



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:	5KS449XAA2038
Catalog Number:	M9998
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG25
Outline Drawing:	239C6800YS

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:	5KS449XAA2038	Estimated Weight:	2990 Lbs
Outline Drawing:	239C6800YS	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG25	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD1210A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	96.2 %
Output Power:	350HP 259KW	Guaranteed Efficiency:	95.8 %
RPM:	1790	3/4 Load Efficiency:	96.3 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	83.5
Amps - FL:	389.0	Power Factor:	87.5
Service Factor:	1.15	Bearing - DE:	6318ZC3S0
Alt Service Factor:	--	Bearing - ODE:	6318ZC3S0

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

FOR DIRECT COUPLED LOAD ONLY
 DE BRG 90BC03JP3026, ODE BRG 90BC03JP3026
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS449XAA2038 S/N: XXX
 CSA CERTIFIED CSA09.2216219 FOR EX NA IIC 200 C GC
 CL 1 ZONE2 AEX NA IIC 200C;CL 1 DIV2 GRP ABCD 200C
 IN -25C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR
 SURF TEMP 280C AT 1.15SF ON SINE-WAVE PWR
 OR 200C VT OR --C CT OR --C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0 - 60 HZ, CT - HZ, CHP -HZ.
 EXCEPTION TO IEEE-STD-841-2009: SOUND POWER 92.6
 DBA; DE BRG RISE 48.2 C; TEMPERATURE RISE 80.3 C



Additional Information:

4P - T EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
1260 CU IN - 2(4.00" NPT) WITH DRAIN HOLES
C/B GRD PLATE
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
COPPER WASHER UNDER HEADS OF BEARING CAP BOLTS,
APPLY TITE-SEAL (A50CD427A) ON BEARING CAP SCREWS,
RABBETS AND PLUG THREADS.
HEAT STABILIZED BEARINGS
GROUND PAD
F1 MOUNTING
CLASS F RISE @ 1.00 S.F & 1.15 SF



Performance Characteristics

1st Winding 1st Connection

Design: 49BD1210A

Marks:

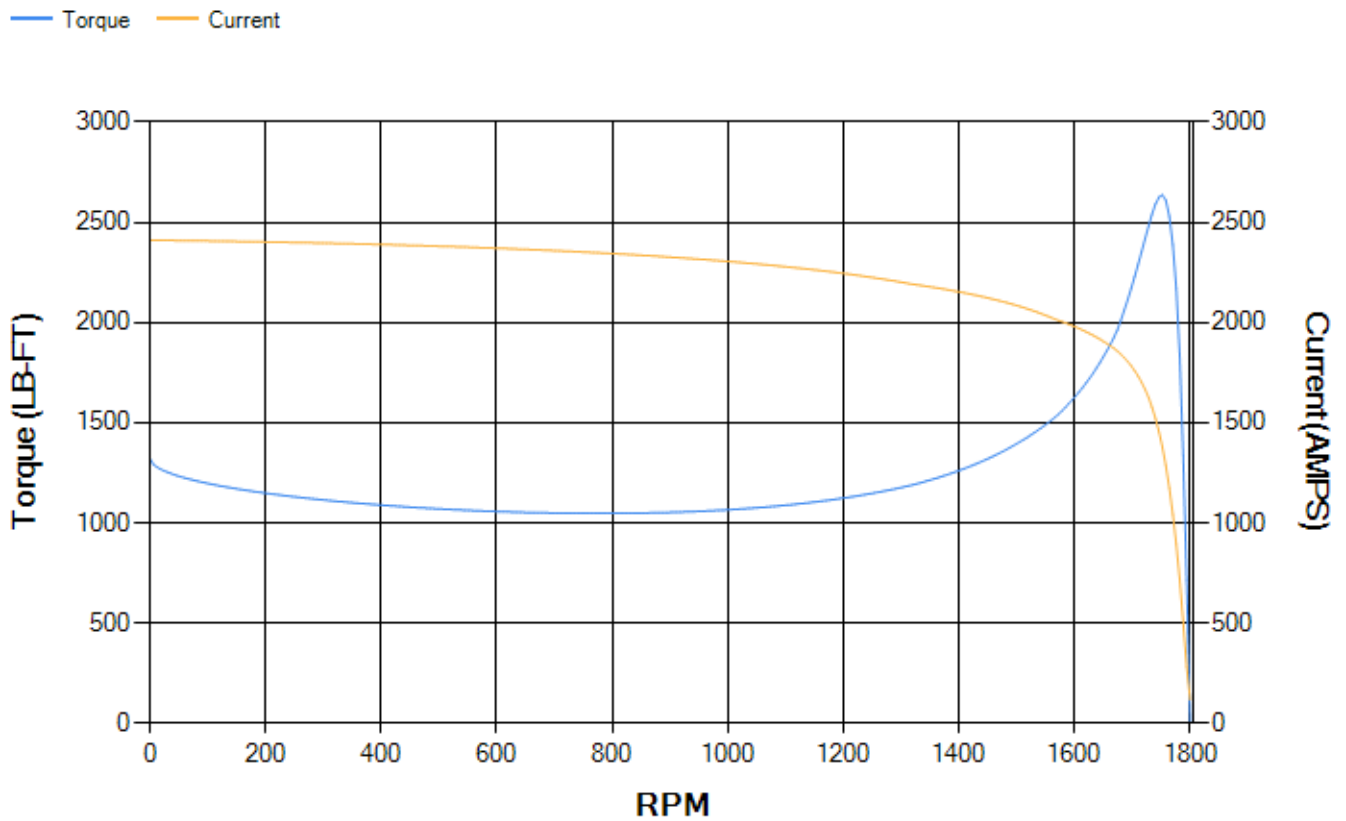
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.6	95.8	96.25	96.27	96.02	94.13	0.00
% PF	87.87	87.82	87.35	84.94	78.08	57.82	3.73
AMPS	487.41	447.76	389.67	300.46	218.45	150.48	116.51

TORQ(FL)#FT	1026.83	TORQ(LR)%FL	129	TORQ(BD)%FL	256.59
AMPS(LR)	2411.04	PF AT START	0.22		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 7202 Lb-Ft Sq (303.2 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 48 seconds. Safe stall time at 100% voltage is 126 seconds cold, 57 seconds hot. Rotor inertia is 127.08 Lb-Ft Sq (5.35 Kg-meter Sq).

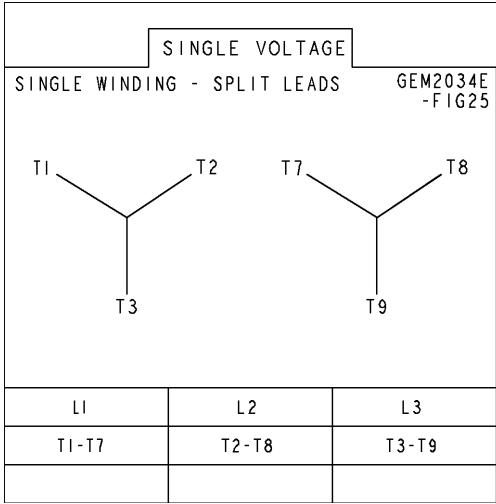
Open Circuit A-C:	1.509	Short Circuit D-C:	0.035
Short Circuit A-C:	0.066	X/R Ratio:	13.222
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG25



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4355AA1	115E4355LM1
Bearing	235A2514AG03	235A2514AG03
Slinger/Inproseal	235A4575GS5	235A4575GS5

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G03
Fan Cover	128D6841AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058AA-G02

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

