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:	**5KS405XAA2088D**
Catalog Number:	**M9356**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6400RF

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:	**5KS405XAA2088D**	**Estimated Weight:**	1460 Lbs
Outline Drawing:	239C6400RF	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	40BD1159A	**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:**	95.6 %
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	34.6
Amps - FL:	117.0	**Power Factor:**	83.5
Service Factor:	1.15	**Bearing - DE:**	NU 316
Alt Service Factor:	--	**Bearing - ODE:**	6316ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
ROLLER BEARING - FOR BELTED LOAD ONLY
DE BRG 80RU03M, ODE BRG 80BC03JP3026
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS405XAA2088D 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 215C 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
700 CU IN - 3.00" NPT
INPRO SEAL BOTH ENDS
OIL RESISTANT SLEEVING ON LEADS
.002" 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.
B5F4C4 HIGH FATIGUE STEEL AISI 4142 SHAFT MATERIAL
GROUND PAD
F1 MOUNTING

Performance Characteristics 1st Winding 1st Connection **Design: 40BD1159A**

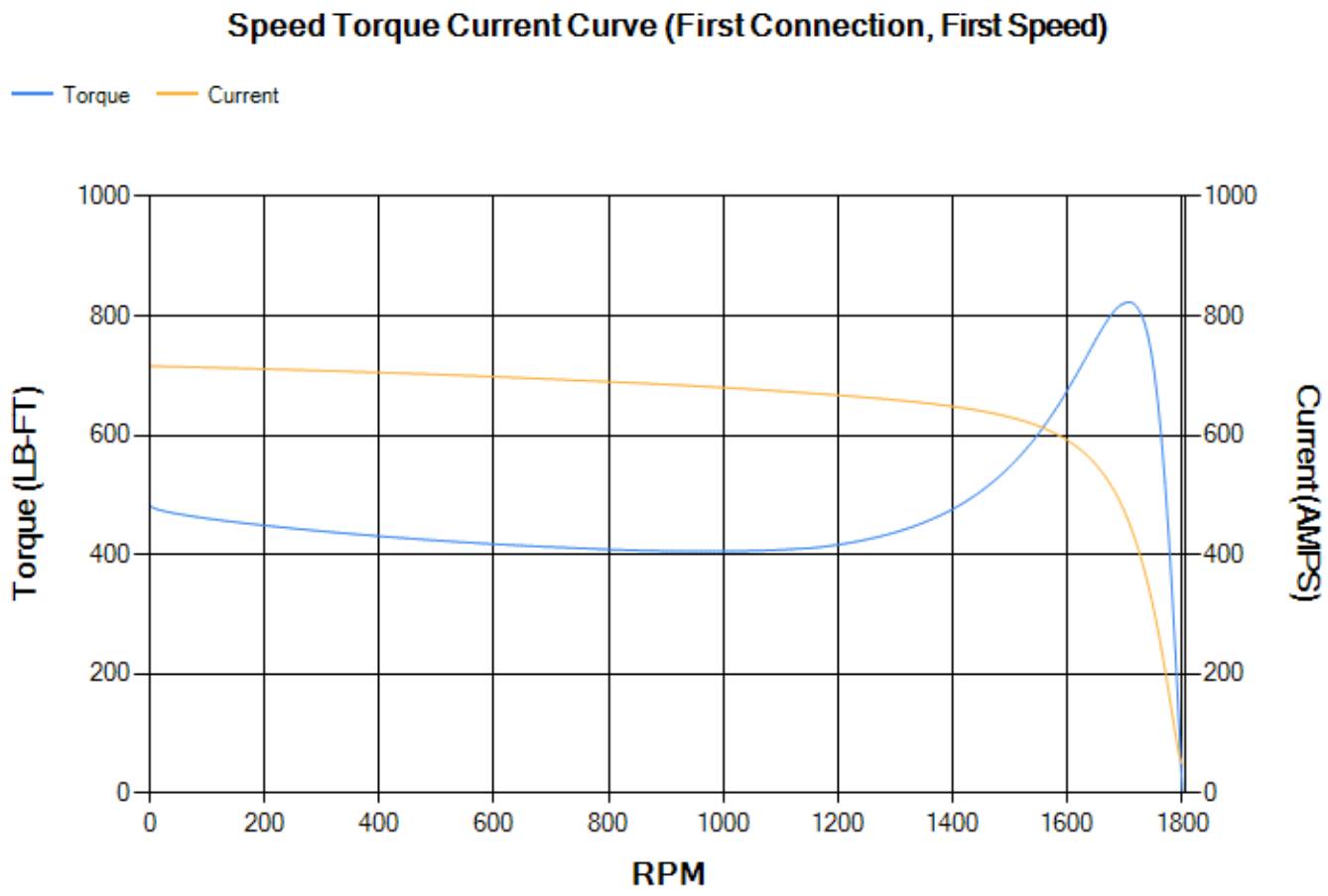
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.93	95.13	95.58	95.57	95.2	92.81	0.00
% PF	85.46	84.81	83.3	78.51	68.1	45.2	3.16
AMPS	144.2	133.4	117.56	93.55	72.19	55.77	48.37

TORQ(FL)#FT	294.32	**TORQ(LR)%FL**	164.02	**TORQ(BD)%FL**	278.95
AMPS(LR)	715.84	**PF AT START**	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2242 Lb-Ft Sq (94.39 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 75 seconds cold, 42 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:**	9.474
Stator Slots:	72	**Rotor Slots:**	58



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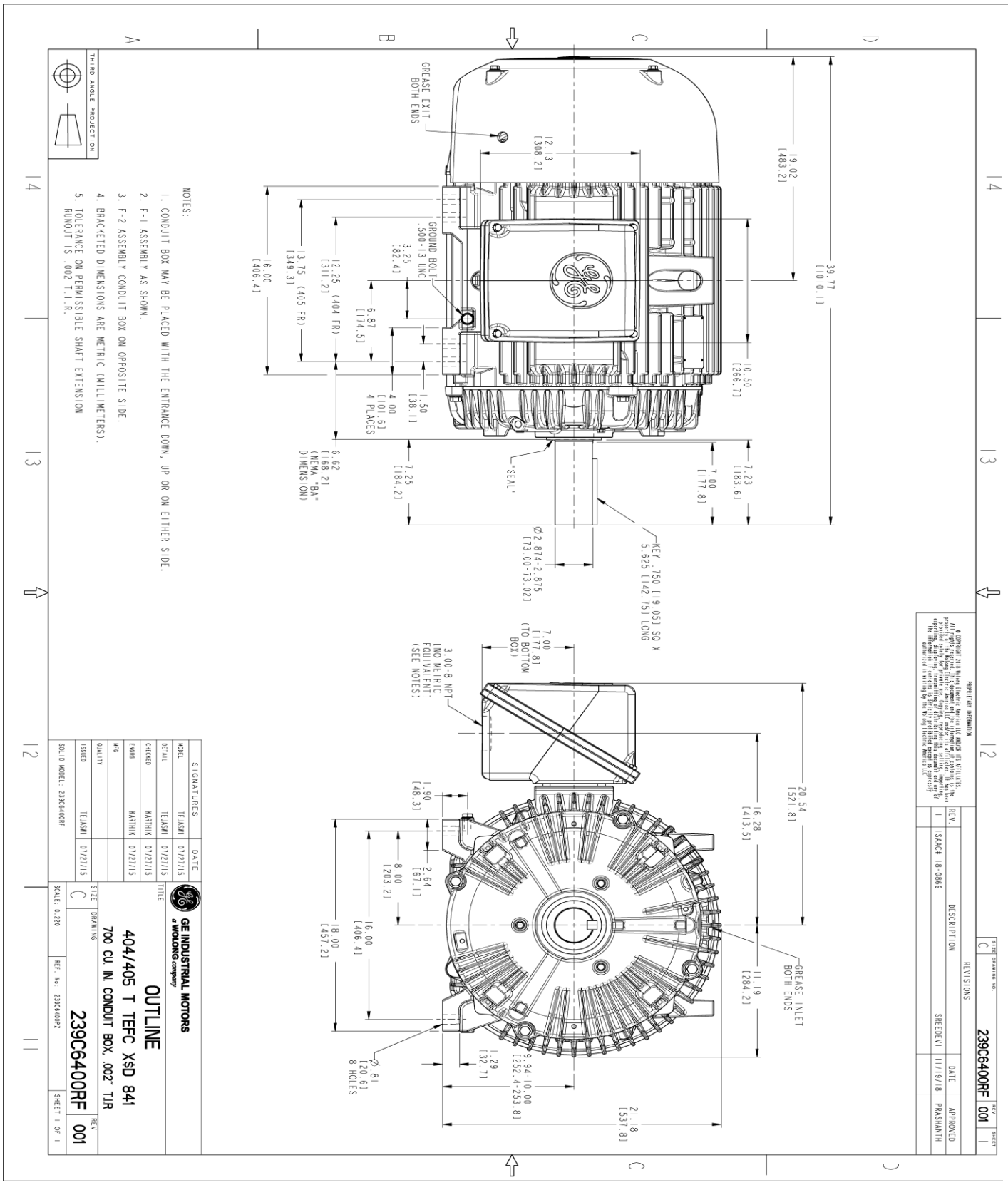
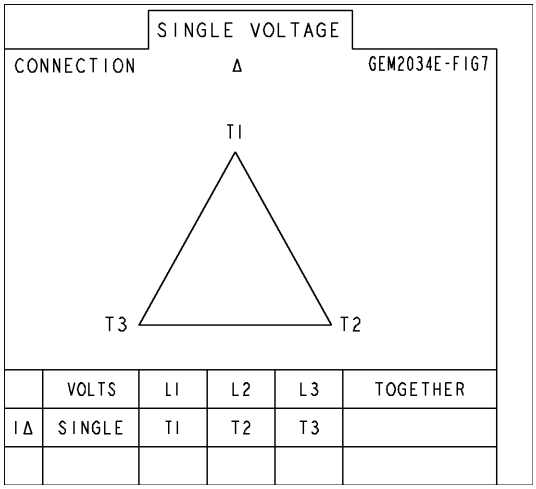


Marks:

Connection Diagram

GEM2034E-FIG7



	VOLTS	L1	L2	L3	TOGETHER
1Δ	SINGLE	T1	T2	T3	

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4304AA1	115E4304LK1
Bearing	235A2526AA01	235A2518AC01
Slinger/Inproseal	235A4575GS4	235A4575GS4

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	