



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

April 7, 2021

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

Model Number:	5KS254SAA304D2
Catalog Number:	M9726
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
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: 5KS254SAA304D2
Outline Drawing: 4002B5825PAP5992
Connection Diagram: GEM2034E-FIG7
Instruction Book: GEI-56128
Design Code: 25BD3098B
Type: KS
Frame: 254T
Phases: 3
Poles: 6
Output Power: 7.5HP 5.6KW
RPM: 1175
Voltage: 575
Hertz: 60
Amps - FL: 7.8
Service Factor: 1.15
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: H
Max KVAR: 3.0
Power Factor: 79.5
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
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS254SAA304D2 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
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: 25BD3098B**Marks:**

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.7	91.11	91.8	91.99	91.35	87.22	0.00
% PF	82.09	81.35	79.62	74.32	63.5	41.88	5.29
AMPS	9.43	8.71	7.68	6.16	4.84	3.84	3.35

TORQ(FL)#FT 33.47
AMPS(LR) 48.66

TORQ(LR)%FL 194.21
PF AT START 0.39

TORQ(BD)%FL 274.31

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1040 Lb-Ft Sq (43.78 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 68 seconds. Safe stall time at 100% voltage is 151 seconds cold, 119 seconds hot. Rotor inertia is 2.3 Lb-Ft Sq (0.1 Kg-meter Sq).

Open Circuit A-C: 0.295

Short Circuit D-C: 0.013

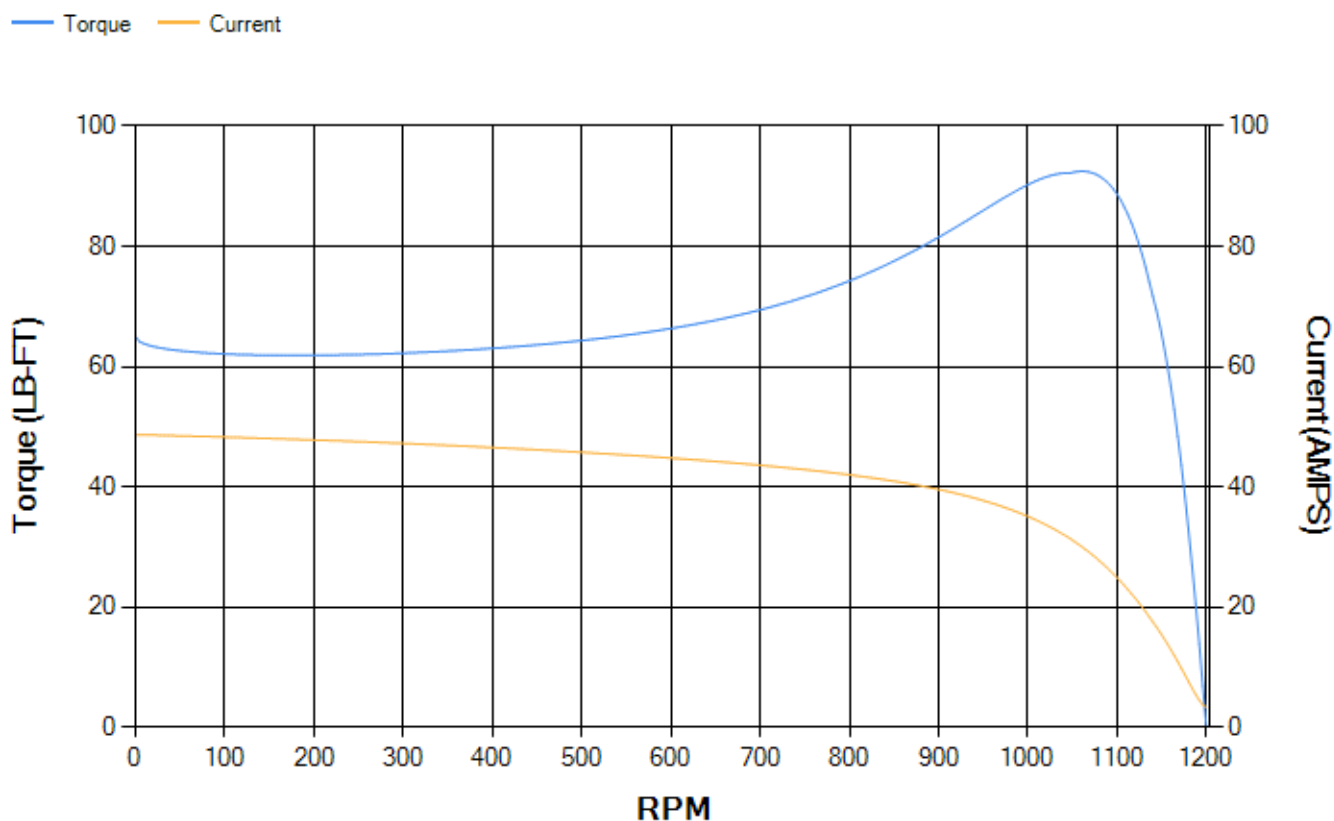
Short Circuit A-C: 0.018

X/R Ratio: 4.789

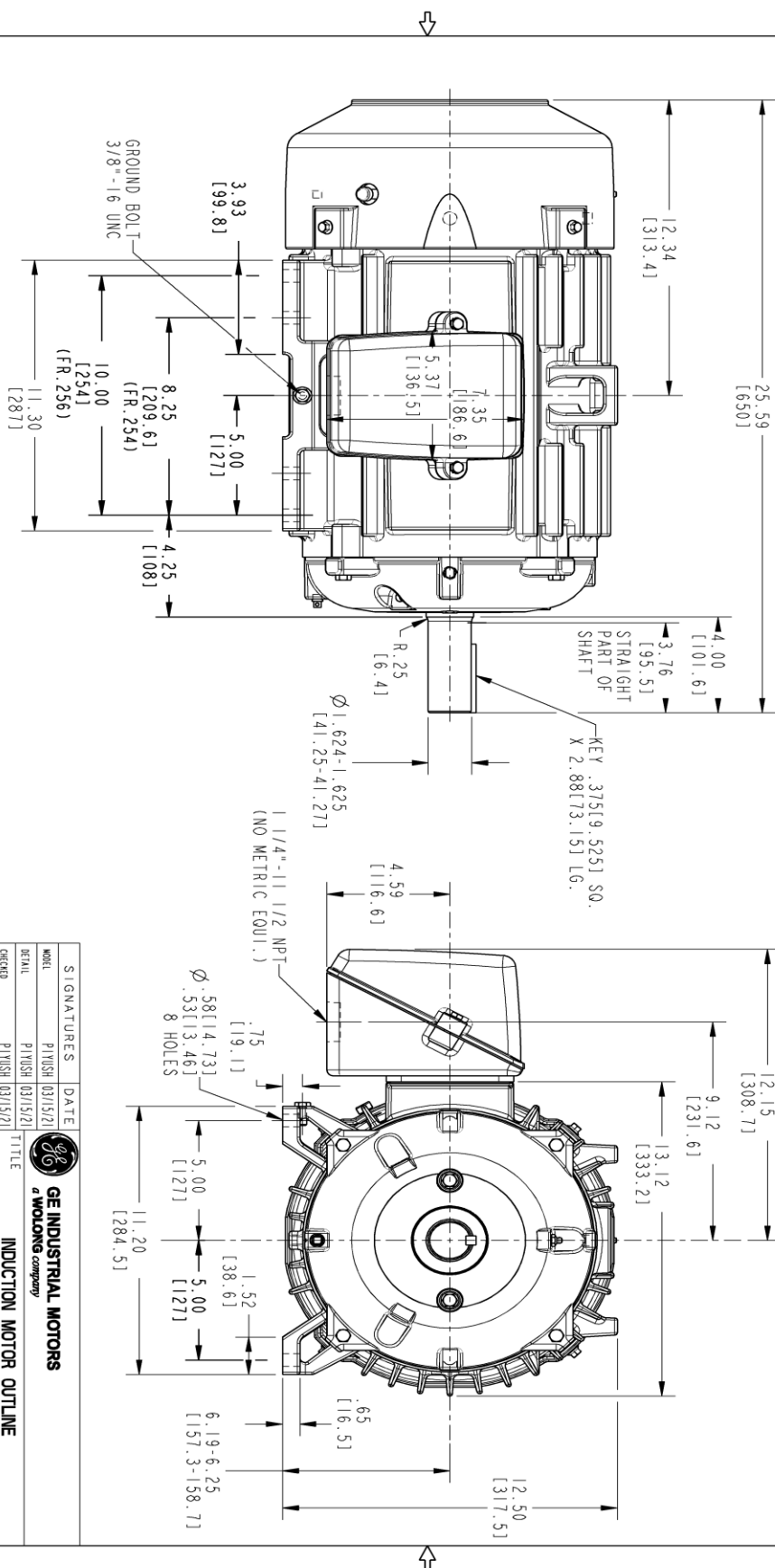
Stator Slots: 54

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: FI ASSEMBLY AS SHOWN.
NOTE 3: ALL DIMENSIONS ARE IN INCHES, BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)

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REVISIONS		
REV.	DESCRIPTION	DATE APPROVED

THIRD ANGLE PROJECTION



SIGNATURES	DATE
MODEL	P1YUSH 02/15/21
DETAIL	P1YUSH 02/15/21
CHECKED	P1YUSH 02/15/21
ENRGE	
WEG	
QUALITY	
ISSUED	P1YUSH 02/15/21
SOLD ID MODEL:	4002B5825PAP5992



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INDUCTION MOTOR OUTLINE

STANDARD CONSTRUCTION, GROUND PAD

FMR, FR250T TFC

SIZE DRAWING

B

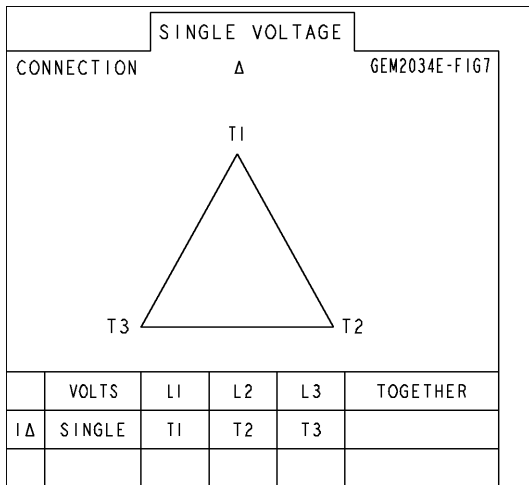
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SCALE: 0.250 REF. No: 4002B5825PAP201

REV

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SHEET 1 OF 1

Marks:**Connection Diagram**
GEM2034E-FIG7

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	159C6800G01
Fan Cover	4003C5788PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

