



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 2, 2023

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

Model Number:	5KS447BAA201
Catalog Number:	M1009
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239CGJ01AA

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:	5KS447BAA201	Estimated Weight:	2770 Lbs
Outline Drawing:	239CGJ01AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	49BD1177A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	447TC	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.4 %
RPM:	1790	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	43.5
Amps - FL:	219.0	Power Factor:	89.0
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

VT 0-60 HZ NEMA MG1-31



Additional Information:

4P - T EXTN
C FACE WITH 16.00 RABBIT ON DE
C/BOX 700 CU IN - 3.00" NPT
F1 MOUNTING
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 0-60 HZ



Performance Characteristics

1st Winding 1st Connection

Design: 49BD1177A

Marks:

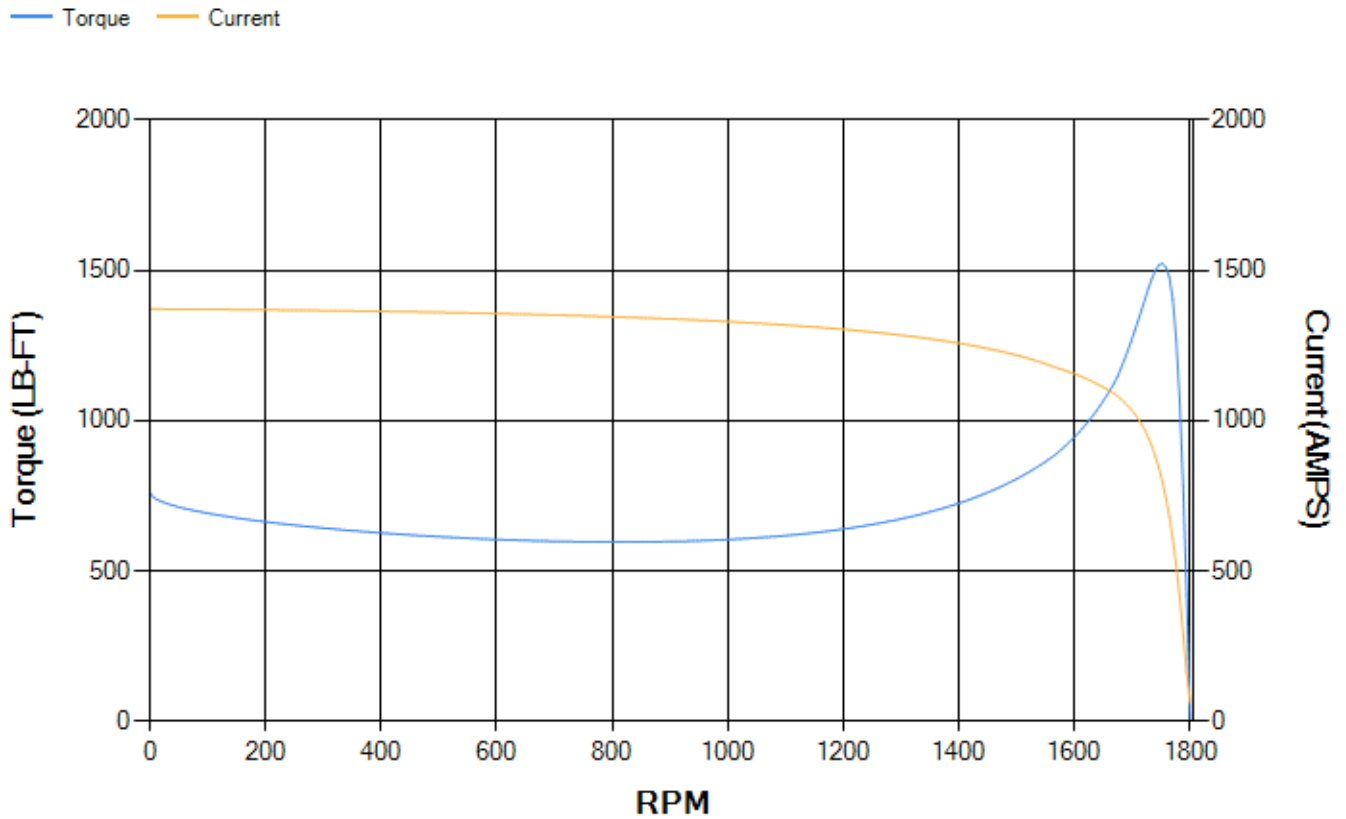
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.58	95.82	96.34	96.52	96.53	95.25	0.00
% PF	89.2	89.16	88.76	86.63	80.37	60.76	3.08
AMPS	274.46	251.96	218.92	167.91	120.64	80.86	60.67

TORQ(FL)#FT	586.55	TORQ(LR)%FL	130.07	TORQ(BD)%FL	259.52
AMPS(LR)	1371.64	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4712 Lb-Ft Sq (198.38 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 54 seconds. Safe stall time at 100% voltage is 163 seconds cold, 84 seconds hot. Rotor inertia is 105.05 Lb-Ft Sq (4.42 Kg-meter Sq).

Open Circuit A-C:	1.749	Short Circuit D-C:	0.027
Short Circuit A-C:	0.07	X/R Ratio:	10.252
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4357AA1	115E4354ZA1
Bearing	235A2614AA01	235A2616AA01
Slinger/Inproseal	149C4399G07	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	128D6851AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

