



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

September 8, 2022

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

Model Number:	5KS254BAA205A
Catalog Number:	M1151
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5825GAP5201

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: 5KS254BAA205A
Outline Drawing: 4002B5825GAP5201
Connection Diagram: GEM2034E-FIG9
Instruction Book: GEI-56128
Design Code: 25BD1381A
Type: KS
Frame: 254T
Phases: 3
Poles: 4
Output Power: 15HP 11.1KW
RPM: 1775
Voltage: 230/460
Hertz: 60
Amps - FL: 37.2/18.6
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 315 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: GP
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: F
NEMA Design: B
Nominal Efficiency: 92.4 %
Guaranteed Efficiency: 91.0 %
3/4 Load Efficiency: --
KVA Code: G
Max KVAR: 5.8
Power Factor: 81.5
Bearing - DE: 6309-2ZC3
Bearing - ODE: 6309-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-39.5A



Additional Information:

4P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 137 CU IN-1.25 NPT
F1 CONDUIT BOX MOUNTING
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ
SUITABLE FOR 208V -39.5 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 25BD1381A

Marks:

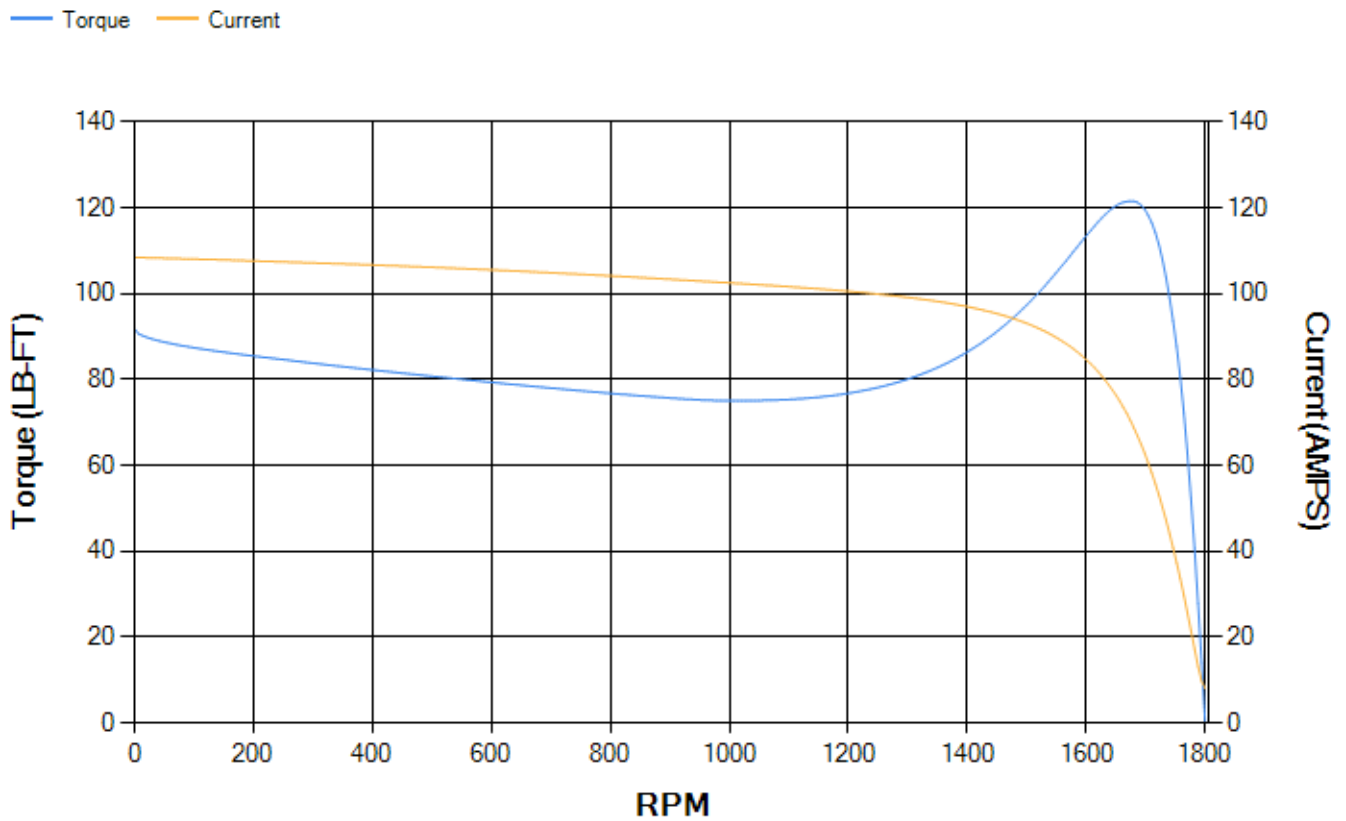
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.7	92.08	92.74	92.96	92.49	89	0.00
% PF	84.04	83.3	81.61	76.36	65.4	42.9	4.51
AMPS	22.77	21.05	18.55	14.83	11.6	9.19	8.1

TORQ(FL)#FT	44.37	TORQ(LR)%FL	206.96	TORQ(BD)%FL	273.1
AMPS(LR)	108.48	PF AT START	0.45		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 496 Lb-Ft Sq (20.88 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 41 seconds. Safe stall time at 100% voltage is 91 seconds cold, 60 seconds hot. Rotor inertia is 2.08 Lb-Ft Sq (0.09 Kg-meter Sq).

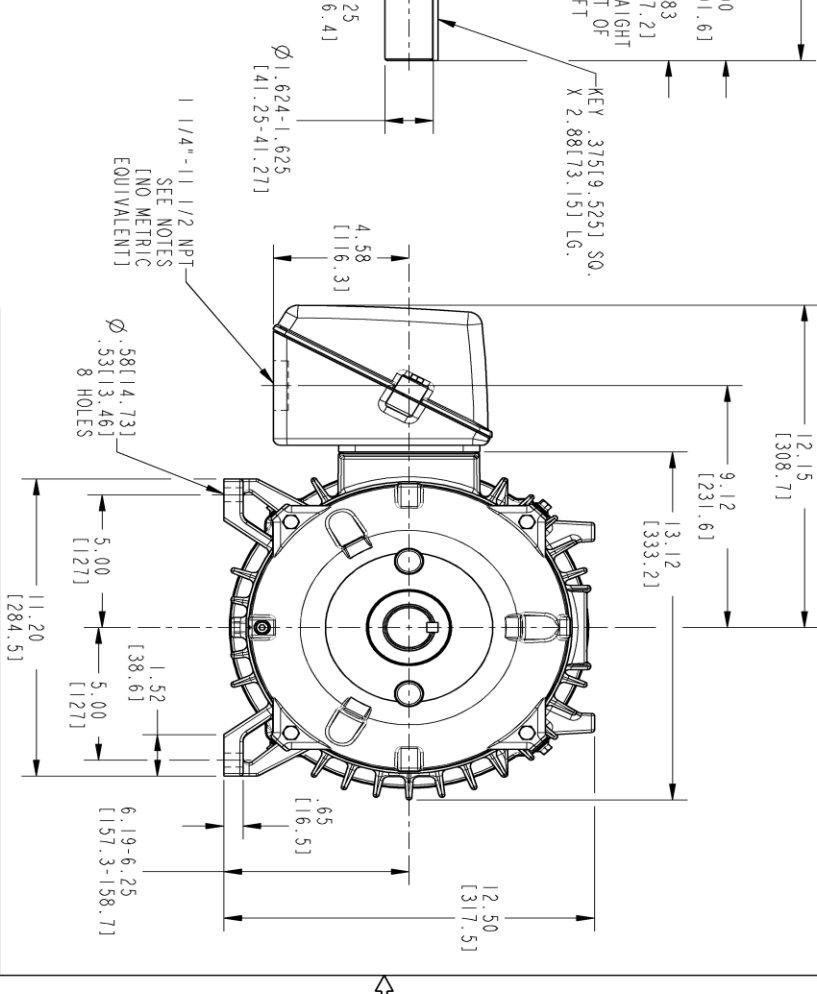
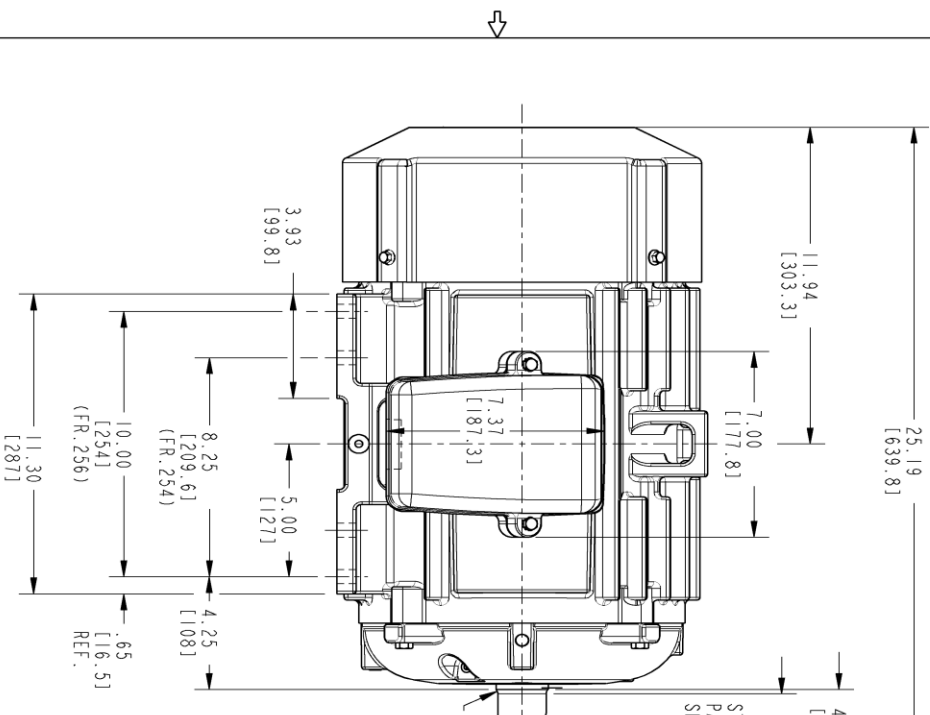
Open Circuit A-C:	0.412	Short Circuit D-C:	0.012
Short Circuit A-C:	0.024	X/R Ratio:	4.613
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:

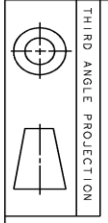
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: FT ASSEMBLY AS SHOWN.
 NOTE 3: ALL DIMENSIONS ARE IN INCHES & BRACKETED DIMENSIONS ARE IN METRIC MM



PROPRIETARY INFORMATION

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REV.	DESCRIPTION	DATE	APPROVED



SIGNATURES	DATE
MODEL: NARAYANA [09/24/21]	
DETAIL: NARAYANA [09/24/21]	
DESIGN: VIJANT [09/24/21]	
ENGR: DHERRAJ [09/24/21]	
QC: []	
QUALITY: NARAYANA [09/24/21]	
ISSUED: []	
SOLID MODEL: 4002B5825GAP5201	

GE INDUSTRIAL MOTORS
 a WOLONG company

INDUCTION MOTOR OUTLINE
 GP CONSTRUCTION

FR 254/256 T TFC, 137 CULM C-BOX

SCALE: 0.250 REF. No.: 4002B5825GAP5201

4002B5825GAP5201

REV. 000

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PA1	4004D5283SB1
Bearing	235A2607AA02	235A2607AA02
Slinger/Inproseal	149C4399G02	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	4003C5805PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728SH-G04

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

