



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 12, 2021

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

Model Number:	5KS254SAA108D2
Catalog Number:	M992
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	4002B5825PAP5992

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: 5KS254SAA108D2
Outline Drawing: 4002B5825PAP5992
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 25BD0170A
Type: KS
Frame: 254T
Phases: 3
Poles: 2
Output Power: 15HP 11.1KW
RPM: 3550
Voltage: 460
Hertz: 60
Amps - FL: 17.2
Service Factor: 1.25
Alt Service Factor: --

Estimated Weight: 315 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: 841
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: B
Nominal Efficiency: 91.0 %
Guaranteed Efficiency: 90.2 %
3/4 Load Efficiency: --
KVA Code: G
Max KVAR: 2.7
Power Factor: 89.5
Bearing - DE: 6309ZC3
Bearing - ODE: 6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
 DE BRG 45BC03JP30 ODE BRG 45BC03JP30
 SF AMPS 22.0
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS254SAA108D2 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 280C AT 1.25SF 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 3-60 HZ, CHP 60-90 HZ.



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.25 NPT
F1 CONDUIT BOX MOUNTING
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
SHAFT RUNOUT LIMIT .001" TIR
OIL RESISTANT SLEEVING ON LEADS



Performance Characteristics

1st Winding 1st Connection

Design: 25BD0170A**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.57	90.23	91.25	91.93	91.84	88.64	0.00
% PF	88.97	89.42	89.71	88.92	84.9	69.7	10.02
AMPS	22.02	20.01	17.15	12.88	9	5.68	3.77

TORQ(FL)#FT 22.19
AMPS(LR) 109.7

TORQ(LR)%FL 188.5
PF AT START 0.3

TORQ(BD)%FL 260.41

This motor is capable of two cold or one hot start with a maximum connected load inertia of 113 Lb-Ft Sq (4.76 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 95 seconds cold, 62 seconds hot. Rotor inertia is 1.1 Lb-Ft Sq (0.05 Kg-meter Sq).

Open Circuit A-C: 0.907

Short Circuit D-C: 0.013

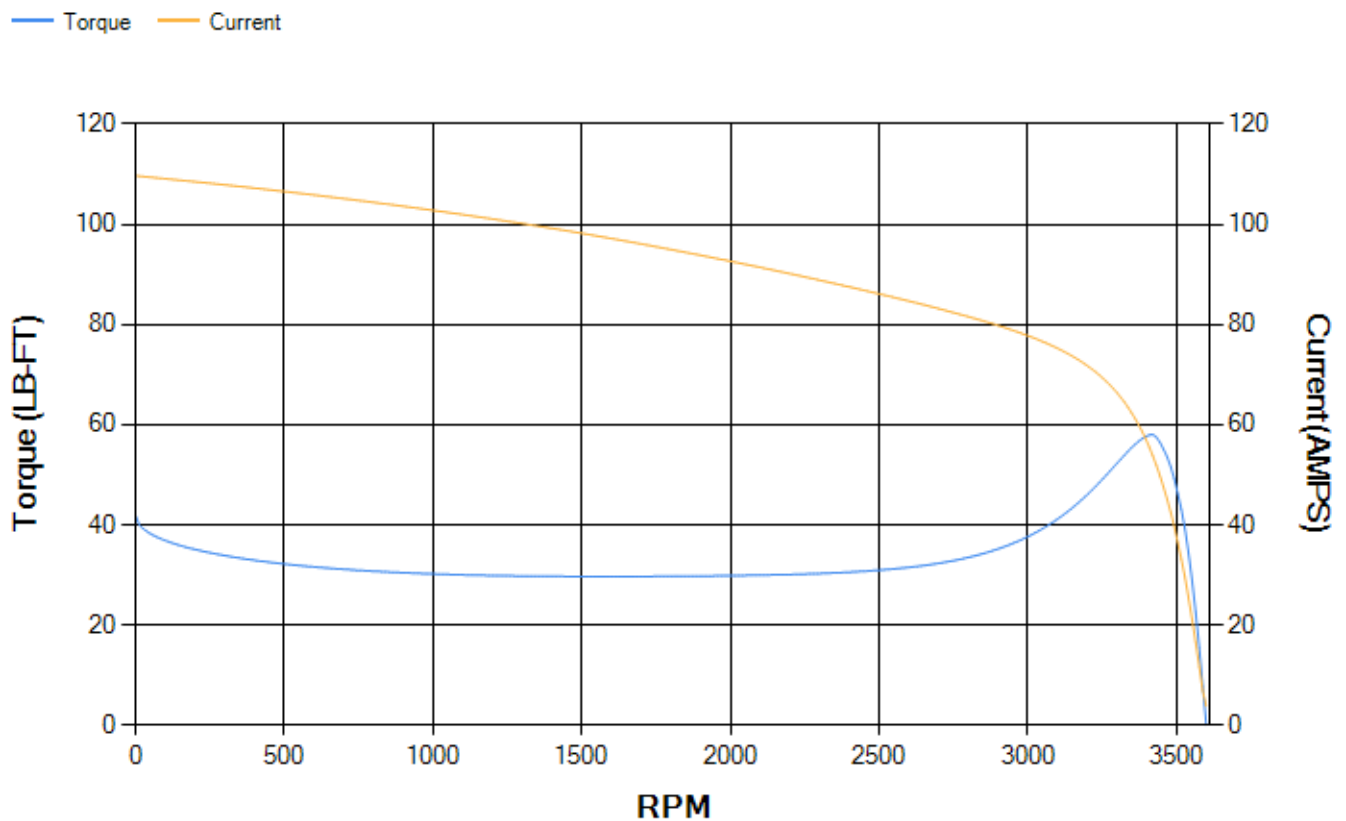
Short Circuit A-C: 0.031

X/R Ratio: 4.774

Stator Slots: 36

Rotor Slots: 26

Speed Torque Current Curve (First Connection, First Speed)

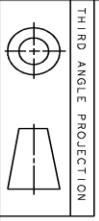
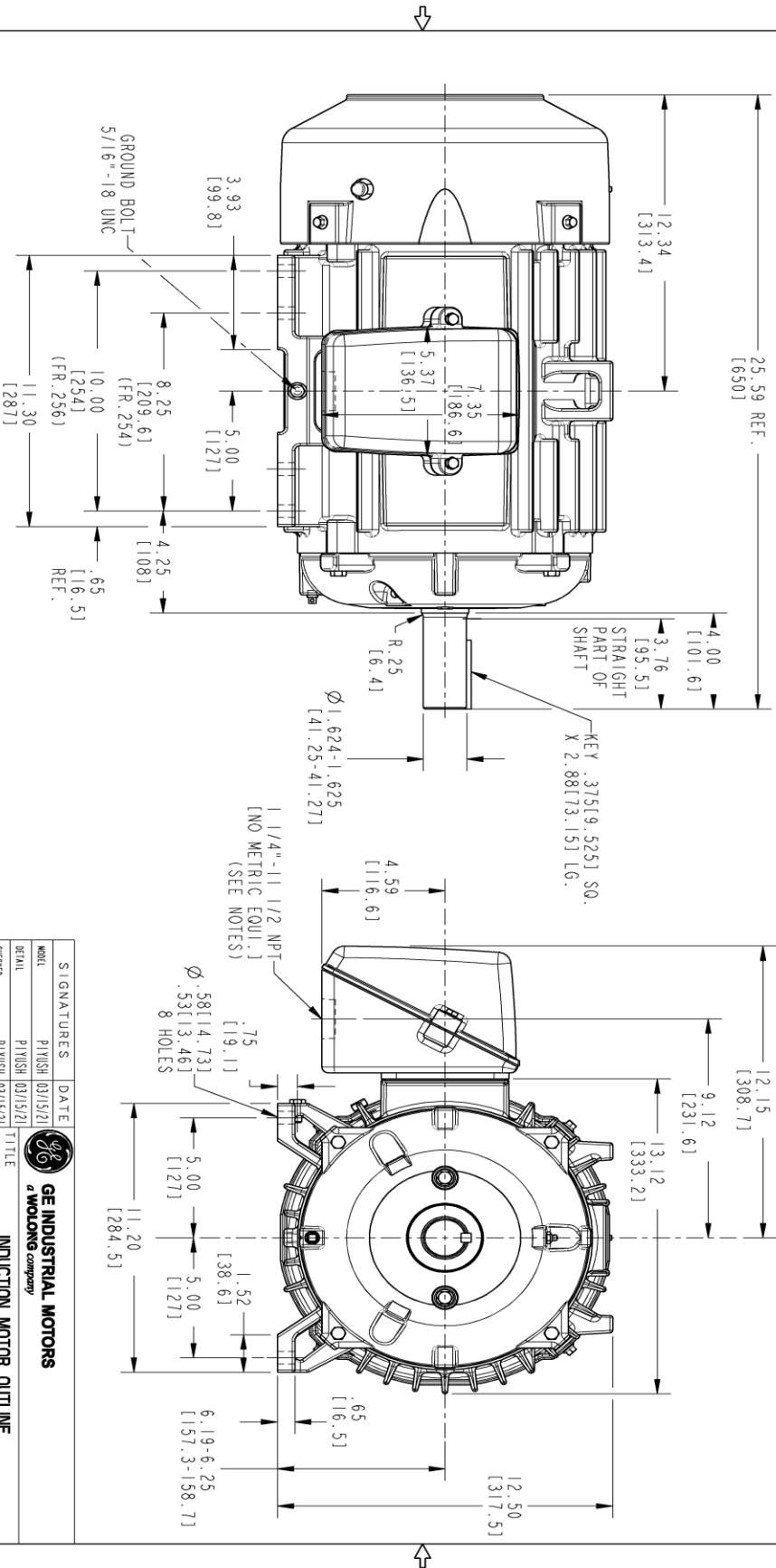


Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: F1 ASSEMBLY AS SHOWN.
NOTE 3: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)

PROPRIETARY INFORMATION
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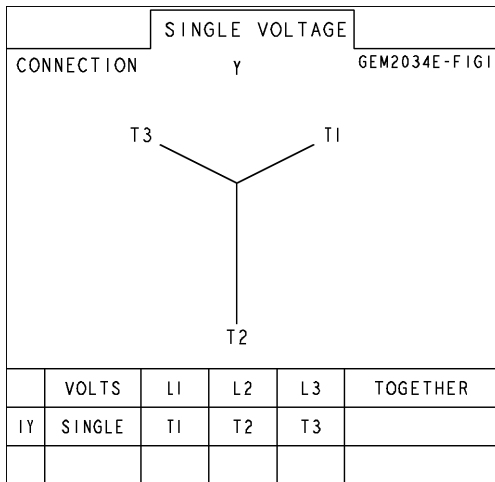
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
001	ISAC#21-0157 SAGAR K	03/24/21	VJ JAT



SIGNATURES		DATE	GE INDUSTRIAL MOTORS a Wolog company	
MODEL	PIYUSH	03/15/21	INDUCTION MOTOR OUTLINE STANDARD CONSTRUCTION, GROUND PAD FMR, FR-250T TFC	
DETAIL	PIYUSH	03/15/21		
CHECKED	PIYUSH	03/15/21		
ENG	PIYUSH	03/15/21		
WEG				
QUALITY				
ISSUED	PIYUSH	03/15/21		
SOLID MODEL	4002B5825PAP5992	SCALE: 0.250 REF. No.: 4002B5825PAP5201		

4002B5825PAP5992

001

Marks:**Connection Diagram****GEM2034E-FIG1**

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PB1	4004D5283SE1
Bearing	235A2507EB01	235A2507EB01
Slinger/Inproseal	149C4399G02	149C4399G02

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	

