



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:	5KS449BAA208
Catalog Number:	M1933
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG20
Outline Drawing:	239CG800AC

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:	5KS449BAA208	Estimated Weight:	2940 Lbs
Outline Drawing:	239CG800AC	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG20	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	GP
Design Code:	49BD1497A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	F
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	250HP 185KW	Guaranteed Efficiency:	95.4 %
RPM:	1790	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	58.8
Amps - FL:	276.0	Power Factor:	88.0
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
VT 0-60 HZ NEMA MG1-31



Additional Information:

4P - T EXTN - SPLIT LEAD
C/BOX 1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
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: 49BD1497A

Marks:

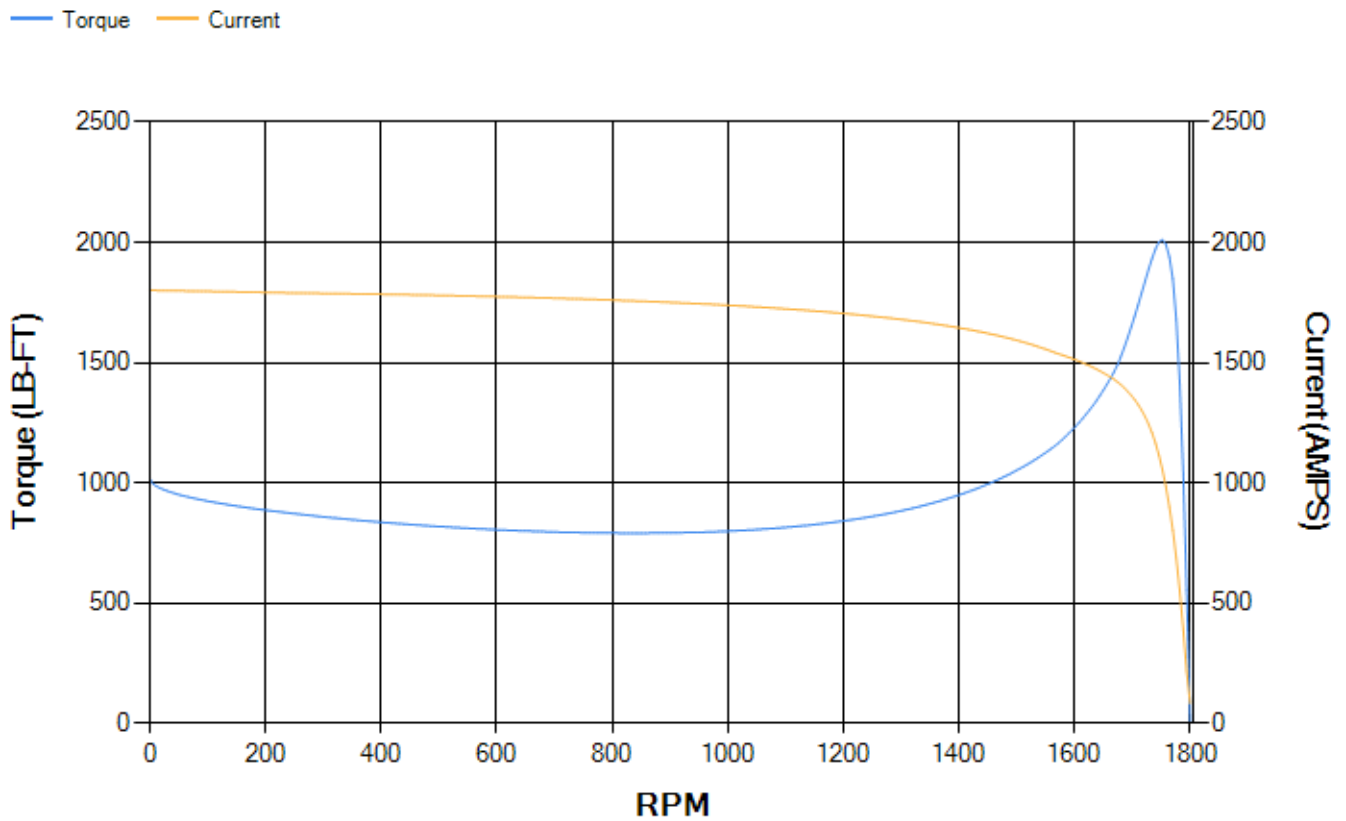
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.8	95.93	96.28	96.11	95.6	93.11	0.00
% PF	88.69	88.56	88	85.52	78.71	58.74	4.68
AMPS	344.23	316.72	276.19	213.52	155.49	106.95	82.02

TORQ(FL)#FT	732.65	TORQ(LR)%FL	138.95	TORQ(BD)%FL	274.26
AMPS(LR)	1800.5	PF AT START	0.23		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 9420 Lb-Ft Sq (396.58 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 80 seconds. Safe stall time at 100% voltage is 156 seconds cold, 96 seconds hot. Rotor inertia is 121.99 Lb-Ft Sq (5.14 Kg-meter Sq).

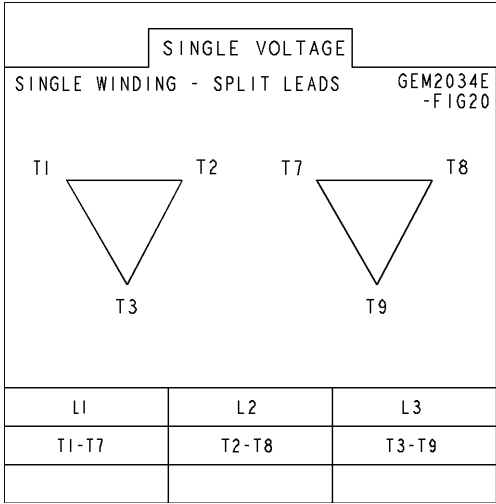
Open Circuit A-C:	1.859	Short Circuit D-C:	0.038
Short Circuit A-C:	0.077	X/R Ratio:	14.368
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG20



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	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

