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:	**5KS324XAA175D7**
Catalog Number:	**M8971**
Instruction Manual:	GEI-56128
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	239C6001FS

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:	**5KS324XAA175D7**	**Estimated Weight:**	620 Lbs
Outline Drawing:	239C6001FS	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG7	**Enclosure:**	TEFC
Instruction Book:	GEI-56128	**Encl Construction:**	841
Design Code:	32BD0110A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	324TSC	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	2	**Nominal Efficiency:**	93.0 %
Output Power:	40HP 29.6KW	**Guaranteed Efficiency:**	92.4 %
RPM:	3565	**3/4 Load Efficiency:**	92.8 %
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	15.4
Amps - FL:	48.8	**Power Factor:**	82.5
Service Factor:	1.15	**Bearing - DE:**	6312ZC3
Alt Service Factor:	--	**Bearing - ODE:**	6312ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

IEEE-STD-841-2009
DE BRG 60BC03JP30, ODE BRG 60BC03JP30
STAMP NP249A5564P051 AS BELOW:
MODEL:5KS324XAA175D7 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 260C AT 1.15SF ON SINE-WAVE PWR
OR 200 C VT OR 230 C CT OR 200 C CHP PWM CONTROL
ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB
VT 0-60 HZ, CT 8.6-60 HZ, CHP 60-75 HZ.

Additional Information:

2P - TS EXTN
PAINTED FRAME ID & SHAFT,
FAN COVER INSIDE & ODE E/S OUTSIDE
C FACE ON DE
346 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: 32BD0110A**

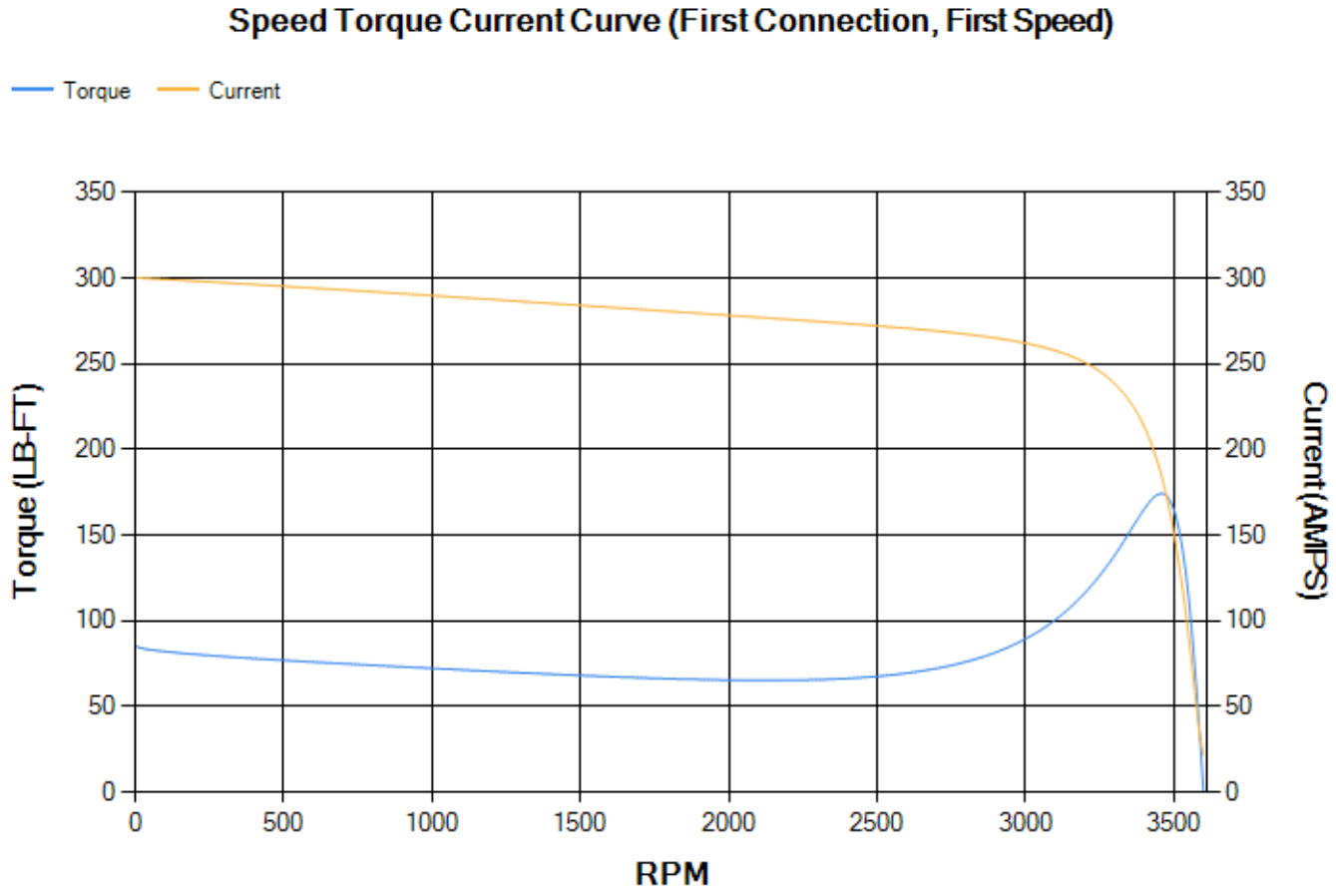
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.47	92.67	93.06	92.79	91.69	86.97	0.00
% PF	84.8	84.01	82.26	76.97	66.05	43.76	5.58
AMPS	59.68	55.3	48.84	39.31	30.91	24.59	21.61

TORQ(FL)#FT	58.88	**TORQ(LR)%FL**	145.5	**TORQ(BD)%FL**	296.11
AMPS(LR)	300.43	**PF AT START**	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 117 Lb-Ft Sq (4.93 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 23 seconds. Safe stall time at 100% voltage is 52 seconds cold, 27 seconds hot. Rotor inertia is 3.11 Lb-Ft Sq (0.13 Kg-meter Sq).

Open Circuit A-C:	0.598	**Short Circuit D-C:**	0.017
Short Circuit A-C:	0.041	**X/R Ratio:**	6.428
Stator Slots:	48	**Rotor Slots:**	38



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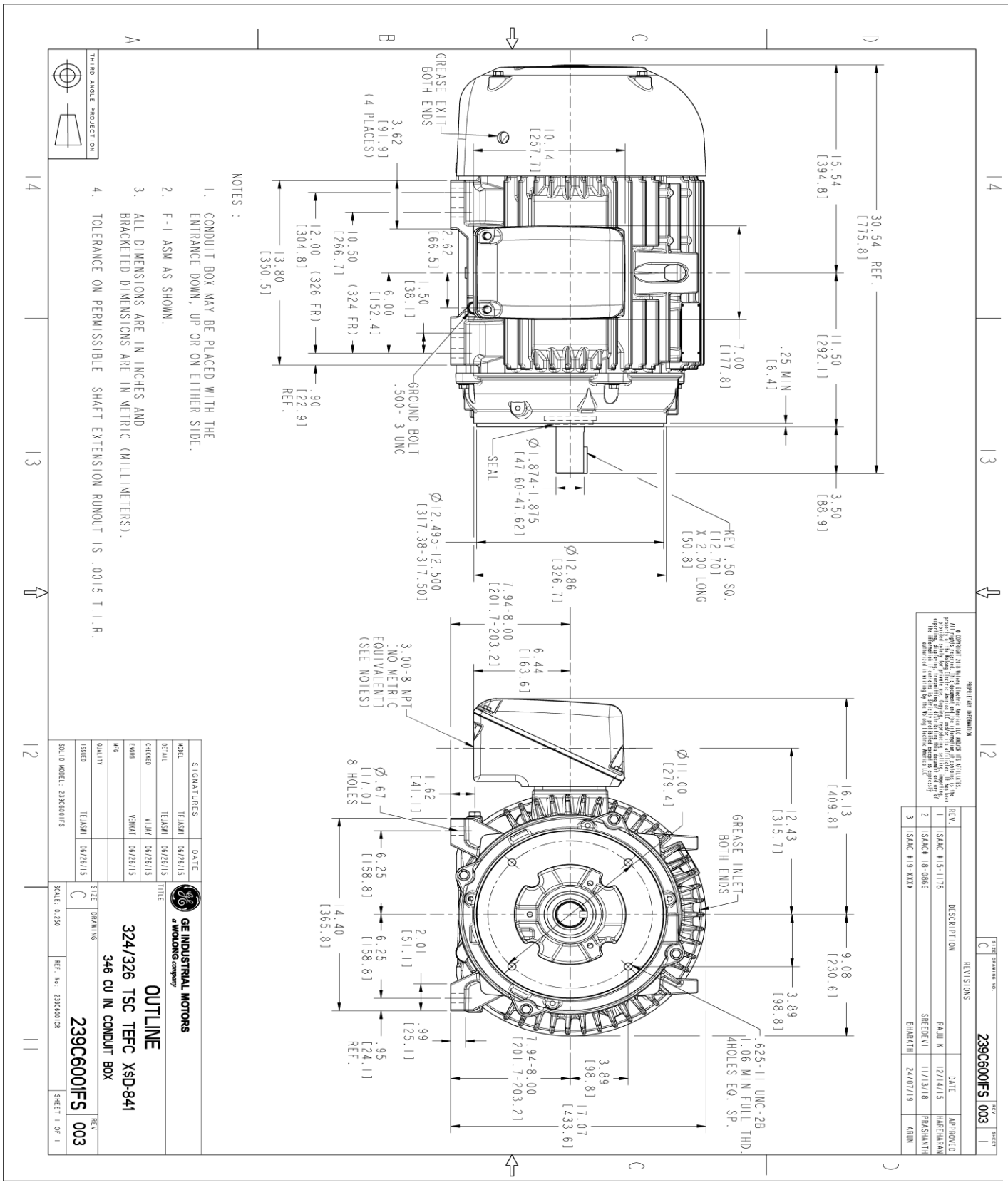

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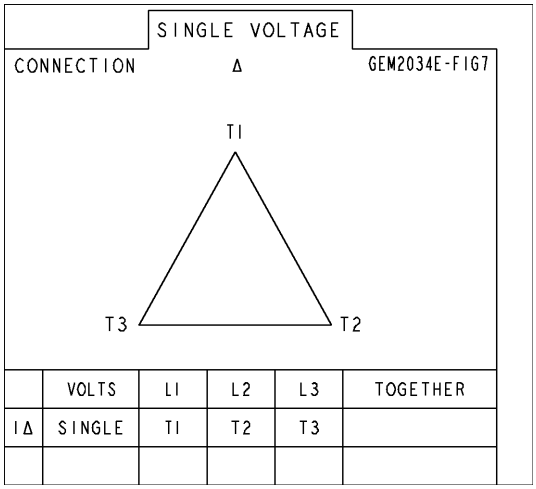
Connection Diagram

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	115E4203AA1	115E4200LA1
Bearing	235A2509AS01	235A2509AS01
Slinger/Inproseal	235A4575GS2	235A4575GS2

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	128D6800AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	