



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 29, 2021

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

Model Number:	5KS256SAA300D1
Catalog Number:	M9956
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5825PBP5926

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:	5KS256SAA300D1	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825PBP5926	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG1	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	25BD3100A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	256TC	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	91.0 %
Output Power:	10HP 7.4KW	Guaranteed Efficiency:	90.2 %
RPM:	1175	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	H
Hertz:	60	Max KVAR:	4.2
Amps - FL:	13.0	Power Factor:	79.0
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:5KS256SAA300D1 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR

SURF TEMP 200C AT 1.15SF ON SINE-WAVE PWR

OR 200C VT OR 200C 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:

6P - 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
GROUND SCREW ON FRAME
ROTATE D.E. E/SHIELD 90 DEG. PER OUTLINE
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 25BD3100A

Marks:

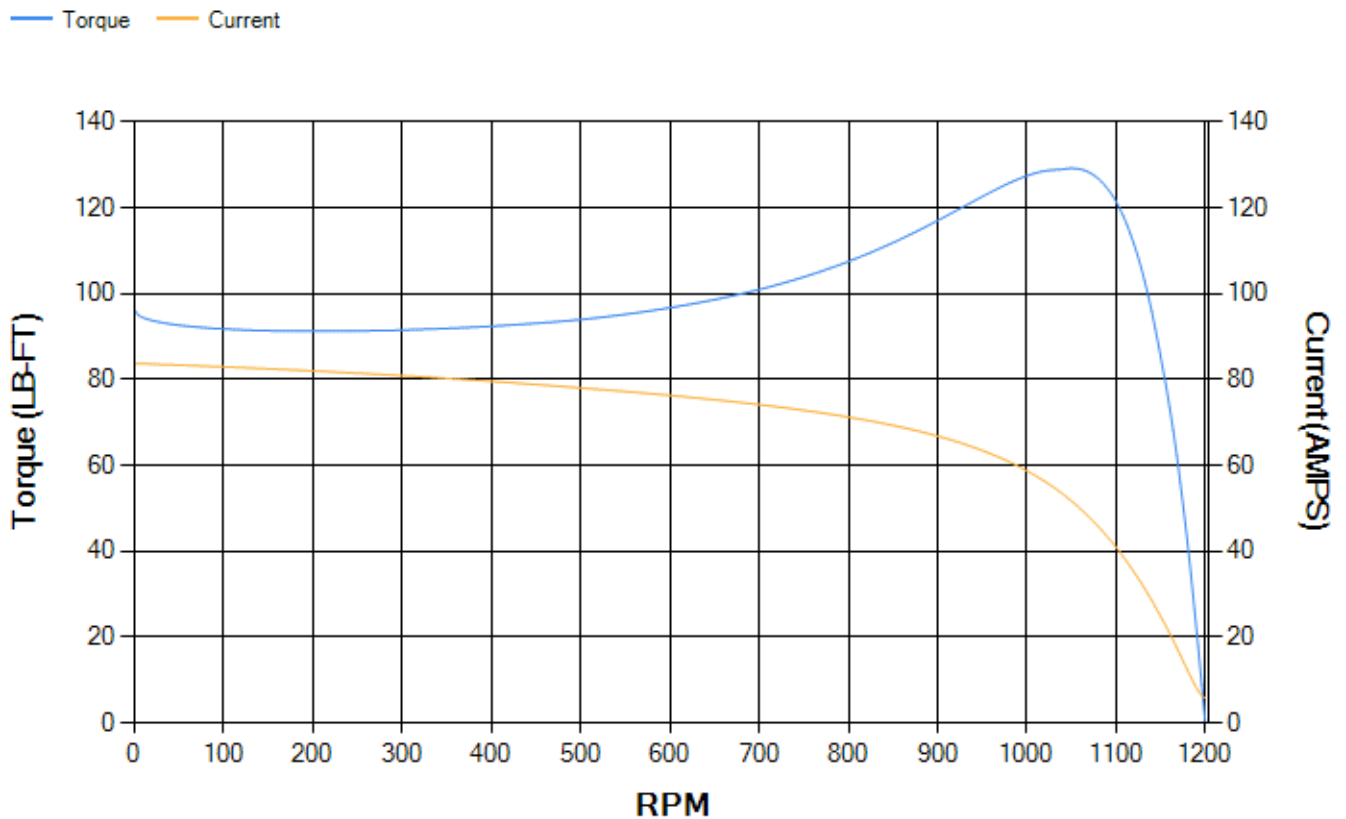
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.18	90.66	91.45	91.79	91.32	87.41	0.00
% PF	81.81	80.99	79.13	73.48	62.17	40.31	4.8
AMPS	15.86	14.66	12.94	10.41	8.24	6.64	5.89

TORQ(FL)#FT	44.74	TORQ(LR)%FL	215.09	TORQ(BD)%FL	286.64
AMPS(LR)	83.8	PF AT START	0.41		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 976 Lb-Ft Sq (41.09 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 43 seconds. Safe stall time at 100% voltage is 96 seconds cold, 66 seconds hot. Rotor inertia is 1.99 Lb-Ft Sq (0.08 Kg-meter Sq).

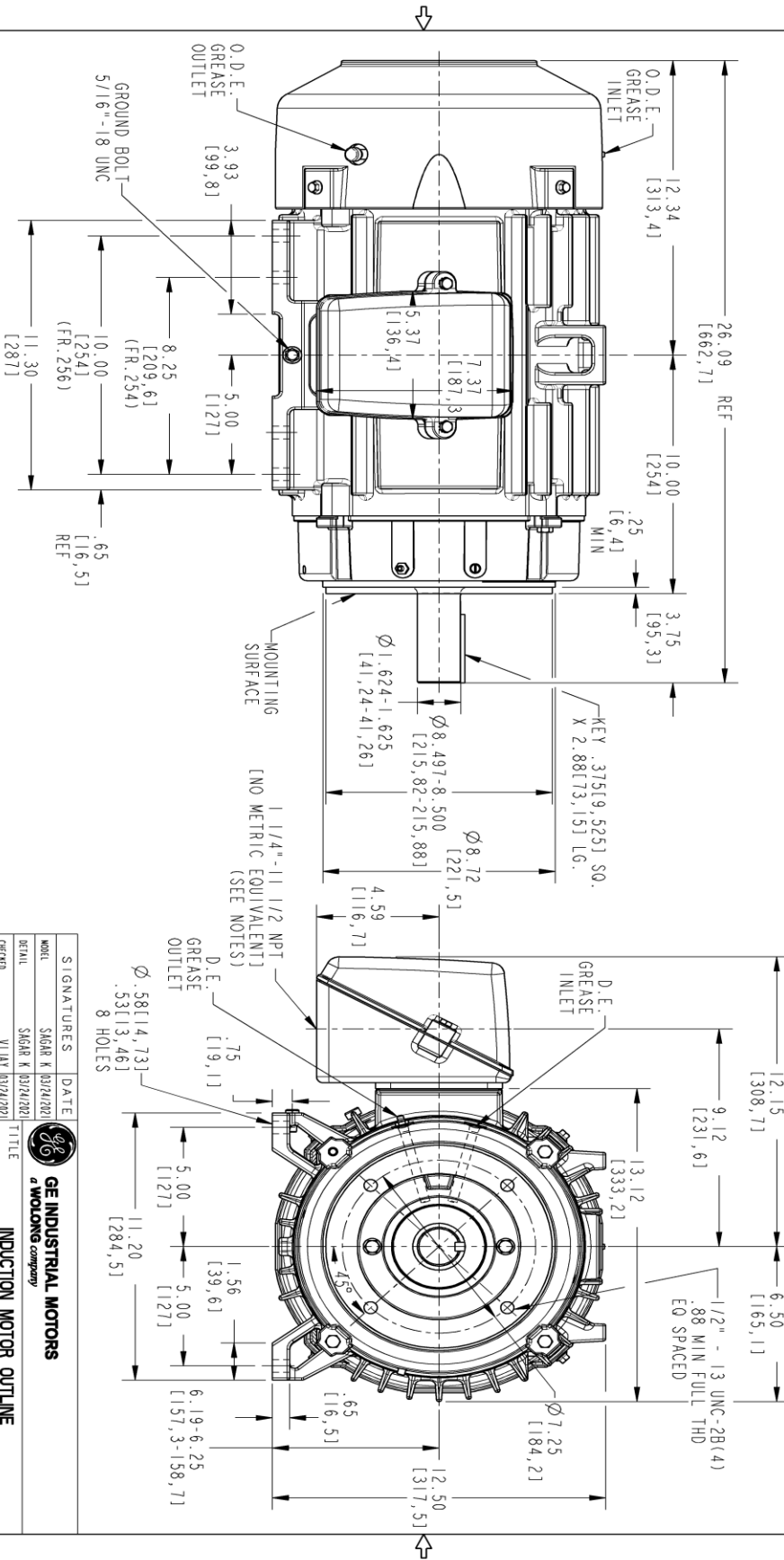
Open Circuit A-C:	0.249	Short Circuit D-C:	0.011
Short Circuit A-C:	0.015	X/R Ratio:	4.232
Stator Slots:	54	Rotor Slots:	42

Speed Torque Current Curve (First Connection, First Speed)



Marks:

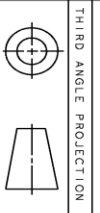
- NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
- NOTE 2: F1 ASSEMBLY AS SHOWN.
- NOTE 3: MOUNTING SURFACES WILL BE SQUARE AND CONCENTRIC WITH SHAFT WITHIN .004 T.I.R.
- NOTE 4: SHAFT RUNOUT WILL NOT EXCEED .001 T.I.R.
- NOTE 5: DE ENDSHIELD ROTATED 90° COUNTER CLOCKWISE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



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REV.	DESCRIPTION	DATE	APPROVED

SIZE	DRAWING NO.	REV	SHEET
B	4002B5825PBP5926	000	1



THIRD ANGLE PROJECTION

SIGNATURES	DATE	TITLE
SAGAR K [03/24/2021]		INDUCTION MOTOR OUTLINE
SAGAR K [03/24/2021]		FR. 254/2561TC TFC, "C" FACE AT DRIVE END (85° RABBIT)
SAGAR K [03/24/2021]		137 CU IN. C/BOX, GROUND PAD
SAGAR K [03/24/2021]		
SAGAR K [03/24/2021]		
SAGAR K [03/24/2021]		
SAGAR K [03/24/2021]		
SAGAR K [03/24/2021]		
SAGAR K [03/24/2021]		

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SCALE: 0.250 REF. No.: 4002B5825PBP5926

4002B5825PBP5926

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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	149C4399G03	149C4399G02

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6800G01
Fan Cover	4003C5788PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

