



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
Outline Drawing: 239C6001FS
Connection Diagram: GEM2034E-FIG7
Instruction Book: GEI-56128
Design Code: 32BD0110A
Type: KS
Frame: 324TSC
Phases: 3
Poles: 2
Output Power: 40HP 29.6KW
RPM: 3565
Voltage: 460
Hertz: 60
Amps - FL: 48.8
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 620 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: 93.0 %
Guaranteed Efficiency: 92.4 %
3/4 Load Efficiency: 92.8 %
KVA Code: G
Max KVAR: 15.4
Power Factor: 82.5
Bearing - DE: 6312ZC3
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:

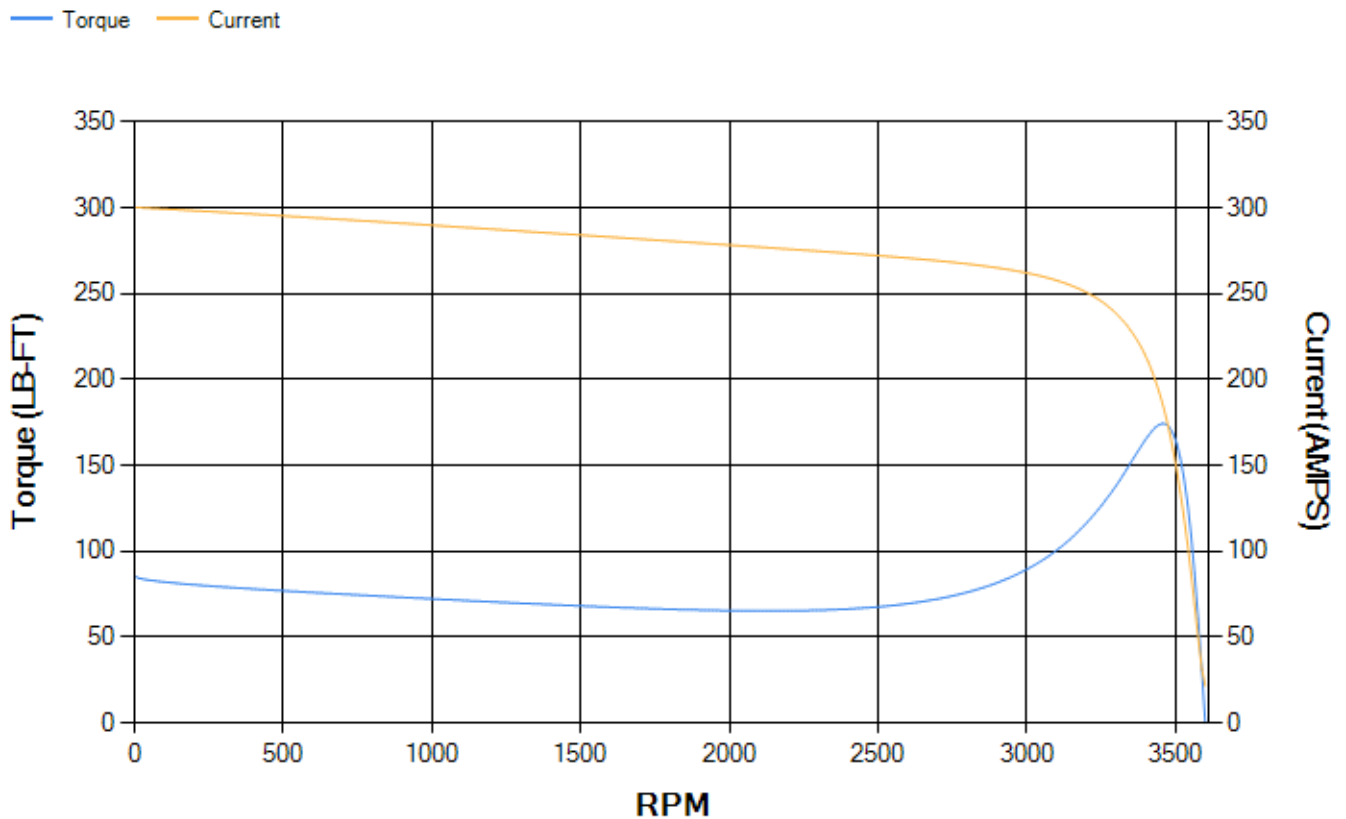
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.47	92.67	93.06	92.79	91.69	86.97	0.00
% PF	84.8	84.01	82.26	76.97	66.05	43.76	5.58
AMPS	59.68	55.3	48.84	39.31	30.91	24.59	21.61

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

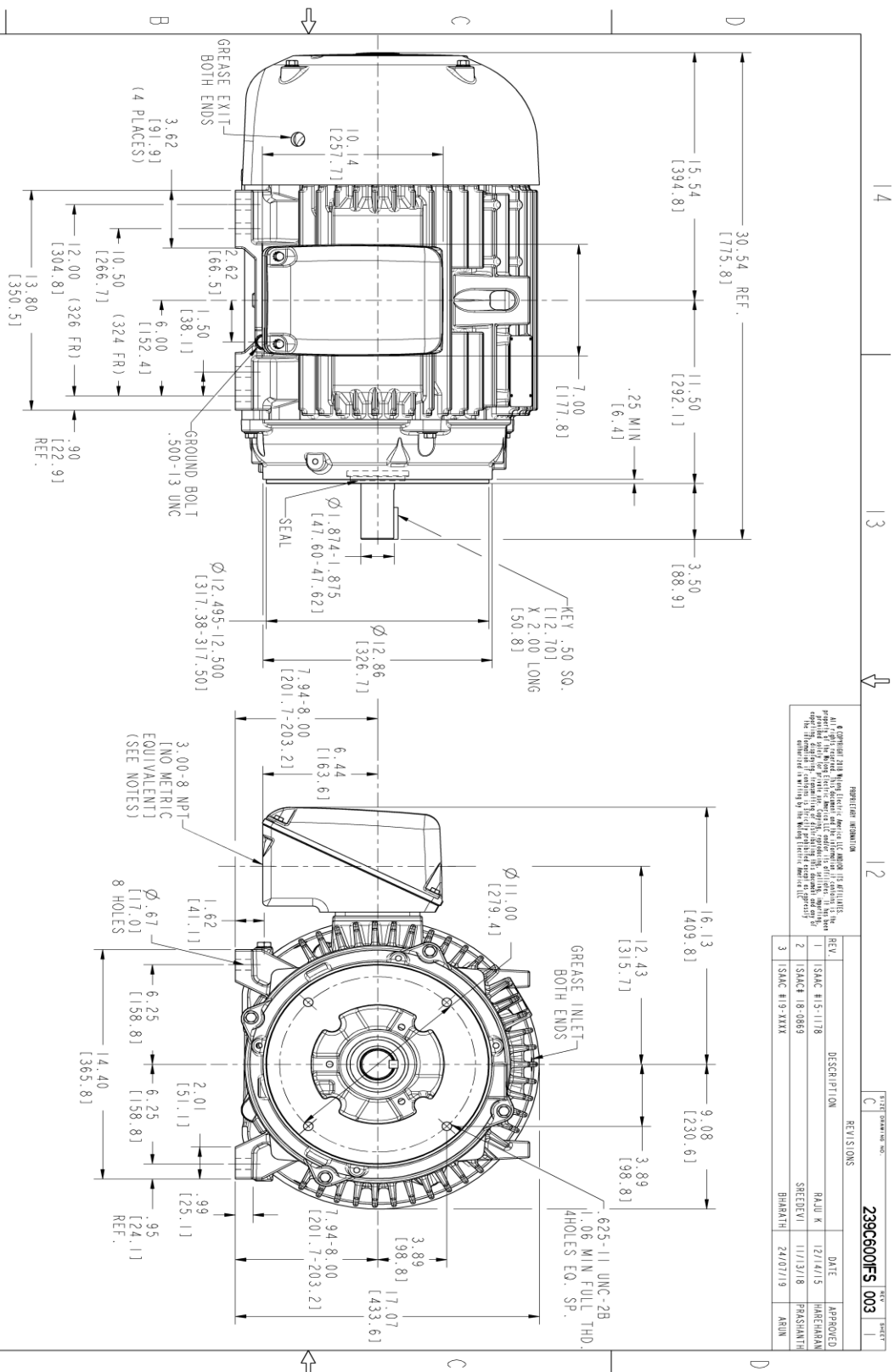
This motor is capable of two cold or one hot start with a maximum connected load inertia of 117 Lb-Ft Sq (4.93 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 23 seconds. Safe stall time at 100% 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

Speed Torque Current Curve (First Connection, First Speed)



Marks:



NOTES :

1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
2. F-I ASM AS SHOWN.
3. ALL DIMENSIONS ARE IN INCHES AND BRACKETED DIMENSIONS ARE IN METRIC (MILLIMETERS).
4. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.I.R.

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REV.	DESCRIPTION	DATE	APPROVED
1	ISAC #15-1178	12/14/15	HARSHIRAM
2	ISAC# 18-0869	11/31/18	PRASHANTH
3	ISAC #19-2433	24/07/19	ABIN

SIGNATURES		DATE	
MODEL	TEJASNI	06/28/15	
DESIGNED	TEJASNI	06/28/15	
CHECKED	VILAY	06/28/15	
DATE	TEJASNI	06/28/15	
ISSUED	TEJASNI	06/28/15	

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OUTLINE

324/326 TSC TEFC XSP-841

346 CU IN. CONDUIT BOX

239C600IFS

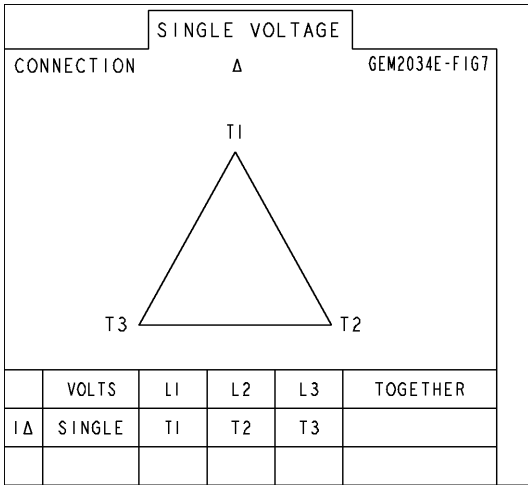
SCALE: 0.250 REF. No: 239C600ICR

REV. 003 SHEET 1 OF 1



Marks:

Connection Diagram
GEM2034E-FIG7



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	

