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:	**5KS254SAA204D3**
Catalog Number:	**M9745**
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:	**5KS254SAA204D3**	**Estimated Weight:**	315 Lbs
Outline Drawing:	4002B5825PAP5992	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	25BD1162B	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	254T	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	92.4 %
Output Power:	15HP 11.1KW	**Guaranteed Efficiency:**	91.7 %
RPM:	1775	**3/4 Load Efficiency:**	--
Voltage:	575	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	6.2
Amps - FL:	15.1	**Power Factor:**	80.5
Service Factor:	1.15	**Bearing - DE:**	6309ZC3
Alt Service Factor:	--	**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:5KS254SAA204D3 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:

4P - 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: 25BD1162B**

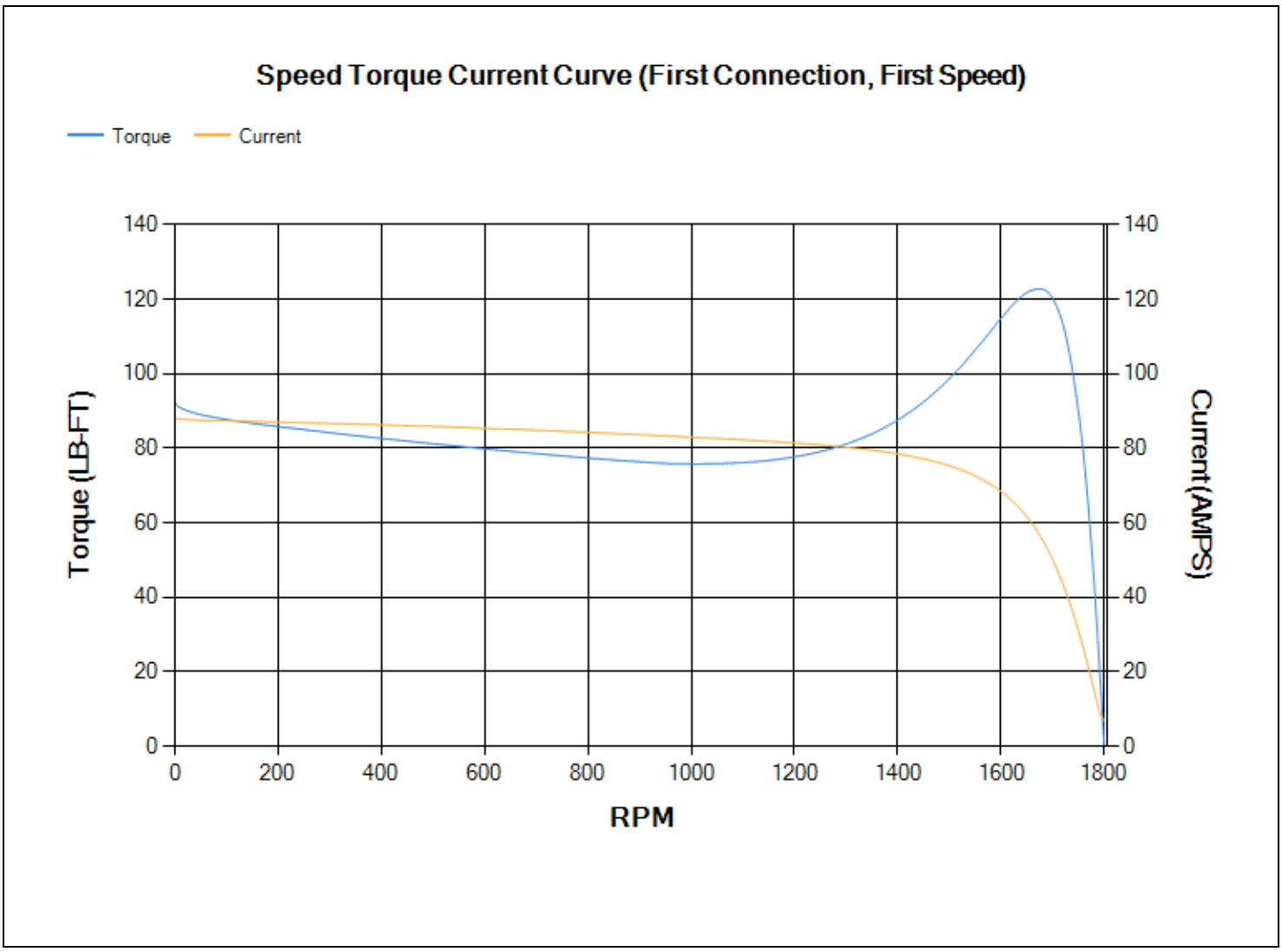
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.5	91.87	92.53	92.72	92.19	88.49	0.00
% PF	83.27	82.44	80.58	74.94	63.55	41.13	4.47
AMPS	18.43	17.05	15.06	12.12	9.59	7.72	6.88

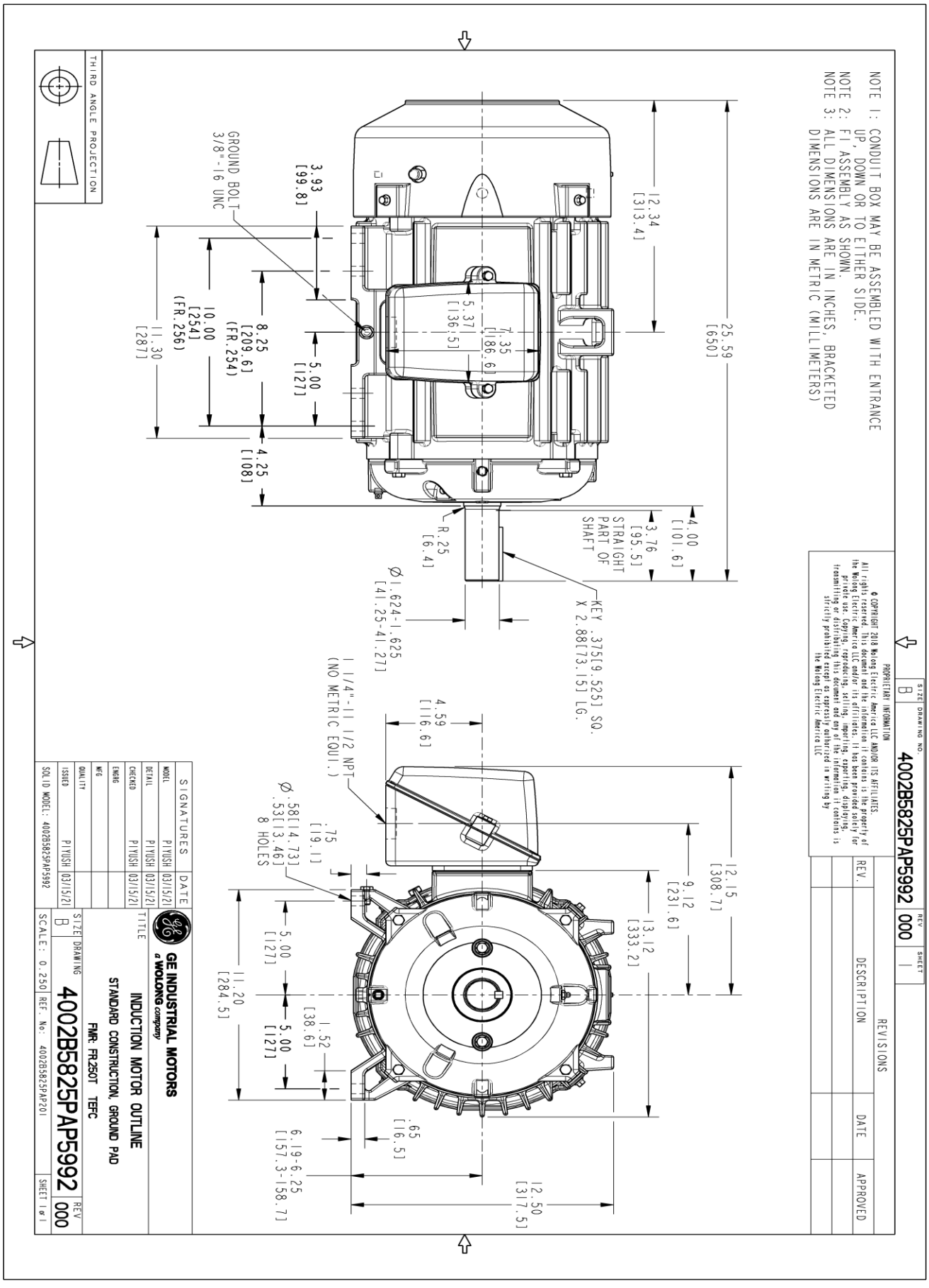
TORQ(FL)#FT	44.38	**TORQ(LR)%FL**	208.04	**TORQ(BD)%FL**	275.66
AMPS(LR)	87.99	**PF AT START**	0.46		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 468 Lb-Ft Sq (19.7 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 38 seconds. Safe stall time at 100% voltage is 86 seconds cold, 55 seconds hot. Rotor inertia is 1.97 Lb-Ft Sq (0.08 Kg-meter Sq).

Open Circuit A-C:	0.386	**Short Circuit D-C:**	0.012
Short Circuit A-C:	0.023	**X/R Ratio:**	4.473
Stator Slots:	48	**Rotor Slots:**	40



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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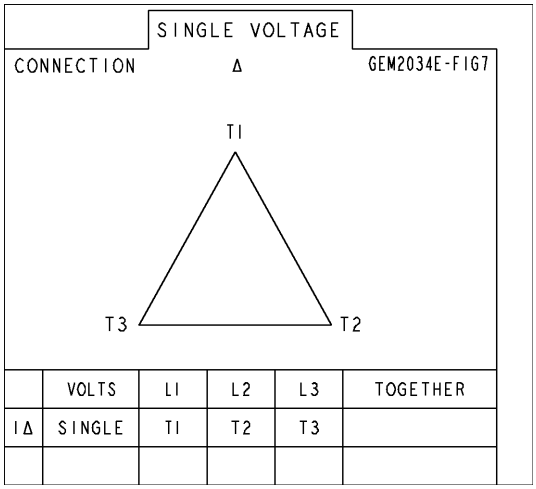
SIZE B
DRAWING NO. 4002B5825PAP5992
REV 000
SHEET 1
REVISIONS
REV. | DESCRIPTION | DATE | APPROVED
THIRD ANGLE PROJECTION
25.59 [650]
12.34 [313.4]
3.93 [99.8]
GROUND BOLT 3/8"-16 UNC
5.37 [136.5]
7.35 [186.6]
10.00 [254] (FR.256)
8.25 [209.6] (FR.254)
5.00 [127]
11.30 [287]
4.25 [108]
4.00 [101.6]
3.76 [95.5]
STRAIGHT PART OF SHAFT
R.25 [6.4]
KEY .375[9.525] SQ. X 2.88[73.15] LG.
Ø1.624-1.625 [41.25-41.27]
1 1/4"-11 1/2 NPT (NO METRIC EQUIV.)
4.59 [116.6]
12.15 [308.7]
9.12 [231.6]
13.12 [333.2]
.75 [19.1]
Ø.58[14.73] .53[13.46] 8 HOLES
5.00 [127]
11.20 [284.5]
1.52 [38.6]
5.00 [127]
.65 [16.5]
6.19-6.25 [157.3-158.7]
12.50 [317.5]
SIGNATURES
MODEL PIYUSH 03/15/21
DETAIL PIYUSH 03/15/21
CHECKED PIYUSH 03/15/21
ENGRG
MFG
QUALITY
ISSUED PIYUSH 03/15/21
SOLID MODEL: 4002B5825PAP5992
GE INDUSTRIAL MOTORS a WOLONG company
TITLE
INDUCTION MOTOR OUTLINE
STANDARD CONSTRUCTION, GROUND PAD
FMR: FR250T TEFC
SIZE B
DRAWING 4002B5825PAP5992
REV 000
SCALE: 0.250
REF. No: 4002B5825PAP201
SHEET 1 of 1

Marks:

Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	

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	159C6700G02
Fan Cover	4003C5788PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	