



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:	5KS256BAA105
Catalog Number:	M1153
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:	5KS256BAA105
Outline Drawing:	4002B5825GAP5201
Connection Diagram:	GEM2034E-FIG9
Instruction Book:	GEI-56128
Design Code:	25BD0065A
Type:	KS
Frame:	256T
Phases:	3
Poles:	2
Output Power:	20HP 14.8KW
RPM:	3540
Voltage:	230/460
Hertz:	60
Amps - FL:	45.2/22.6
Service Factor:	1.15
Alt Service Factor:	--

Estimated Weight:	350 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:	91.0 %
Guaranteed Efficiency:	89.5 %
3/4 Load Efficiency:	--
KVA Code:	G
Max KVAR:	2.3
Power Factor:	91.0
Bearing - DE:	6309ZC3
Bearing - ODE:	6309ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31; 208V-51.1A



Additional Information:

2P - 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 -51.1 AMPS WITH 1.00 SF



Performance Characteristics

1st Winding 1st Connection

Design: 25BD0065A

Marks:

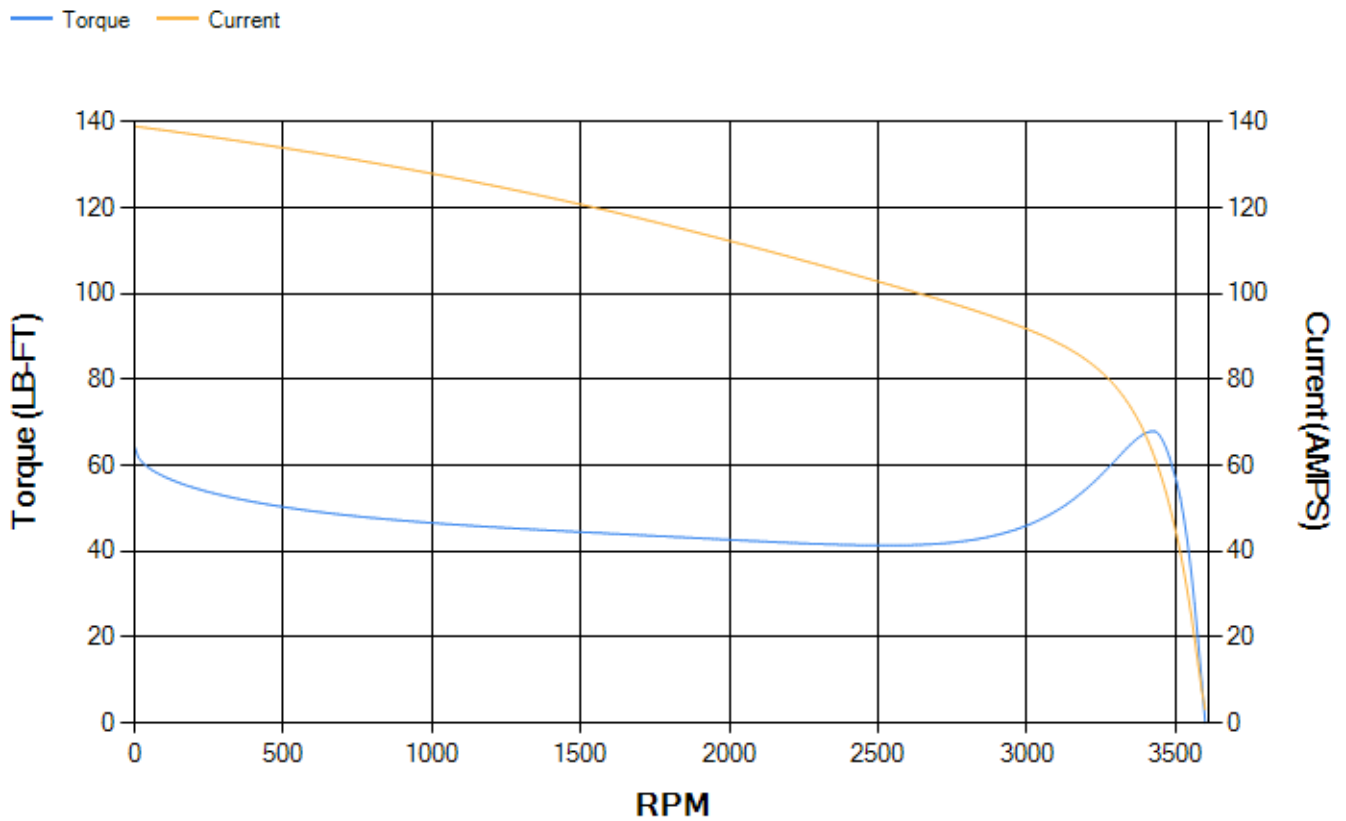
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	89.26	90.15	91.45	92.55	93.01	91.04	0.00
% PF	88.86	89.88	90.97	91.68	90.29	81.18	11.53
AMPS	29.5	26.57	22.5	16.54	11.15	6.33	3.19

TORQ(FL)#FT	29.65	TORQ(LR)%FL	217.26	TORQ(BD)%FL	228.28
AMPS(LR)	139.04	PF AT START	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 143 Lb-Ft Sq (6.02 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 44 seconds. Safe stall time at 100% voltage is 94 seconds cold, 55 seconds hot. Rotor inertia is 1.88 Lb-Ft Sq (0.08 Kg-meter Sq).

Open Circuit A-C:	1.246	Short Circuit D-C:	0.013
Short Circuit A-C:	0.028	X/R Ratio:	4.894
Stator Slots:	36	Rotor Slots:	26

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	4004D5283PA1	4004D5283SB1
Bearing	235A2607AA01	235A2607AA01
Slinger/Inproseal	149C4399G02	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6704G02
Fan Cover	4003C5805PB1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

