



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

February 17, 2023

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

Model Number:	5KS449BAA308
Catalog Number:	M1139
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG8
Outline Drawing:	239CG800AA

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:	5KS449BAA308	Estimated Weight:	2990 Lbs
Outline Drawing:	239CG800AA	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG8	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	49BD3187A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	200HP 148KW	Guaranteed Efficiency:	95.0 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	54.3
Amps - FL:	229.0	Power Factor:	85.5
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:

6P - T EXTN - SPLIT LEAD
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: 49BD3187A

Marks:

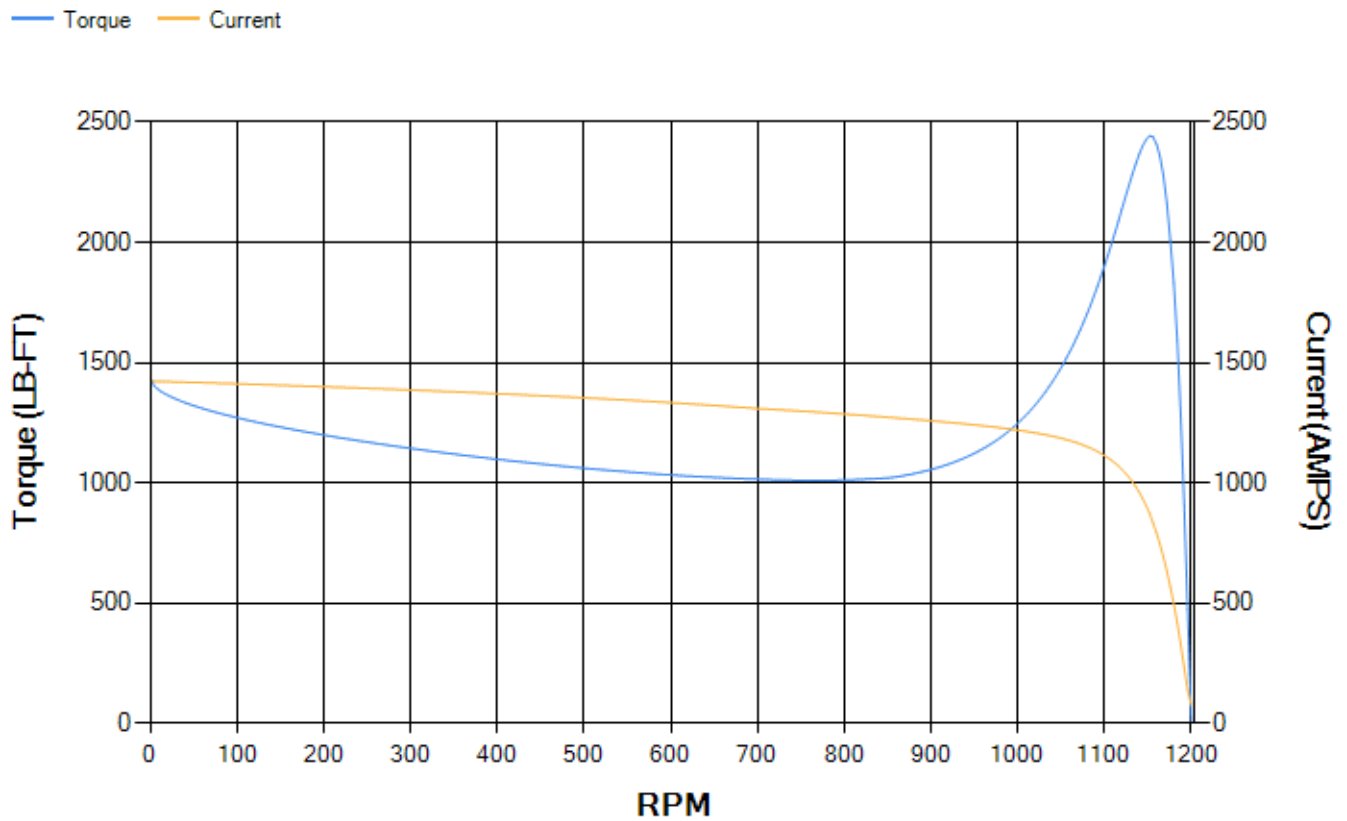
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.26	95.49	95.99	96.08	95.91	94.08	0.00
% PF	86.22	86.04	85.32	82.25	74.26	52.92	3.27
AMPS	284.9	262.02	228.6	177.65	131.41	93.99	75.71

TORQ(FL)#FT	881.28	TORQ(LR)%FL	162.78	TORQ(BD)%FL	277.05
AMPS(LR)	1422.95	PF AT START	0.27		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 14093 Lb-Ft Sq (593.32 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 60 seconds. Safe stall time at 100% voltage is 127 seconds cold, 72 seconds hot. Rotor inertia is 182.7 Lb-Ft Sq (7.69 Kg-meter Sq).

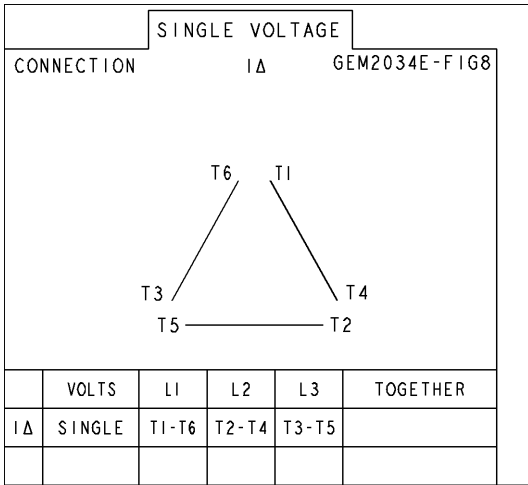
Open Circuit A-C:	1.107	Short Circuit D-C:	0.034
Short Circuit A-C:	0.054	X/R Ratio:	12.713
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG8



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4354ZA1
Bearing	235A2614AA01	235A2616AA01
Slinger/Inproseal	149C4399G07	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6851AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

