



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:	5KS145BAA105
Catalog Number:	M1490
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5814GAP5201

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: 5KS145BAA105
Outline Drawing: 4002B5814GAP5201
Connection Diagram: GEM2034E-FIG3
Instruction Book: GEI-56128
Design Code: 14BD0076A
Type: KS
Frame: 145T
Phases: 3
Poles: 2
Output Power: 2HP 1.5KW
RPM: 3480
Voltage: 230/460
Hertz: 60
Amps - FL: 5.4/2.7
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 50 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: 85.5 %
Guaranteed Efficiency: 82.5 %
3/4 Load Efficiency: --
KVA Code: L
Max KVAR: 0.8
Power Factor: 80.5
Bearing - DE: 6205-2ZC3
Bearing - ODE: 6205-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-5.6A



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 30 CU IN-0.75 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 -5.6 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 14BD0076A

Marks:

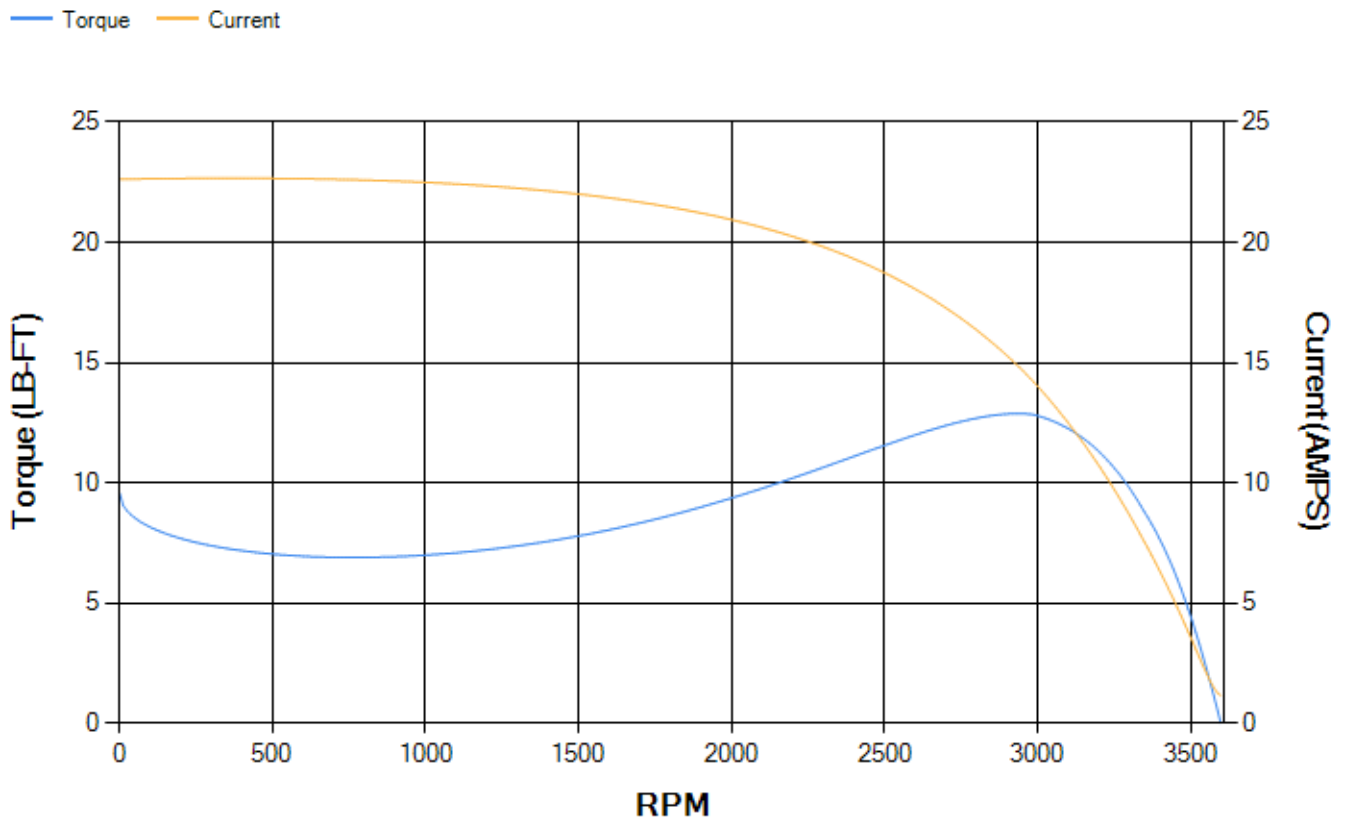
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	84.57	85.01	85.67	85.46	83.52	75.48	0.00
% PF	84.35	83.13	84.36	74.14	62.28	41.4	11.07
AMPS	3.28	3.05	2.57	2.22	1.8	1.5	1.15

TORQ(FL)#FT	2.99	TORQ(LR)%FL	320.96	TORQ(BD)%FL	419.68
AMPS(LR)	22.63	PF AT START	0.54		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 15 Lb-Ft Sq (0.63 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 23 seconds. Safe stall time at 100% voltage is 51 seconds cold, 35 seconds hot. Rotor inertia is 0.04 Lb-Ft Sq (0 Kg-meter Sq).

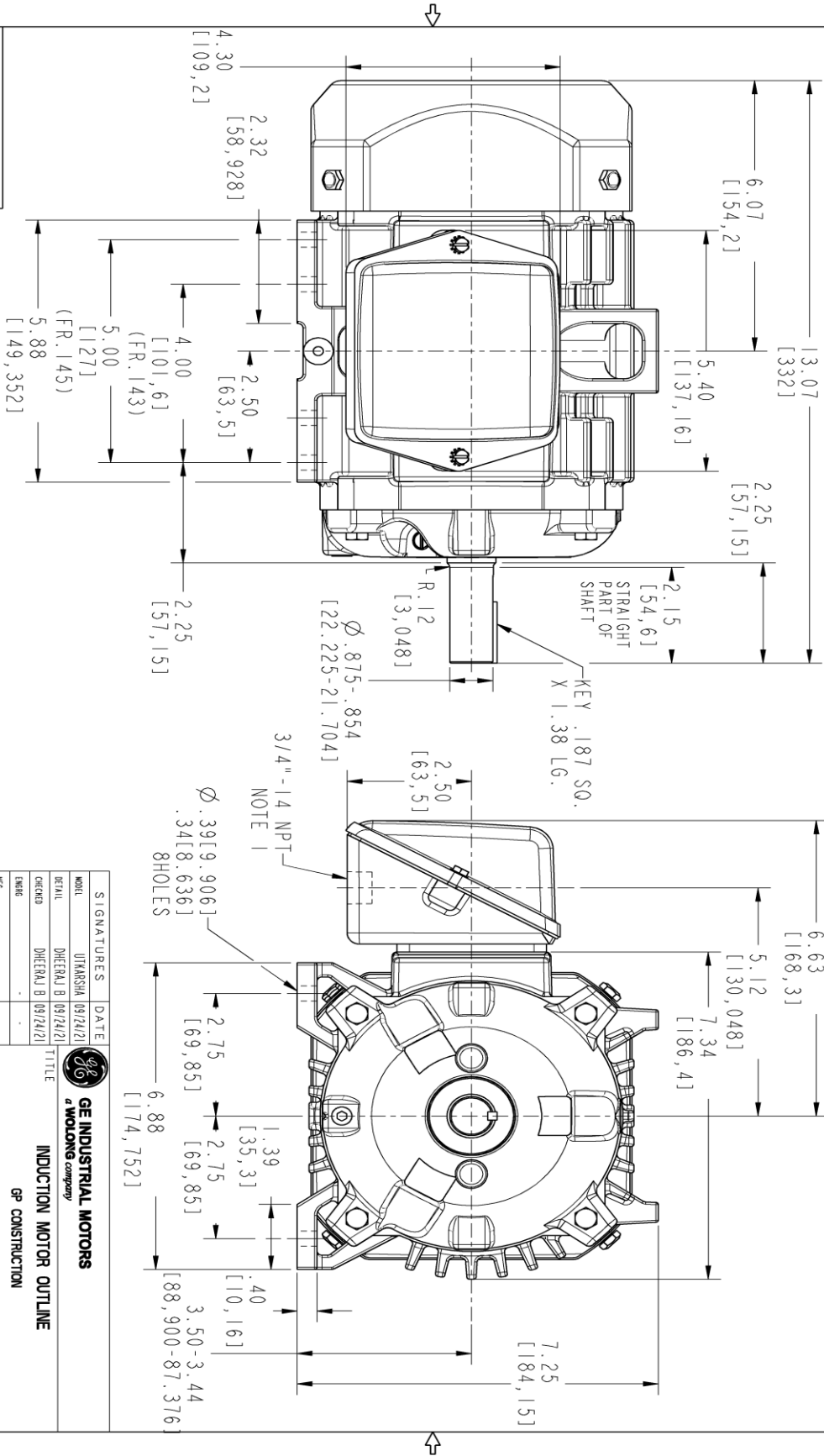
Open Circuit A-C:	0.242	Short Circuit D-C:	0.005
Short Circuit A-C:	0.009	X/R Ratio:	1.917
Stator Slots:	24	Rotor Slots:	34

Speed Torque Current Curve (First Connection, First Speed)



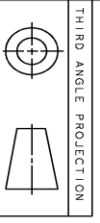
Marks:

NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
NOTE 2: FI ASSEMBLY AS SHOWN.



PROPRIETARY INFORMATION
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REV.	DESCRIPTION	DATE	APPROVED
000			



SIGNATURES	DATE
UTAKASHA [09/24/21]	
DHEEMAJ B [09/24/21]	
DHEEMAJ B [09/24/21]	
ENG	
QC	
ISSUED	
SOLID MODEL: 4002B5814GAP5201	

TITLE	SCALE	REF. NO.
INDUCTION MOTOR OUTLINE GP CONSTRUCTION FINE: FR 143/45 T 1EFC	0.500	4002B5814GAP5201

QUALITY	SIZE/DRAWING	REV
UTAKASHA [09/24/21]	B	000



4002B5814GAP5201 000

Marks:

Connection Diagram
GEM2034E-FIG3



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5280PA1	4004D5280SB1
Bearing	235A2600AA02	235A2600AA02
Slinger/Inproseal	149C4399G15	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	4001A5914AM-G01
Fan Cover	4003C5808PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5718PX-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

