

# Product Information Packet

November 8, 2016

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

<b>Model Number:</b>	<b>5KS324XAA308D8</b>
<b>Catalog Number:</b>	<b>M9444</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6000RJ

<b>Accessory Connection Diagrams</b>			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	None
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS324XAA308D8</b>	<b>Estimated Weight:</b>	660 Lbs
<b>Outline Drawing:</b>	239C6000RJ	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG7	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-56128	<b>Encl Construction:</b>	841
<b>Design Code:</b>	32BD3099A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	324T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	93.0 %
<b>Output Power:</b>	25HP 18.5KW	<b>Guaranteed Efficiency:</b>	92.4
<b>RPM:</b>	1180	<b>3/4 Load Efficiency:</b>	93.4
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	10.3
<b>Amps - FL:</b>	32.1	<b>Power Factor:</b>	78.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6312ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	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:5KS324XAA308D8 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 200C AT 1.15SF ON SINE-WAVE PWR  
 OR 200C VT OR 200C CT OR 200C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0-60 HZ, CT 3-60 HZ, CHP 60-90 HZ.

**Additional Information:**

6P - T EXTN  
 PAINTED FRAME ID & SHAFT,  
 FAN COVER INSIDE & ODE E/S OUTSIDE  
 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: 32BD3099A**

**Marks:**

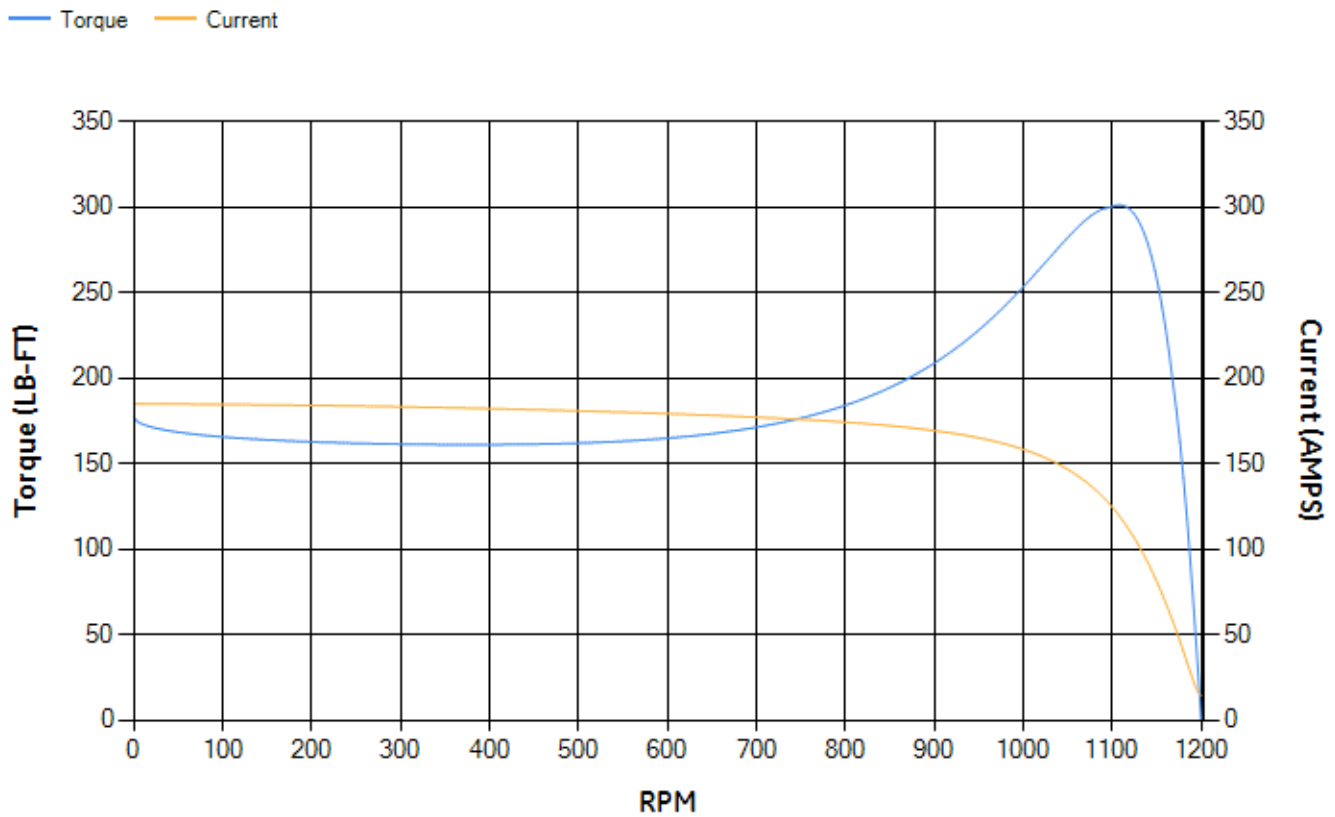
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.2	92.56	93.21	93.38	92.92	89.56	0.00
% PF	81.01	80.31	78.62	73.27	62.24	40.32	4
AMPS	39.16	36.2	31.91	25.65	20.23	16.2	14.31

<b>TORQ(FL)#FT</b>	111.19	<b>TORQ(LR)%FL</b>	159.54	<b>TORQ(BD)%FL</b>	268.47
<b>AMPS(LR)</b>	184.74	<b>PF AT START</b>	0.33		

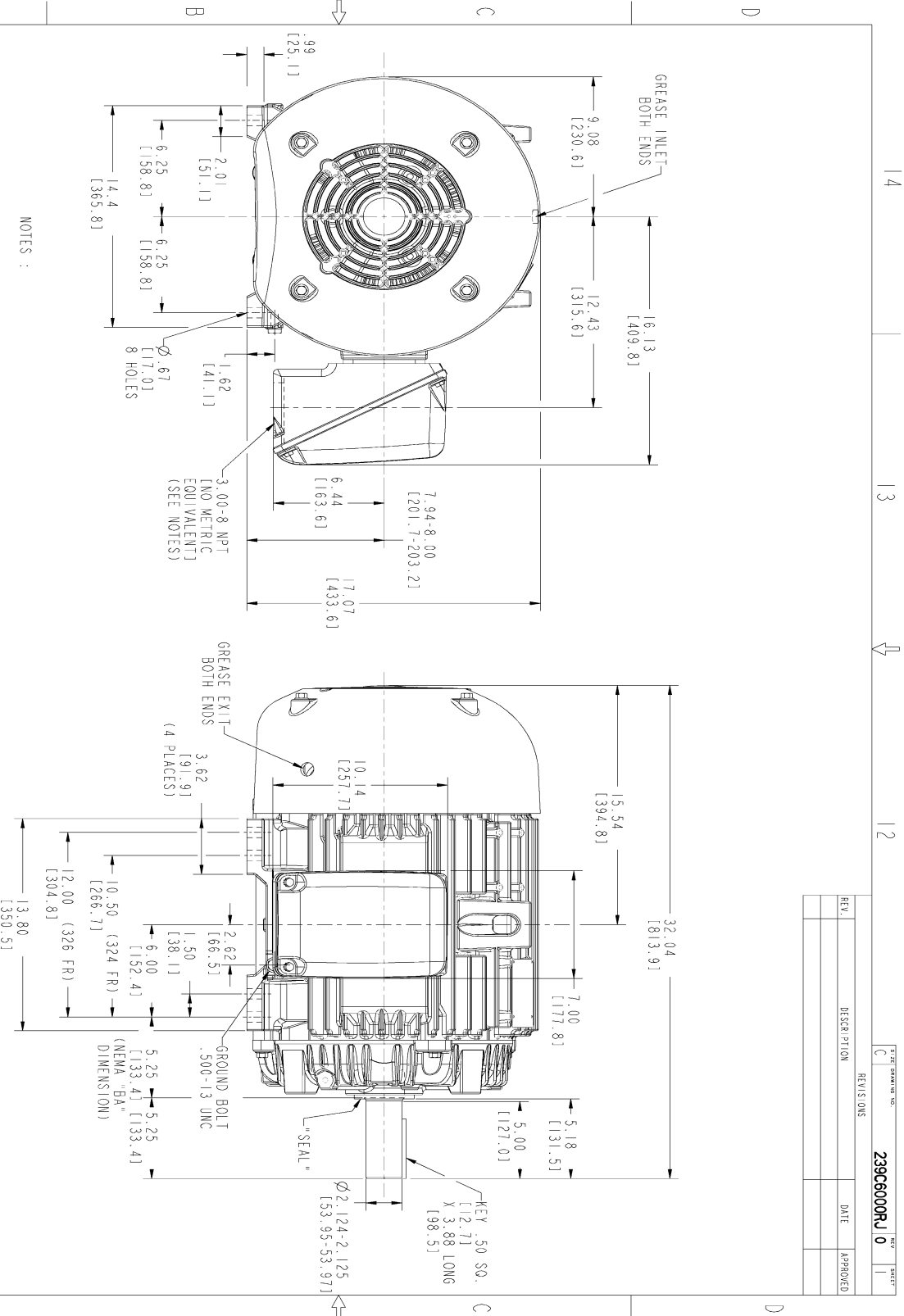
This motor is capable of two cold or one hot start with a maximum connected load inertia of 2445 Lb-Ft Sq (102.93 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 62 seconds. Safe stall time at 100% voltage is 116 seconds cold, 75 seconds hot. Rotor inertia is 8.96 Lb-Ft Sq (0.38 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.341	<b>Short Circuit D-C:</b>	0.018
<b>Short Circuit A-C:</b>	0.022	<b>X/R Ratio:</b>	6.623
<b>Stator Slots:</b>	54	<b>Rotor Slots:</b>	40

**Speed Torque Current Curve (First Connection, First Speed)**

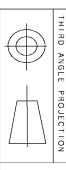


Marks:



NOTES :

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



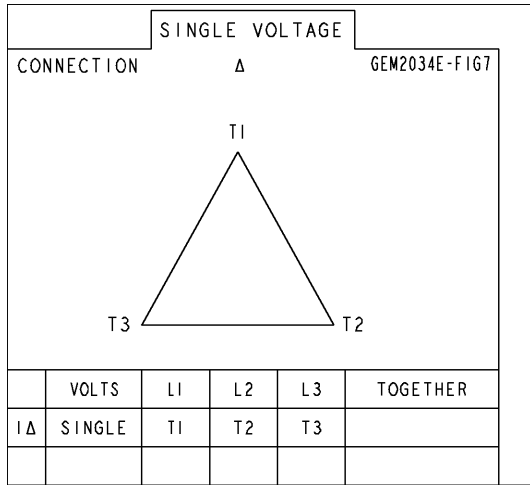
REV.	DESCRIPTION	DATE	APPROVED

SIGNATURES		DATE	
MODEL	TEJASNI	06/19/15	
SCALE	TEJASNI	06/19/15	
TITLE			
<b>OUTLINE</b>			
324/326 T TFC XSD 94I			
346 CU. IN. CONDUIT BOX			
DESIGN		DATE	
DESIGN	VINAY	06/19/15	
DATE	TEJASNI	06/19/15	
SCALE: 0.250		REF. NO.: 239C6000RJ	
SHEET 1 OF 1		REV 0	

SHEET 1 OF 1  
239C6000RJ 0

Marks:

**Connection Diagram**  
**GEM2034E-FIG7**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4200AA1	115E4200LA1
Bearing	235A2609AA01	235A2609AA01
Slinger/Inproseal	235A4575GS2	235A4575GS2

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7000G01
Fan Cover	128D6800AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	