



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

January 18, 2021

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

<b>Model Number:</b>	<b>5KS364SAA204D12</b>
<b>Catalog Number:</b>	<b>M9776</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6200GM

## Accessory Connection Diagrams

<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>5KS364SAA204D12</b>	<b>Estimated Weight:</b>	970 Lbs
<b>Outline Drawing:</b>	239C6200GM	<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>	36BD1188B	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	364T	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	95.0 %
<b>Output Power:</b>	60HP 44.4KW	<b>Guaranteed Efficiency:</b>	94.5 %
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	20.5
<b>Amps - FL:</b>	57.3	<b>Power Factor:</b>	82.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6314ZC3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	6314ZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

IEEE-STD-841-2009

DE BRG 70BC03JP30, ODE BRG 70BC03JP30

STAMP NP249A5564P051 AS BELOW:

MODEL:5KS364SAA204D12 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 -40C <= AMB <= 40C, 1.0 SF ON SINE-WAVE PWR

SURF TEMP 260C 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 6-60 HZ, CHP 60-90 HZ.



**Additional Information:**

4P - T EXTN  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
C/BOX 346 CU IN - 3.00" NPT  
OIL RESISTANT SLEEVING ON LEADS  
.0015" TIR SHAFT RUNOUT  
ROUTINE TEST REPORT AND 5 POINT VIBRATION TEST  
REPORT INCLUDED IN C/B  
GROUND PAD  
F1 MOUNTING



**Performance Characteristics**

1st Winding 1st Connection

**Design: 36BD1188B**

**Marks:**

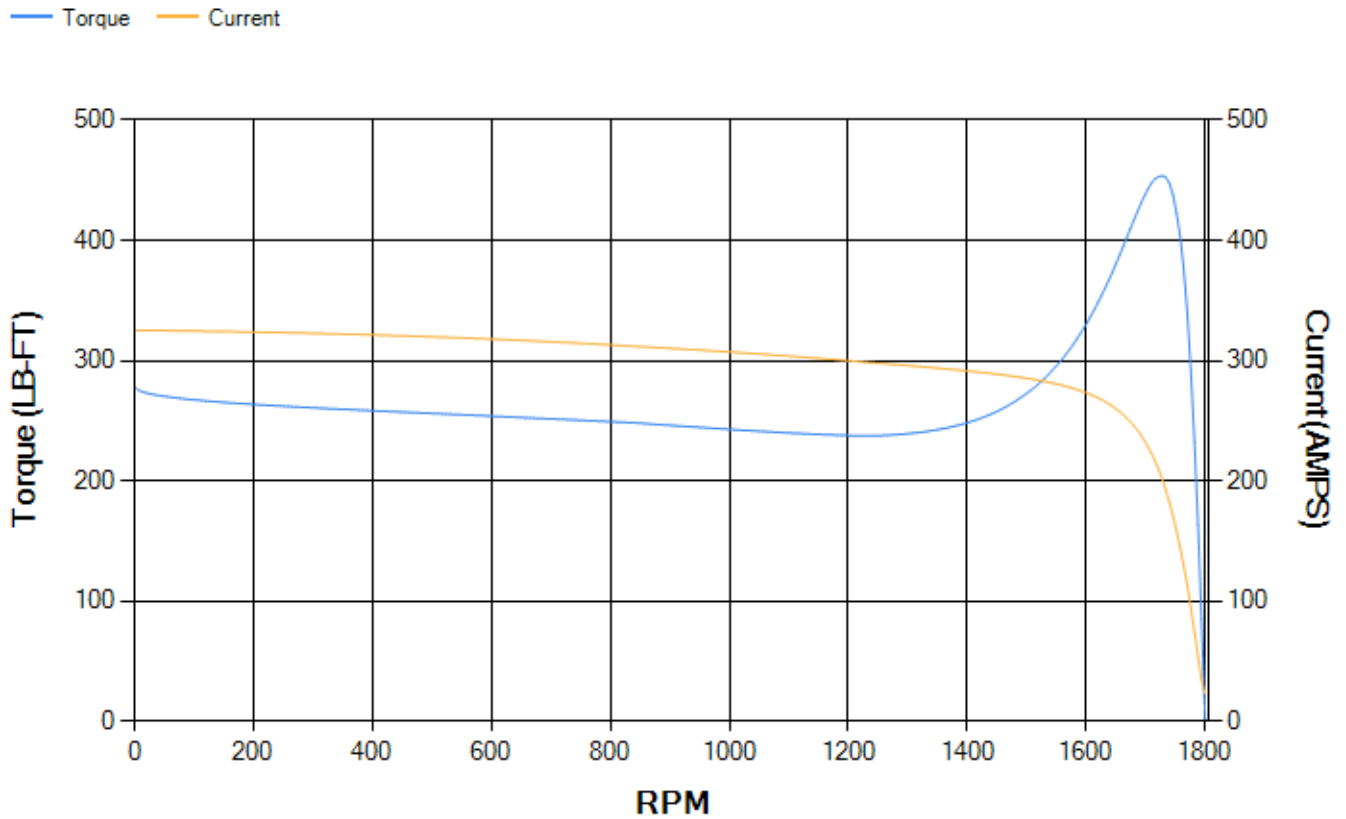
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.25	94.51	95.03	95.13	94.83	92.4	0.00
% PF	84.5	83.98	82.66	78.19	68.15	45.58	3.21
AMPS	70.51	65.09	57.06	45.3	34.76	26.67	22.88

<b>TORQ(FL)#FT</b>	176.86	<b>TORQ(LR)%FL</b>	157.38	<b>TORQ(BD)%FL</b>	255.9
<b>AMPS(LR)</b>	325.13	<b>PF AT START</b>	0.31		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1156 Lb-Ft Sq (48.67 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 32 seconds. Safe stall time at 100% voltage is 76 seconds cold, 39 seconds hot. Rotor inertia is 12.1 Lb-Ft Sq (0.51 Kg-meter Sq).

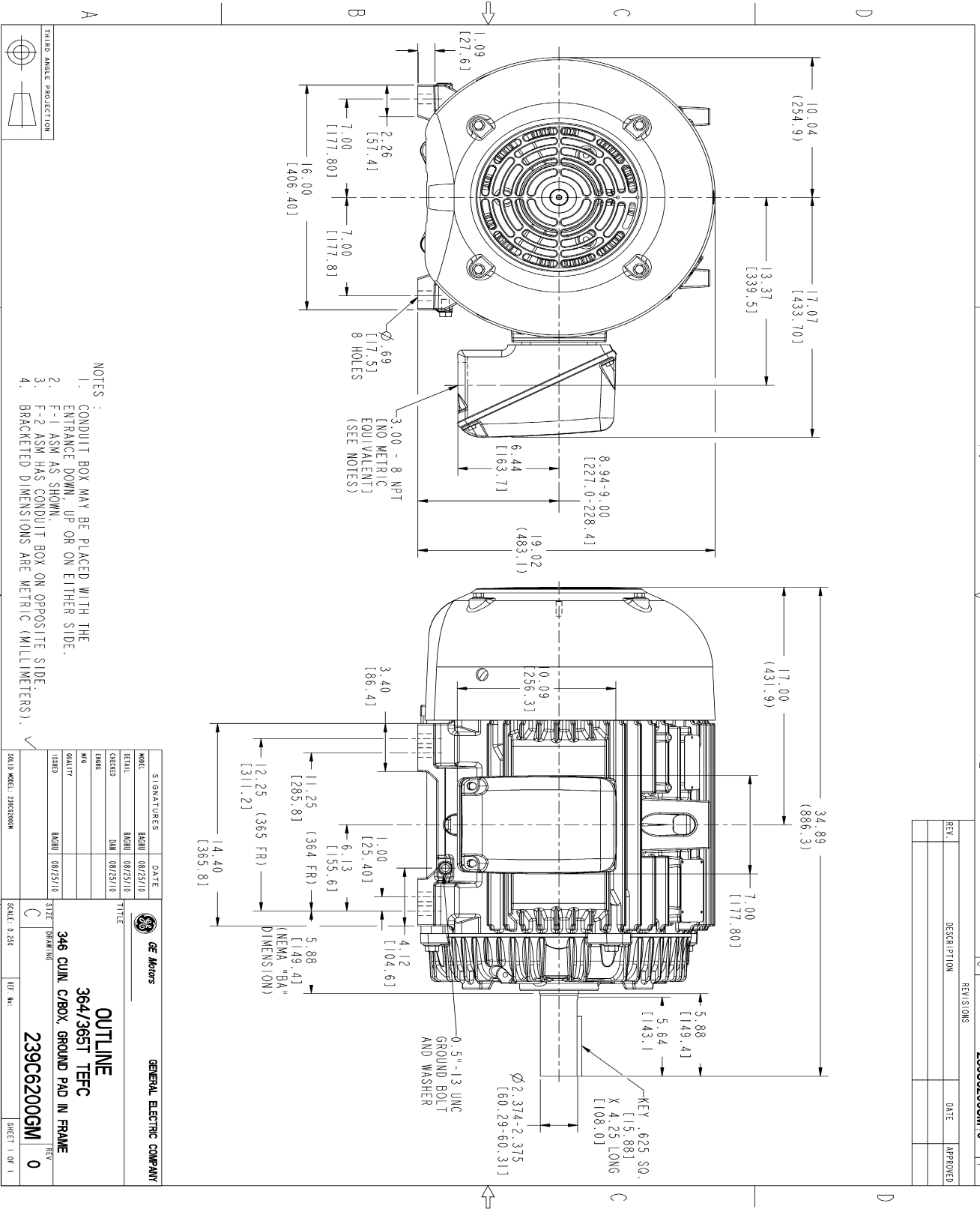
<b>Open Circuit A-C:</b>	0.601	<b>Short Circuit D-C:</b>	0.024
<b>Short Circuit A-C:</b>	0.035	<b>X/R Ratio:</b>	8.947
<b>Stator Slots:</b>	60	<b>Rotor Slots:</b>	50

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



NAME:320002276 OBJECT:239C6200GM DATE:26-Aug-10 13:08:26

Marks:



- NOTES :
1. CONDUIT BOX MAY BE PLACED WITH THE ENTRANCE DOWN, UP OR ON EITHER SIDE.
  2. F-1 ASM AS SHOWN.
  3. F-2 ASM HAS CONDUIT BOX ON OPPOSITE SIDE.
  4. BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).

SIGNATURES	DATE	GE Motors	GENERAL ELECTRIC COMPANY
MOELL	RICHIE 08/25/10		
REHALL	RICHIE 08/25/10		
CHERED	JAN 08/25/10		
ENG			
QUALITY			
ISSUED	RICHIE 08/25/10		
TITLE		OUTLINE	
346 CUIN. C/BOX, GROUND PAD IN FRAME		364/365T TEFC	
SITE DRAWING		239C6200GM	
SCALE: 0.250	SHEET NO.:	REV: 0	SHEET 1 OF 1

REV.	DESCRIPTION	DATE	APPROVED

STANDARD NO. 239C6200GM 0 REV. 1 SHEET 1

**Marks:**

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4250AA1	115E4250LK1
Bearing	235A2516AC01	235A2516AC01
Slinger/Inproseal	149C4399G05	149C4399G05

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6810AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

