



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:	5KS256BAA305
Catalog Number:	M1149
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG3
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:	5KS256BAA305	Estimated Weight:	350 Lbs
Outline Drawing:	4002B5825GAP5201	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG3	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	25BD3063A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	256T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	91.0 %
Output Power:	10HP 7.4KW	Guaranteed Efficiency:	89.5 %
RPM:	1170	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	H
Hertz:	60	Max KVAR:	4.0
Amps - FL:	25.8/12.9	Power Factor:	79.5
Service Factor:	1.15	Bearing - DE:	6309-2ZC3
Alt Service Factor:	--	Bearing - ODE:	6309-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-27.7A



Additional Information:

6P - 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 -27.7 AMPS WITH 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 25BD3063A

Marks:

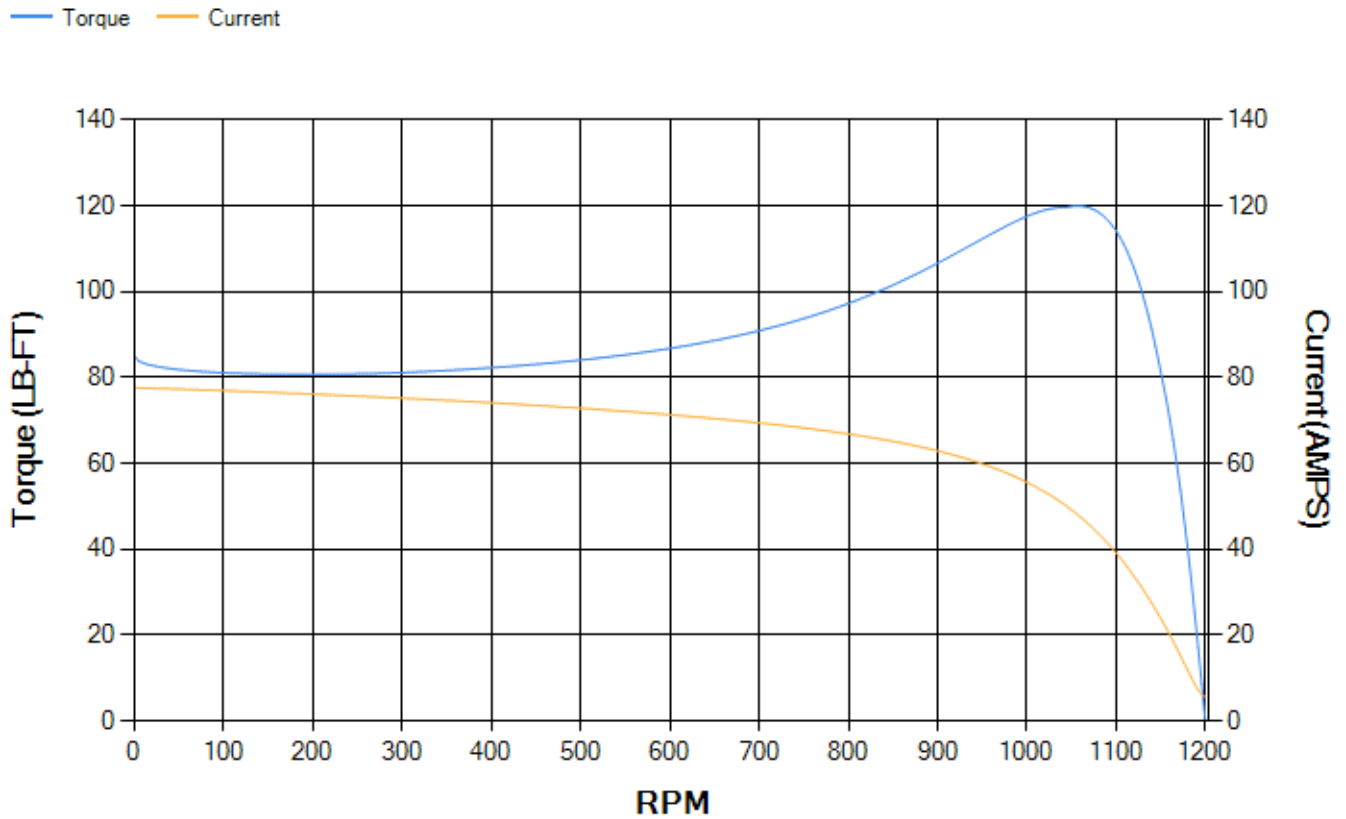
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.75	90.3	91.18	91.66	91.33	87.63	0.00
% PF	81.94	81.26	79.61	74.36	63.45	41.57	4.86
AMPS	15.91	14.67	12.89	10.3	8.08	6.42	5.65

TORQ(FL)#FT	44.79	TORQ(LR)%FL	189.85	TORQ(BD)%FL	265.88
AMPS(LR)	77.66	PF AT START	0.4		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1008 Lb-Ft Sq (42.44 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 51 seconds. Safe stall time at 100% voltage is 112 seconds cold, 76 seconds hot. Rotor inertia is 1.99 Lb-Ft Sq (0.08 Kg-meter Sq).

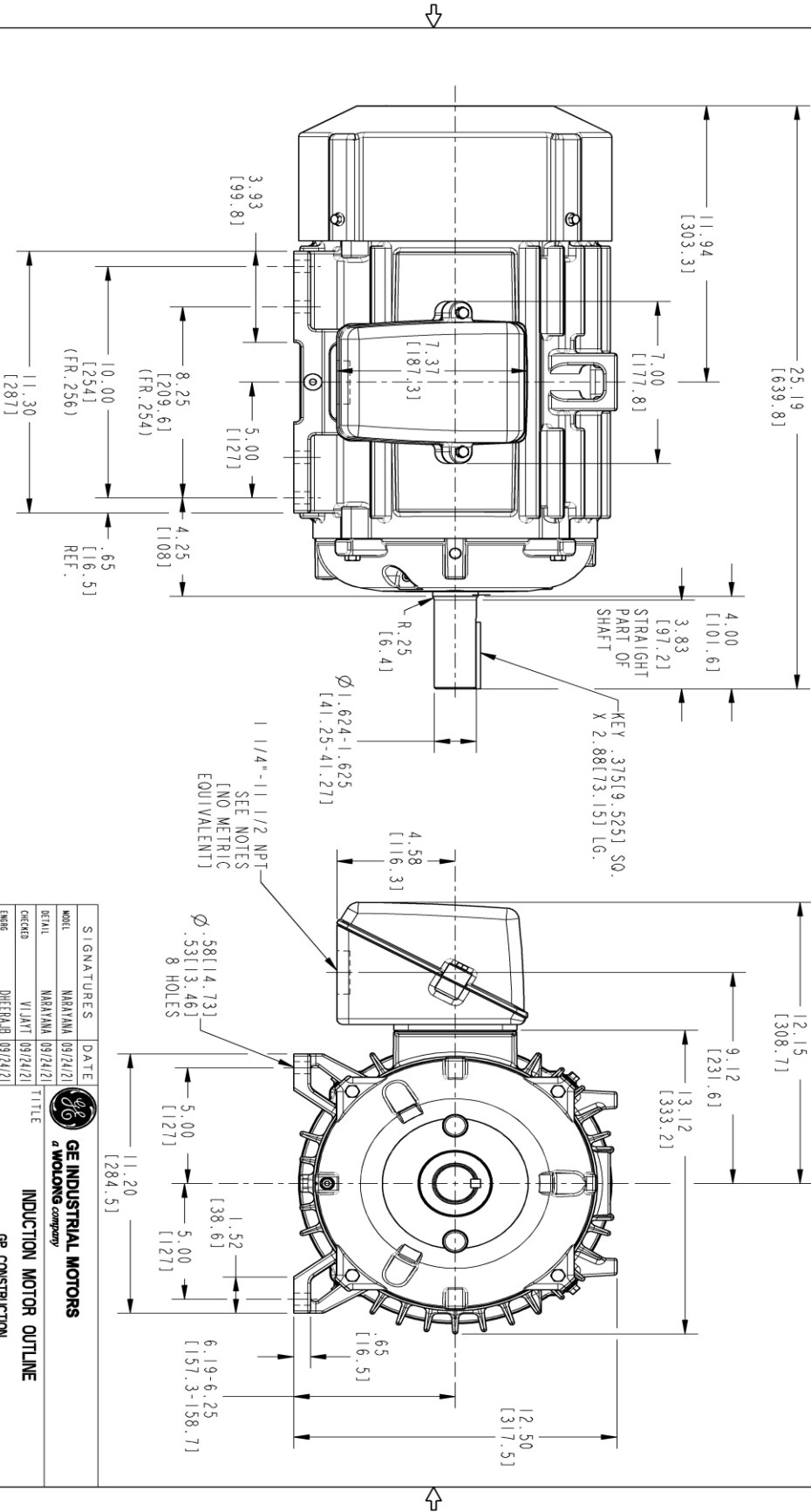
Open Circuit A-C:	0.25	Short Circuit D-C:	0.012
Short Circuit A-C:	0.016	X/R Ratio:	4.347
Stator Slots:	54	Rotor Slots:	42

Speed Torque Current Curve (First Connection, First Speed)



Marks:

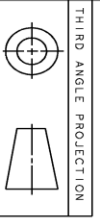
NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.
 NOTE 2: FT ASSEMBLY AS SHOWN.
 NOTE 3: ALL DIMENSIONS ARE IN INCHES & BRACKETED DIMENSIONS ARE IN METRIC MM



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REV.	DESCRIPTION	DATE	APPROVED

SIZE: DRAWING NO. 4002B58256GAP5201 000



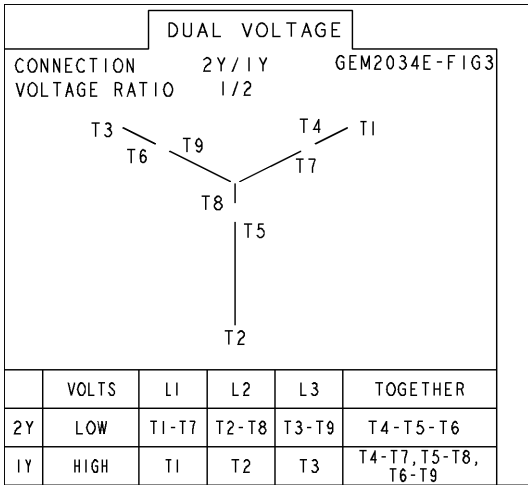
THIRD ANGLE PROJECTION

SIGNATURES	DATE	TITLE
DESIGNER: NARAYANA [09/24/21]		GE INDUSTRIAL MOTORS a WOLONG company INDUCTION MOTOR OUTLINE GP CONSTRUCTION FR 254/256 T TERC. 137 CULM C-BOX
DRAWN: VIJANT [09/24/21]		
CHECKED: DHIRENAB [09/24/21]		
DATE: [09/24/21]		
ISSUED: NARAYANA [09/24/21]		SCALE: 0.250
SOLID MODEL: 4002B58256AP5201		REF. No.: 4002B58256AP201

4002B58256GAP5201 000

Marks:

Connection Diagram
GEM2034E-FIG3



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	159C6800G01
Fan Cover	4003C5805PA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

