



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

May 8, 2021

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

Model Number:	5KS449SAA301D4
Catalog Number:	M8963
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG8
Outline Drawing:	239C6800APZ

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:	5KS449SAA301D4	Estimated Weight:	3150 Lbs
Outline Drawing:	239C6800APZ	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG8	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	49BD3024A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	449T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	250HP 185KW	Guaranteed Efficiency:	95.4 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	74.3
Amps - FL:	293.0	Power Factor:	83.5
Service Factor:	1.15	Bearing - DE:	6318ZC3
Alt Service Factor:	--	Bearing - ODE:	6318ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

FOR DIRECT COUPLED LOAD ONLY

DE BRG 90BC03JP3, ODE BRG 90BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS449SAA301D4 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR

SURF TEMP 260C AT 1.15SF ON SINE-WAVE PWR

OR 215C VT OR --C CT OR 215C CHP PWM CONTROL

ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB

VT 0-60 HZ, CT -- HZ, CHP 60-90 HZ.



Additional Information:

6P - T EXTN - SPLIT LEAD
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
OIL RESISTANT SLEEVING ON LEADS
.0015" TIR SHAFT RUNOUT
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST
REPORT INCLUDED IN C/B
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 49BD3024A

Marks:

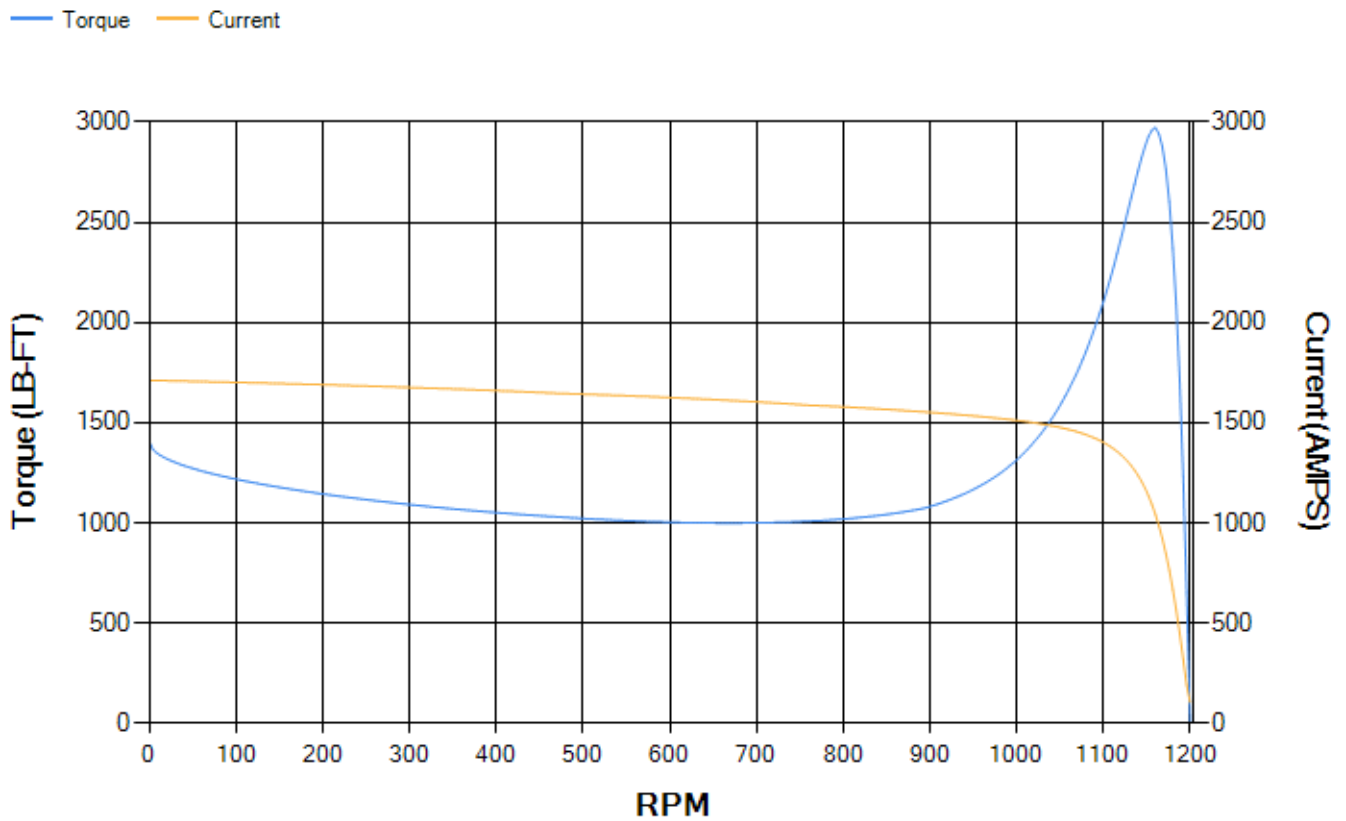
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.06	95.33	95.88	96.06	95.99	94.37	0.00
% PF	84.8	84.56	83.71	80.24	71.52	49.58	2.75
AMPS	362.84	333.79	291.54	227.68	170.41	125.04	103.57

TORQ(FL)#FT	1101.39	TORQ(LR)%FL	127.24	TORQ(BD)%FL	269.42
AMPS(LR)	1711.12	PF AT START	0.24		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 12787 Lb-Ft Sq (538.33 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 58 seconds. Safe stall time at 100% voltage is 146 seconds cold, 69 seconds hot. Rotor inertia is 204.62 Lb-Ft Sq (8.61 Kg-meter Sq).

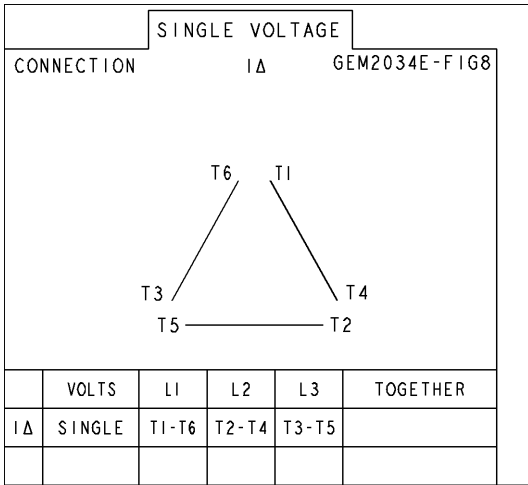
Open Circuit A-C:	1.056	Short Circuit D-C:	0.032
Short Circuit A-C:	0.059	X/R Ratio:	11.935
Stator Slots:	72	Rotor Slots:	58

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	115E4355LM1
Bearing	235A2514AG01	235A2514AG01
Slinger/Inproseal	149C4399G07	149C4399G07

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

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

