



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

January 30, 2021

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

Model Number:	5KS364SAA405D
Catalog Number:	M9181
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	239C6200GM

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:	5KS364SAA405D	Estimated Weight:	960 Lbs
Outline Drawing:	239C6200GM	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	36BD4024A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	364T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	8	Nominal Efficiency:	91.7 %
Output Power:	30HP 22.2KW	Guaranteed Efficiency:	91.0 %
RPM:	885	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	G
Hertz:	60	Max KVAR:	17.4
Amps - FL:	86.8/43.4	Power Factor:	70.5
Service Factor:	1.15	Bearing - DE:	6314ZC3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

DE BRG 70BC03JP30, ODE BRG 70BC03JP30
 EXCEPTION-IEEE-STD-841-2009:DUAL VOLTAGE 230/460
 STAMP NP249A5564P051 AS BELOW:
 MODEL:5KS364SAA405D 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 200C VT OR 230C CT OR 200C CHP PWM CONTROL
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
 VT 0-60 HZ, CT 6-60 HZ, CHP 60-90 HZ.



Additional Information:

8P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 346 CU IN - 3.00" NPT
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: 36BD4024A

Marks:

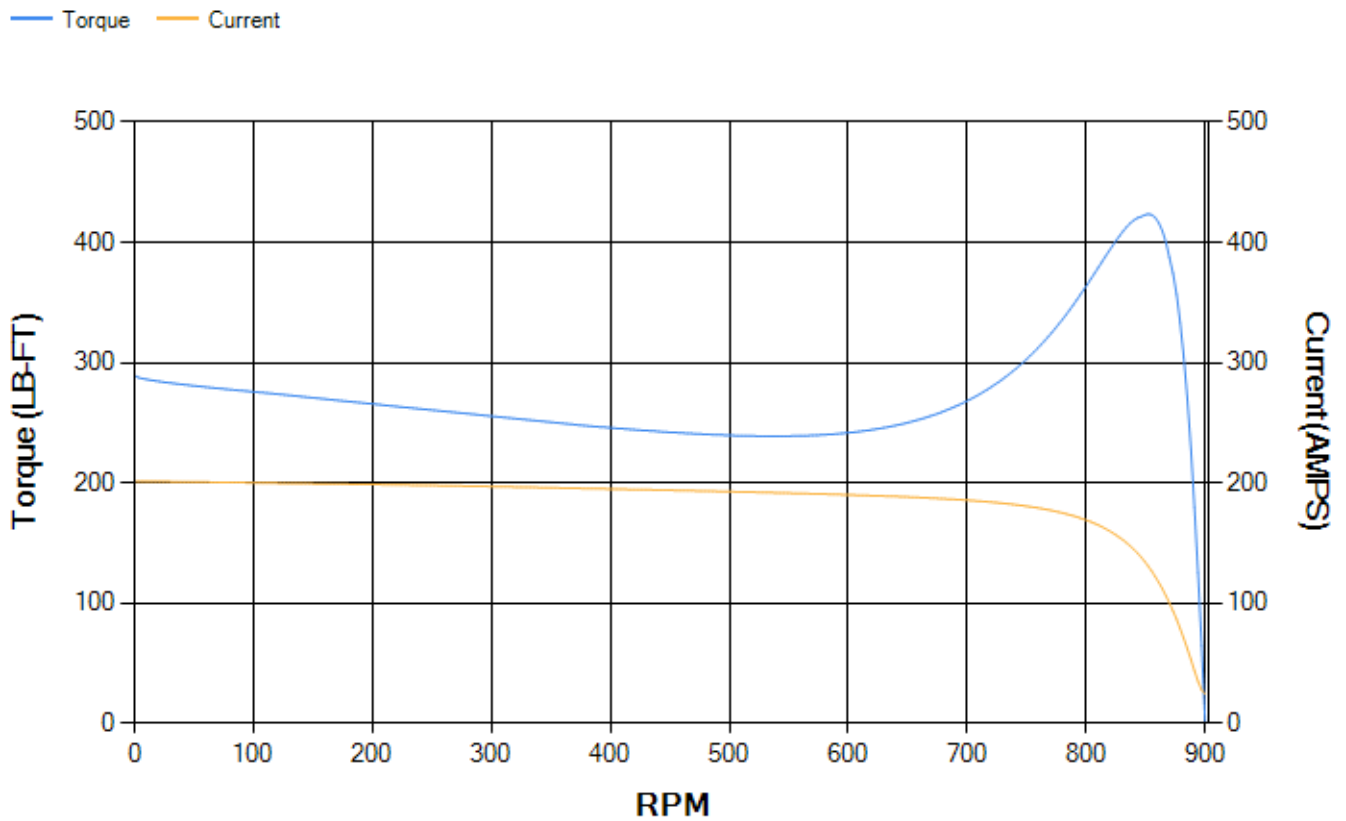
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.25	91.6	92.2	92.24	91.44	87.09	0.00
% PF	74.67	73.39	70.7	63.44	50.88	30.79	3.28
AMPS	51.51	48.03	42.88	35.99	30.17	26.18	24.2

TORQ(FL)#FT	177.5	TORQ(LR)%FL	163	TORQ(BD)%FL	237.19
AMPS(LR)	201.21	PF AT START	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3251 Lb-Ft Sq (136.87 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 44 seconds. Safe stall time at 100% voltage is 126 seconds cold, 67 seconds hot. Rotor inertia is 17.08 Lb-Ft Sq (0.72 Kg-meter Sq).

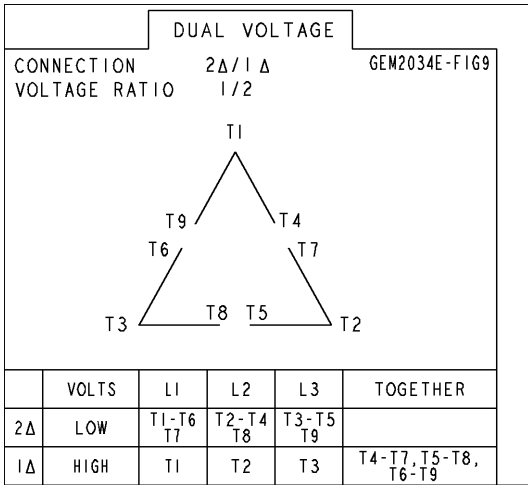
Open Circuit A-C:	0.294	Short Circuit D-C:	0.016
Short Circuit A-C:	0.029	X/R Ratio:	5.886
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG9



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4250AA1	115E4250LK1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G01
Fan Cover	128D6810AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

