



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:	5KS213BAA105
Catalog Number:	M1144
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
Outline Drawing:	4002B5821GAP5201

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:	5KS213BAA105	Estimated Weight:	200 Lbs
Outline Drawing:	4002B5821GAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	21BD0225A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	213T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	2	Nominal Efficiency:	89.5 %
Output Power:	7.5HP 5.6KW	Guaranteed Efficiency:	87.5 %
RPM:	3535	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	H
Hertz:	60	Max KVAR:	2.3
Amps - FL:	18.2/9.1	Power Factor:	86.5
Service Factor:	1.15	Bearing - DE:	6208-2ZC3
Alt Service Factor:	--	Bearing - ODE:	6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-18.1A



Additional Information:

2P - T EXTN
STANDARD FLOOR MOUNT
C/BOX 55 CU IN-1.00 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-18.1 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 21BD0225A

Marks:

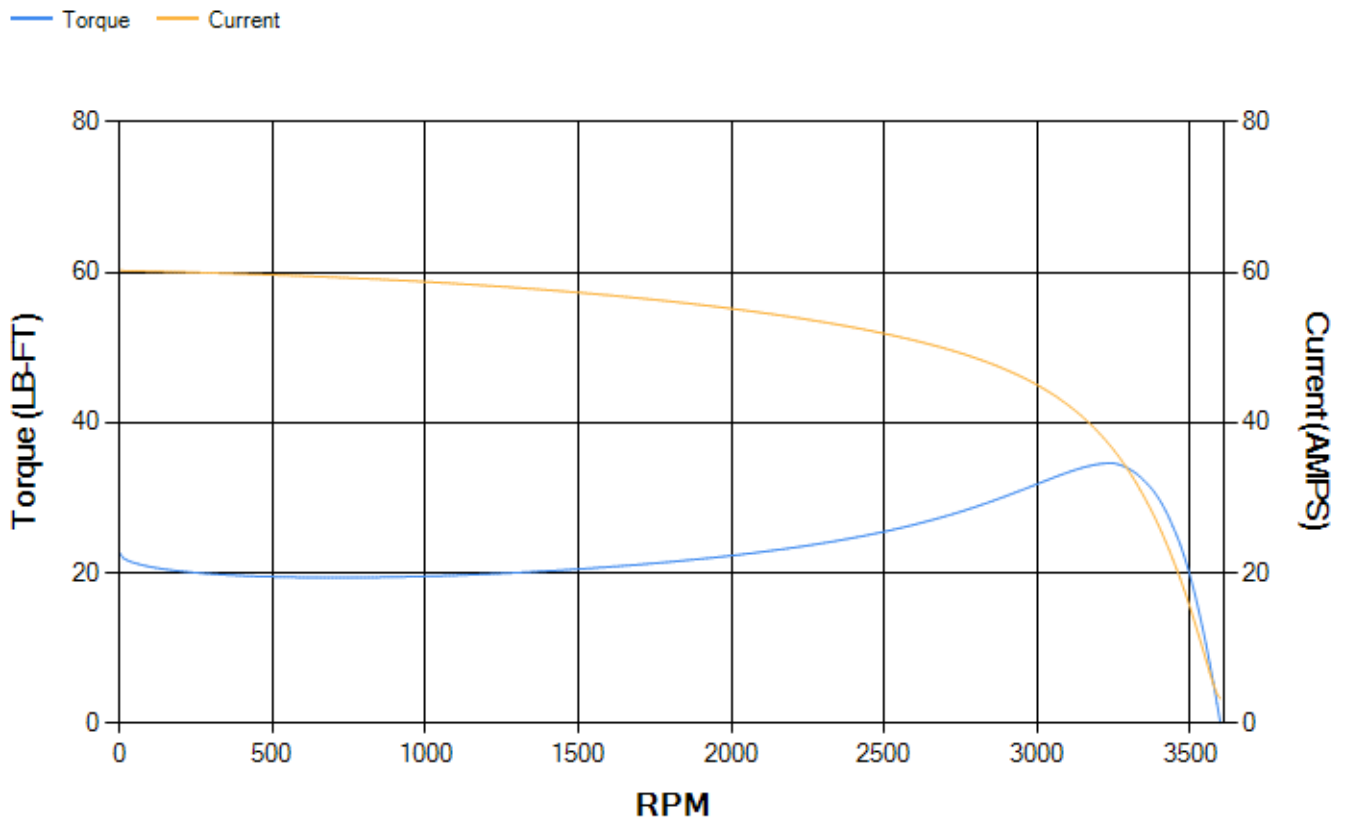
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	88.69	89.16	89.91	90.08	89.17	83.96	0.00
% PF	87.94	87.53	86.44	82.69	73.94	52.88	8.85
AMPS	11.25	10.34	9.02	7.07	5.32	3.95	3.25

TORQ(FL)#FT	11.15	TORQ(LR)%FL	203.68	TORQ(BD)%FL	308.31
AMPS(LR)	60.24	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 80 Lb-Ft Sq (3.37 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 47 seconds. Safe stall time at 100% voltage is 82 seconds cold, 58 seconds hot. Rotor inertia is 0.31 Lb-Ft Sq (0.01 Kg-meter Sq).

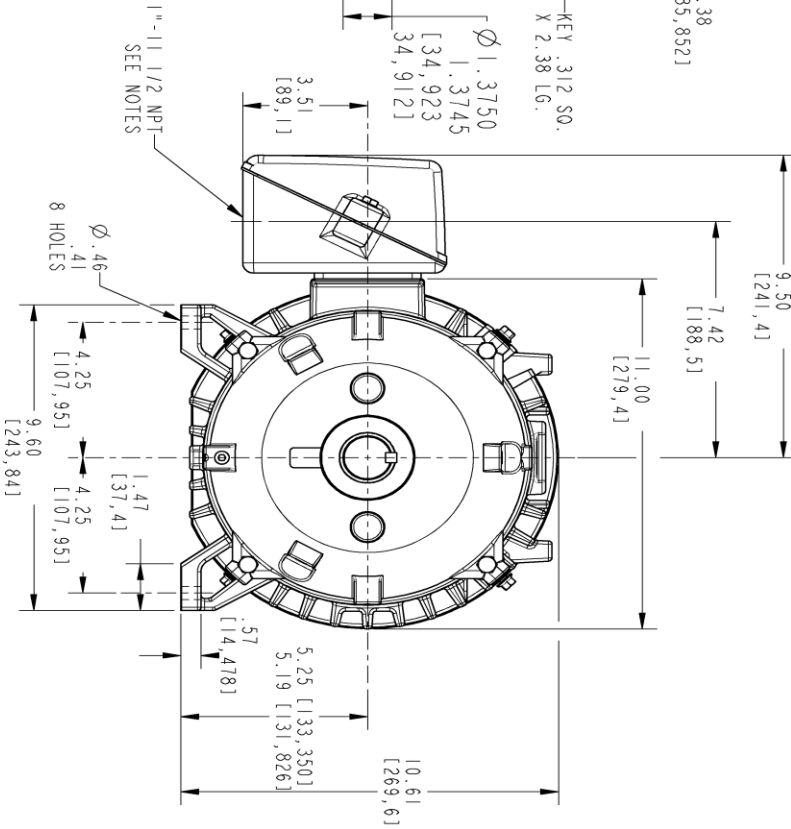
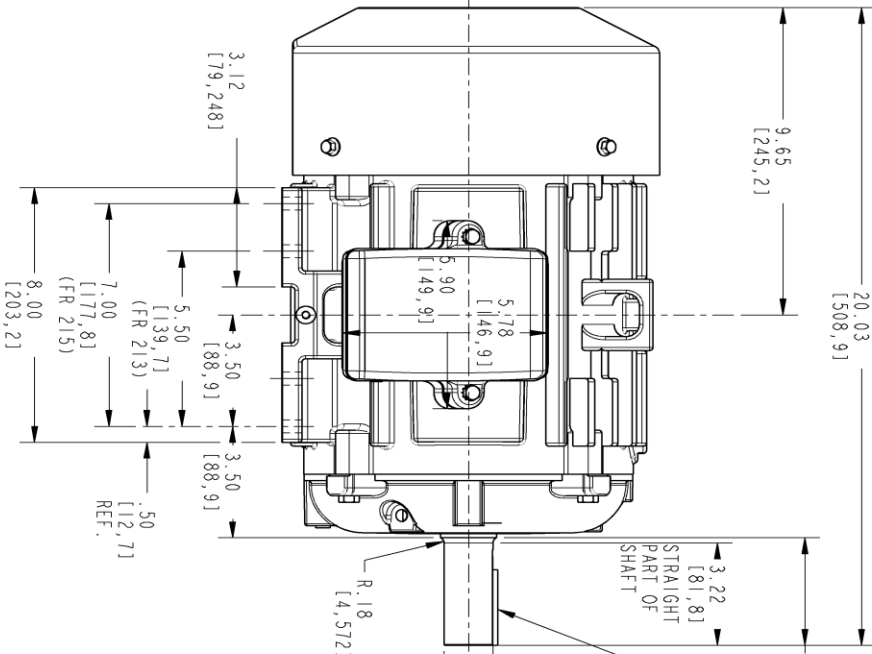
Open Circuit A-C:	0.387	Short Circuit D-C:	0.01
Short Circuit A-C:	0.018	X/R Ratio:	3.797
Stator Slots:	36	Rotor Slots:	26

Speed Torque Current Curve (First Connection, First Speed)



Marks:

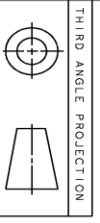
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: F1 ASSEMBLY AS SHOWN.
 NOTE 3: ALL DIMENSIONS ARE IN INCHES BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS)



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REV.	DESCRIPTION	DATE	APPROVED

ALL DIMENSIONS ARE IN INCHES



SIGNATURES		DATE	
MODEL	NARAYANA	09/24/21	
DETAIL	NARAYANA	09/24/21	
DESIGN	VILANT	09/24/21	
ENGR	DHETRAJ	09/24/21	
QC			
QUALITY			
ISSUED	NARAYANA	09/24/21	
SOLID MODEL:	4002B5821GAP5201		

TITLE		SCALE: 0.300	
INDUCTION MOTOR OUTLINE		REF. No.: 4002B5821PA2201	
GP CONSTRUCTION			
MFG: FR 29/26 T TEC			
SIZE/DRAWING	4002B5821GAP5201	REV	0
		SHEET	1 of 1



Marks:

Connection Diagram
GEM2034E-FIG3



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5282PA1	4004D5282SB1
Bearing	235A2603AA02	235A2603AA02
Slinger/Inproseal	149C4399G01	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G01
Fan Cover	4003C5806PA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PT-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

