



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 24, 2020

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

Model Number:	5KS254XAA100D3
Catalog Number:	M8933
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5825PBP5477

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:	5KS254XAA100D3	Estimated Weight:	315 Lbs
Outline Drawing:	4002B5825PBP5477	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD0090A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	254TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	91 %
Output Power:	15HP 11.1KW	Guaranteed Efficiency:	90.2 %
RPM:	3550	3/4 Load Efficiency:	91.8 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	2.9
Amps - FL:	17.3	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	6310ZC3
Alt Service Factor:	--	Bearing - ODE:	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 50BC03JP30 ODE BRG 45BC03JP30
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS254XAA100D3 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200C 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 230C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR 215C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT 3-60HZ, CHP 60-90HZ.



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.25 NPT
F1 CONDUIT BOX MOUNTING
"C" FACE AT DE ENDSHIELD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
ROUTINE AND 5 POINT VIBRATION TESTS INCL IN C/BOX
INPRO SEAL BOTH ENDS
GROUND SCREW ON FRAME
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
SHAFT RUNOUT LIMIT .001" TIR
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS, RABBETS,
AND PLUG THREADS
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 25BD0090A

Marks:

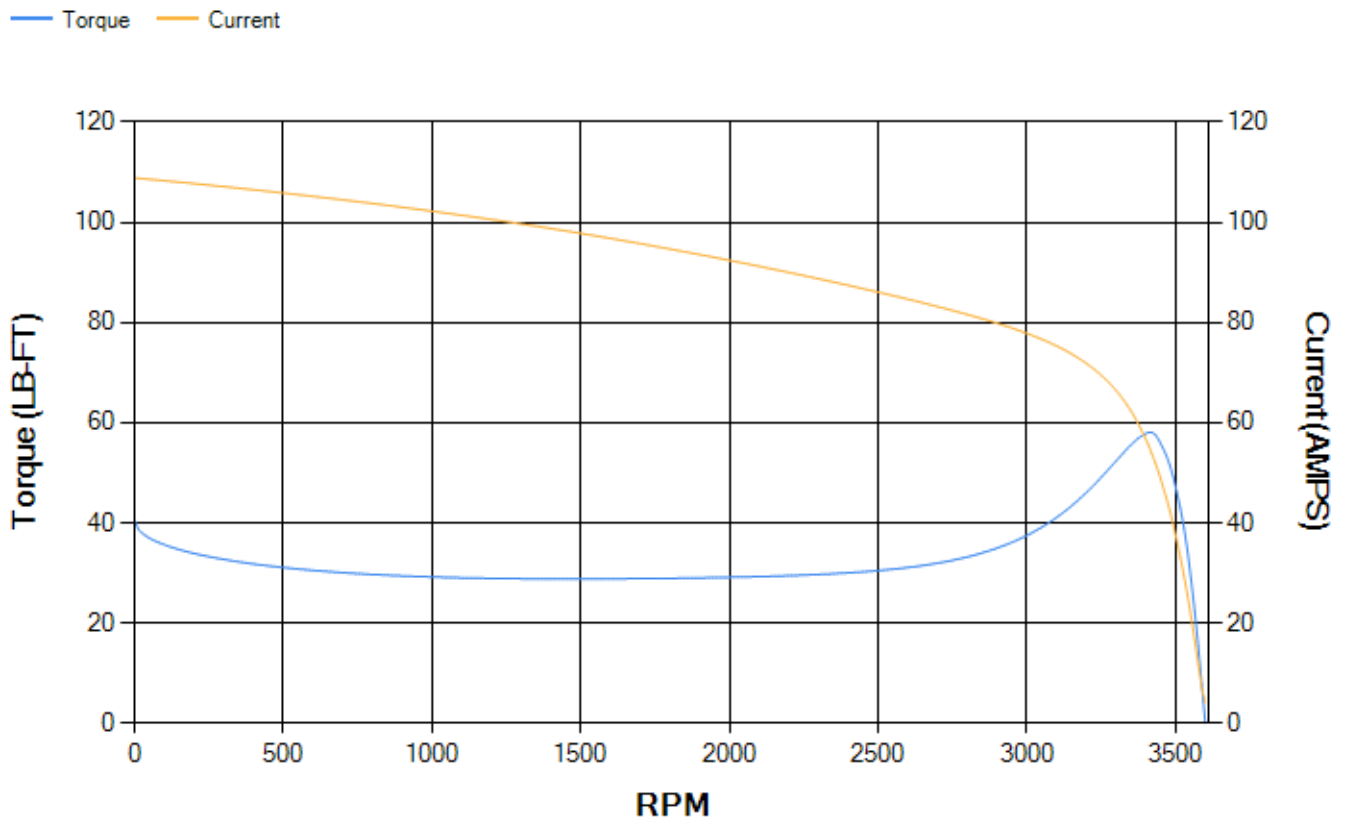
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.45	90.12	91.14	91.82	91.72	88.47	0.00
% PF	88.54	88.94	89.15	88.13	83.62	67.44	9.49
AMPS	22.16	20.14	17.28	13.01	9.15	5.88	4.05

TORQ(FL)#FT	22.19	TORQ(LR)%FL	182.46	TORQ(BD)%FL	260.69
AMPS(LR)	108.88	PF AT START	0.3		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 109 Lb-Ft Sq (4.59 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 50 seconds. Safe stall time at 100% voltage is 94 seconds cold, 60 seconds hot. Rotor inertia is 1.04 Lb-Ft Sq (0.04 Kg-meter Sq).

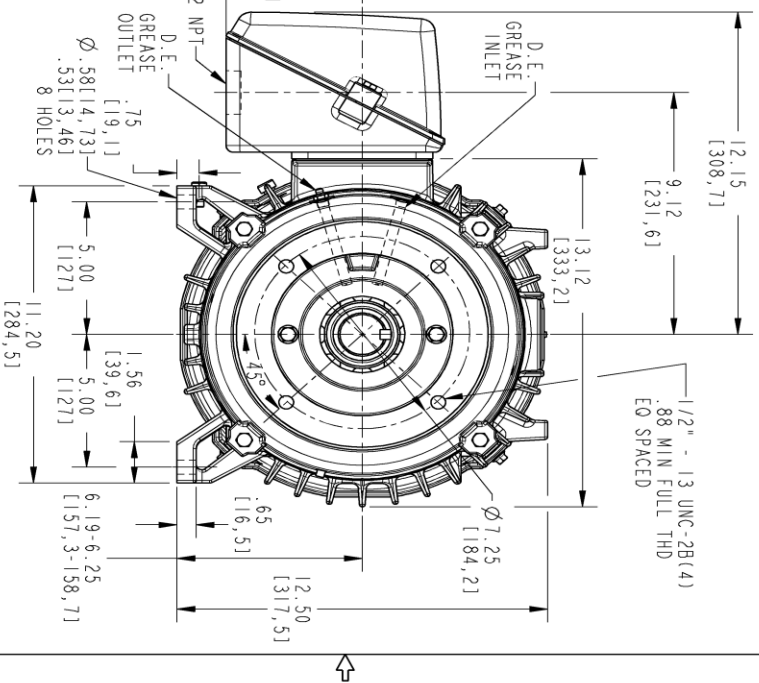
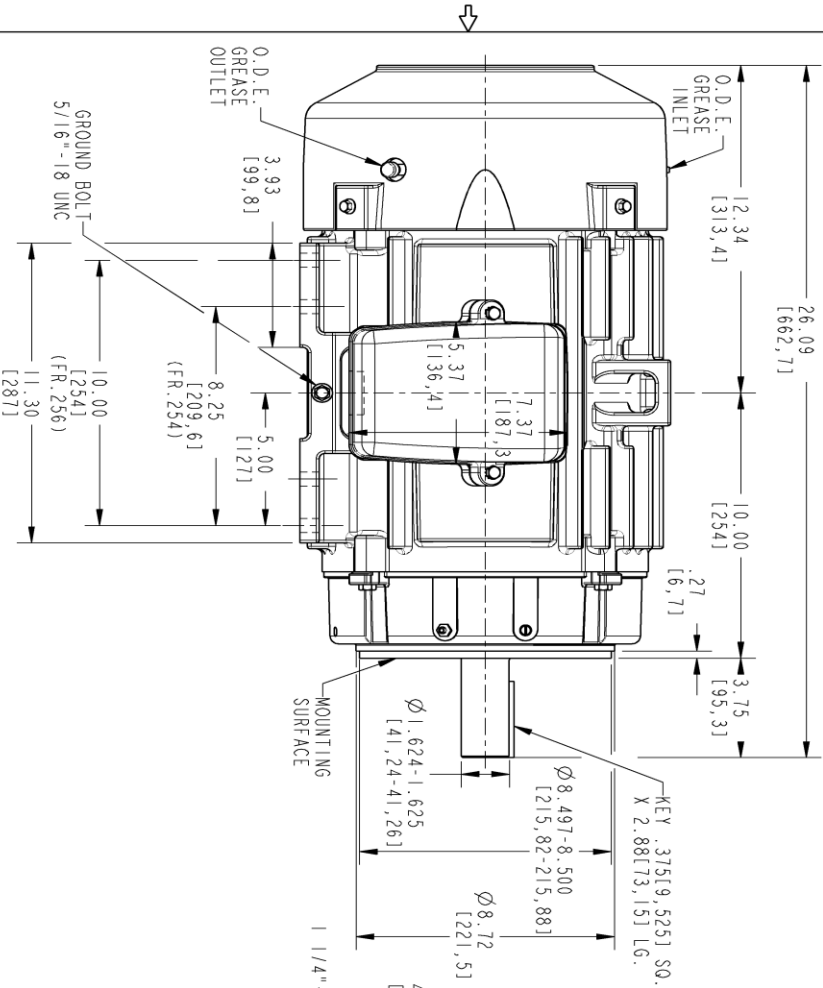
Open Circuit A-C:	0.836	Short Circuit D-C:	0.013
Short Circuit A-C:	0.031	X/R Ratio:	4.8
Stator Slots:	36	Rotor Slots:	26

Speed Torque Current Curve (First Connection, First Speed)



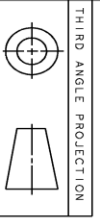
Marks:

- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN. F2 ASSEMBLY CONDUIT BOX ON OPPOSITE SIDE FROM SHOWN LOCATION.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
- NOTE 5: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE
- NOTE 6: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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REV.	DESCRIPTION	DATE	APPROVED
1	ISAAC# 18-0869	11/05/18	PRASHANTH
2	ISAAC# 18-1086	12/26/18	KARTHIK



SIGNATURES	DATE	TITLE
LAKSHIKANTH [30/03/2017]	30/03/2017	INDUCTION MOTOR OUTLINE
LAKSHIKANTH [03/03/2017]	03/03/2017	INDUCTION MOTOR OUTLINE
PYUSH [03/03/2017]	03/03/2017	INDUCTION MOTOR OUTLINE
PYUSH [03/03/2017]	03/03/2017	INDUCTION MOTOR OUTLINE
LAKSHIKANTH [03/03/2017]	03/03/2017	INDUCTION MOTOR OUTLINE

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IEEE941 SPEC. 'C' FACE AT DRIVE END (850° HUBBET)
 137 CUIN. FR. 254/256TC TFFC

SHEET DRAWING: 4002B5825PBP5477
 SCALE: 0.250 REF. No.: 4002B5825PBP5301

4002B5825PBP5477 002

REVISIONS

REV 1

SHEET 1

Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6106RF1	4004D5283SE1
Bearing	235A2508EC01	235A2507EB01
Slinger/Inproseal	4002B5914GF4	4002B5914AG4

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G02
Fan Cover	4003C5788PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

