



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

June 25, 2020

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

Model Number:	5KS404XAA404D6
Catalog Number:	M9590
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG1
Outline Drawing:	239C6400PZ

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: 5KS404XAA404D6
Outline Drawing: 239C6400PZ
Connection Diagram: GEM2034E-FIG1
Instruction Book: GEI-56128
Design Code: 40BD4022B
Type: KS
Frame: 404T
Phases: 3
Poles: 8
Output Power: 50HP 37KW
RPM: 890
Voltage: 575
Hertz: 60
Amps - FL: 57.9
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 1390 Lbs
Time Rating: CONT
Enclosure: TEFC
Encl Construction: 841
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: B
Nominal Efficiency: 92.4 %
Guaranteed Efficiency: 91.7 %
3/4 Load Efficiency: 93.2 %
KVA Code: G
Max KVAR: 28.2
Power Factor: 70.0
Bearing - DE: 6316ZC3
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:5KS404XAA404D6 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 230C 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:

8P - T EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
700 CU IN - 3.00" NPT
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.
GROUND PAD
F1 MOUNTING



Performance Characteristics

1st Winding 1st Connection

Design: 40BD4022B

Marks:

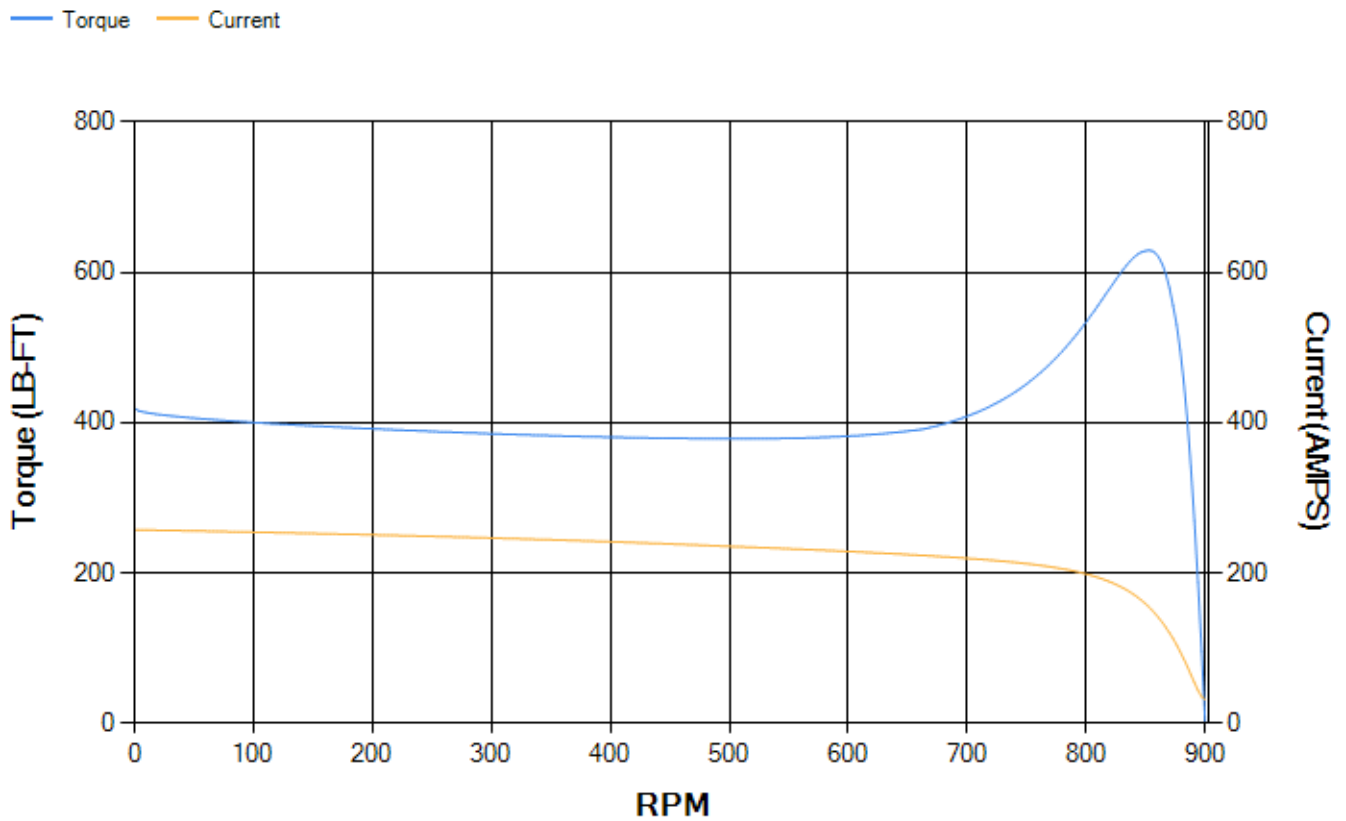
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.18	92.54	93.16	93.25	92.62	88.9	0.00
% PF	73.56	72.53	70.19	63.43	51.22	31.04	2.98
AMPS	69.02	64.14	57.22	47.47	39.46	33.91	31.49

TORQ(FL)#FT	295.29	TORQ(LR)%FL	141.96	TORQ(BD)%FL	212.6
AMPS(LR)	257.42	PF AT START	0.36		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4923 Lb-Ft Sq (207.26 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 45 seconds. Safe stall time at 100% voltage is 130 seconds cold, 69 seconds hot. Rotor inertia is 25.93 Lb-Ft Sq (1.09 Kg-meter Sq).

Open Circuit A-C:	0.352	Short Circuit D-C:	0.02
Short Circuit A-C:	0.039	X/R Ratio:	7.533
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:

Connection Diagram
GEM2034E-FIG1



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LL1
Bearing	235A2518AC01	235A2518AC01
Slinger/Inproseal	235A4575GS4	235A4575GS4

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100G02
Fan Cover	128D6832AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

