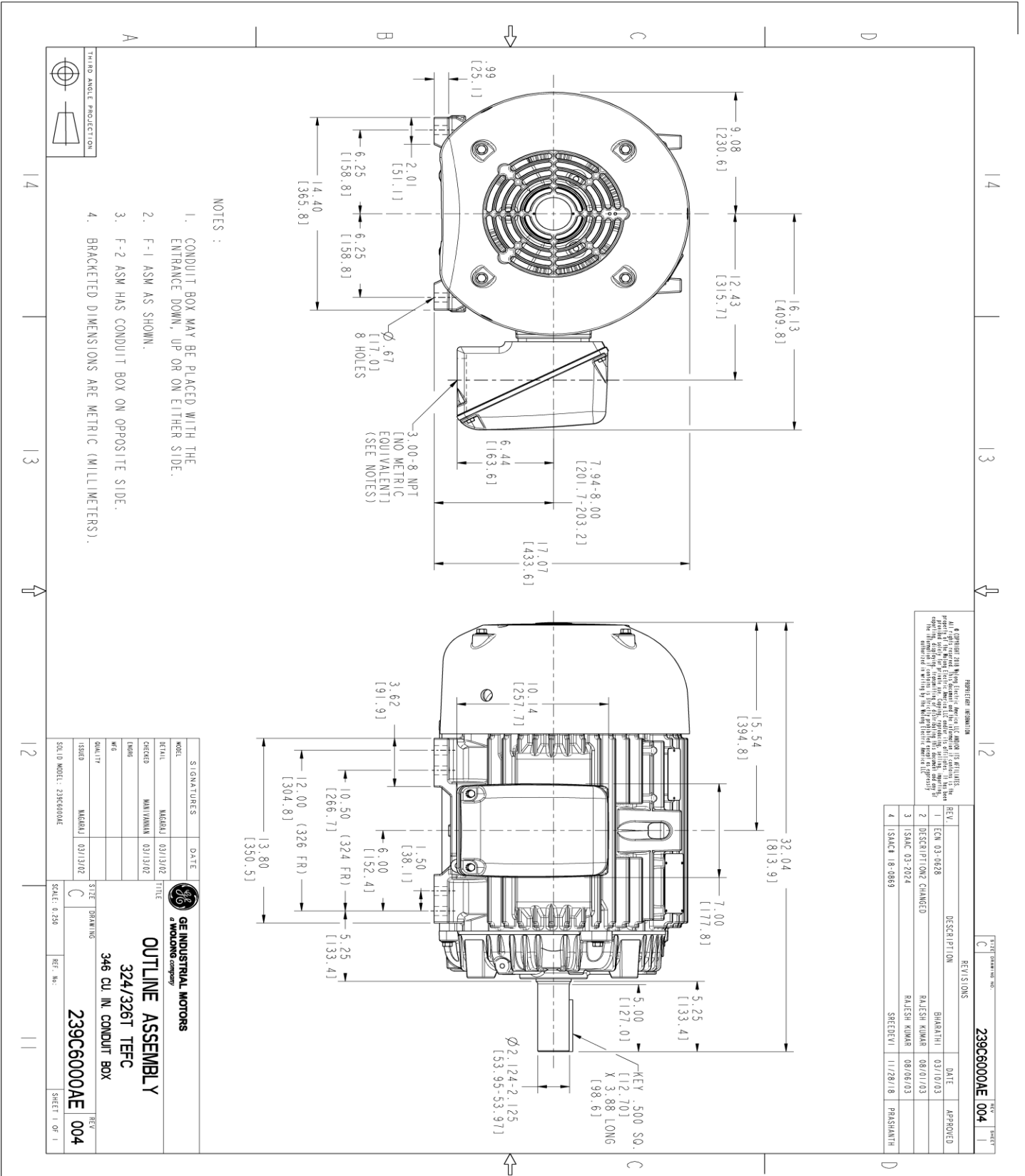
This motor is capable of two cold or one hot start with a maximum connected load inertia of 831 Lb-Ft Sq (34.99 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 23 seconds. Safe stall time at 100% voltage is 47 seconds cold, 28 seconds hot. Rotor inertia is 8.84 Lb-Ft Sq (0.37 Kg-meter Sq).

Open Circuit A-C:	0.373	Short Circuit D-C:	0.025
Short Circuit A-C:	0.019	X/R Ratio:	9.318
Stator Slots:	48	Rotor Slots:	38

Speed Torque Current Curve (First Connection, First Speed)



Marks:



REGISTRATION INFORMATION
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REV.	DESCRIPTION	DATE	APPROVED
1	ECN 03-0628	03/10/03	BHARATHI
2	DESCRIPTION CHANGED	08/01/03	RAJESH KUMAR
3	ISAC 03-2024	08/06/03	RAJESH KUMAR
4	ISAC# 18-0869	11/28/18	PRAASHANTH

SIGNATURES	DATE
MODEL: MGRANJ	03/13/02
REVISED: MANIVANNAN	03/13/02
DRAWN: WRS	
QUALITY: MGRANJ	03/13/02
ISSUED: MGRANJ	03/13/02
SCALE: 0.250	
REF. NO:	

GE INDUSTRIAL MOTORS
 a WOLONG company

OUTLINE ASSEMBLY
 324/326T TEFC
 346 CU. IN. CONDUIT BOX

239C6000AE

REV: 004
 SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	149C4399G04	149C4399G04

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6900G04
Fan Cover	128D6800AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

