



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

January 31, 2021

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

Model Number:	5KS405SAA204D12
Catalog Number:	M9779
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6400ZJ

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:	5KS405SAA204D12	Estimated Weight:	1460 Lbs
Outline Drawing:	239C6400ZJ	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEI-56128	Encl Construction:	841
Design Code:	40BD1159B	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	405T	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	95.0 %
RPM:	1785	3/4 Load Efficiency:	--
Voltage:	575	KVA Code:	G
Hertz:	60	Max KVAR:	34.0
Amps - FL:	94.0	Power Factor:	83.5
Service Factor:	1.15	Bearing - DE:	6316ZC3
Alt Service Factor:	--	Bearing - ODE:	6316ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009

DE BRG 80BC03JP3, ODE BRG 80BC03JP3

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS405SAA204D12 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 200C 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 15 - 60 HZ, CHP 60 - 90 HZ.



Additional Information:

4P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C/BOX 700 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: 40BD1159B

Marks:

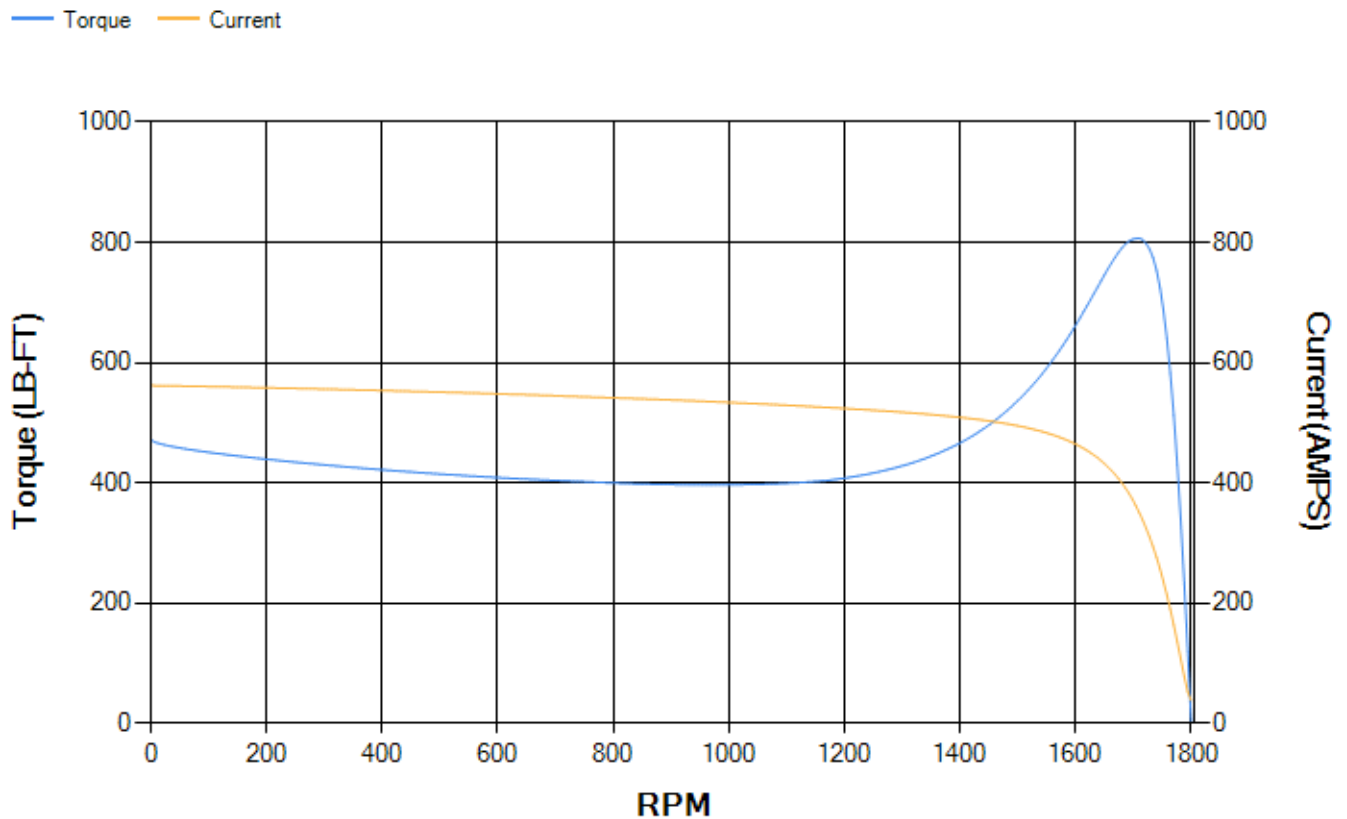
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.84	95.06	95.52	95.53	95.2	92.85	0.00
% PF	85.62	85.01	83.57	78.94	68.72	45.89	3.2
AMPS	115.26	106.56	93.8	74.46	57.22	43.94	37.92

TORQ(FL)#FT	294.39	TORQ(LR)%FL	160.53	TORQ(BD)%FL	273.45
AMPS(LR)	561.92	PF AT START	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2189 Lb-Ft Sq (92.16 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 35 seconds. Safe stall time at 100% voltage is 76 seconds cold, 43 seconds hot. Rotor inertia is 23.13 Lb-Ft Sq (0.97 Kg-meter Sq).

Open Circuit A-C:	0.673	Short Circuit D-C:	0.025
Short Circuit A-C:	0.041	X/R Ratio:	9.364
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG7



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LL1
Bearing	235A2518AC01	235A2518AC01
Slinger/Inproseal	149C4399G06	149C4399G06

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA2
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

