



**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>5KS364SAA404D4</b>
<b>Catalog Number:</b>	<b>M9766</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:

**MODEL NUMBER:** 5KS364SAA404D4  
**Outline Drawing:** 239C6200GM  
**Connection Diagram:** GEM2034E-FIG7  
**Instruction Book:** GEI-56128  
**Design Code:** 36BD4024B  
**Type:** KS  
**Frame:** 364T  
**Phases:** 3  
**Poles:** 8  
**Output Power:** 30HP 22.2KW  
**RPM:** 885  
**Voltage:** 575  
**Hertz:** 60  
**Amps - FL:** 34.7  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 960 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:** 91.7 %  
**Guaranteed Efficiency:** 91.0 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 17.4  
**Power Factor:** 70.5  
**Bearing - DE:** 6314ZC3  
**Bearing - ODE:** 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:5KS364SAA404D4 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:**

8P - 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: 36BD4024B**

**Marks:**

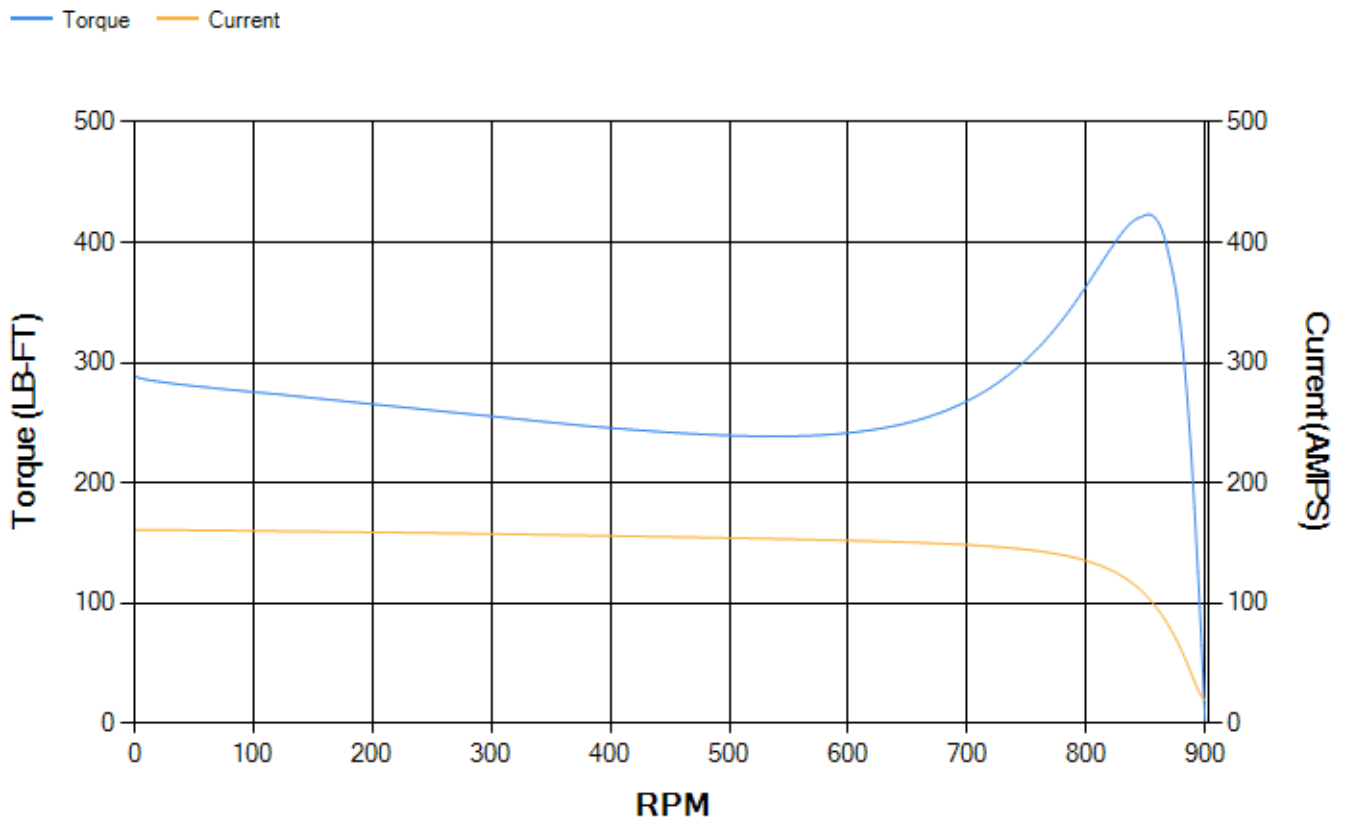
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.21	91.56	92.17	92.22	91.42	87.06	0.00
% PF	74.68	73.4	70.72	63.45	50.9	30.8	3.29
AMPS	41.22	38.43	34.31	28.79	24.14	20.94	19.36

<b>TORQ(FL)#FT</b>	177.51	<b>TORQ(LR)%FL</b>	162.89	<b>TORQ(BD)%FL</b>	237.04
<b>AMPS(LR)</b>	160.92	<b>PF AT START</b>	0.37		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3197 Lb-Ft Sq (134.59 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 43 seconds. Safe stall time at 100% voltage is 124 seconds cold, 66 seconds hot. Rotor inertia is 17.08 Lb-Ft Sq (0.72 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.294	<b>Short Circuit D-C:</b>	0.016
<b>Short Circuit A-C:</b>	0.029	<b>X/R Ratio:</b>	5.847
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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





**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	159C7100G01
Fan Cover	128D6810AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

