



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

# Product Technical Information

November 27, 2020

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

<b>Model Number:</b>	<b>5KS365XAA1002D1</b>
<b>Catalog Number:</b>	<b>M9531</b>
<b>Instruction Manual:</b>	GEI-56128
<b>Connection Diagram:</b>	GEM2034E-FIG7
<b>Outline Drawing:</b>	239C6205DK

## 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:** 5KS365XAA1002D1  
**Outline Drawing:** 239C6205DK  
**Connection Diagram:** GEM2034E-FIG7  
**Instruction Book:** GEI-56128  
**Design Code:** 36BD0118A  
**Type:** KS  
**Frame:** 365TSC  
**Phases:** 3  
**Poles:** 2  
**Output Power:** 75HP 55.5KW  
**RPM:** 3575  
**Voltage:** 460  
**Hertz:** 60  
**Amps - FL:** 85.9  
**Service Factor:** 1.15  
**Alt Service Factor:** --

**Estimated Weight:** 1030 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:** 94.5 %  
**Guaranteed Efficiency:** 94.1 %  
**3/4 Load Efficiency:** --  
**KVA Code:** G  
**Max KVAR:** 20.9  
**Power Factor:** 86.5  
**Bearing - DE:** 6314ZZC3  
**Bearing - ODE:** 6314ZZC3

**Enclosure is Totally Enclosed Fan-Cooled**

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**Stamped Nameplate Notes:**

IEEE-STD-841-2009  
 DE BRG 70BC03JPP3, ODE BRG 70BC03JPP3  
 STAMP NP249A5564P051 AS BELOW:  
 MODEL:5KS365XAA1002D1 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 215 C AT 1.15SF ON SINE-WAVE PWR  
 OR 200 C VT OR 230 C CT OR --- C CHP PWM CONTROL  
 ALTERNATE RATING FOR PWM CONTROL 1.0SF 40C AMB  
 VT 0 - 60 HZ, CT 15 - 60 HZ, CHP -- HZ.



**Additional Information:**

2P - TS EXTN  
PAINTED FRAME ID & SHAFT,  
FAN COVER INSIDE & ODE E/S OUTSIDE  
C FACE ON DE  
C/BOX 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.  
ROUND FRAME  
GROUND PAD  
VERTICAL MOUNT SHAFT DOWN WITH DRIP COVER



**Performance Characteristics**

1st Winding 1st Connection

**Design: 36BD0118A**

**Marks:**

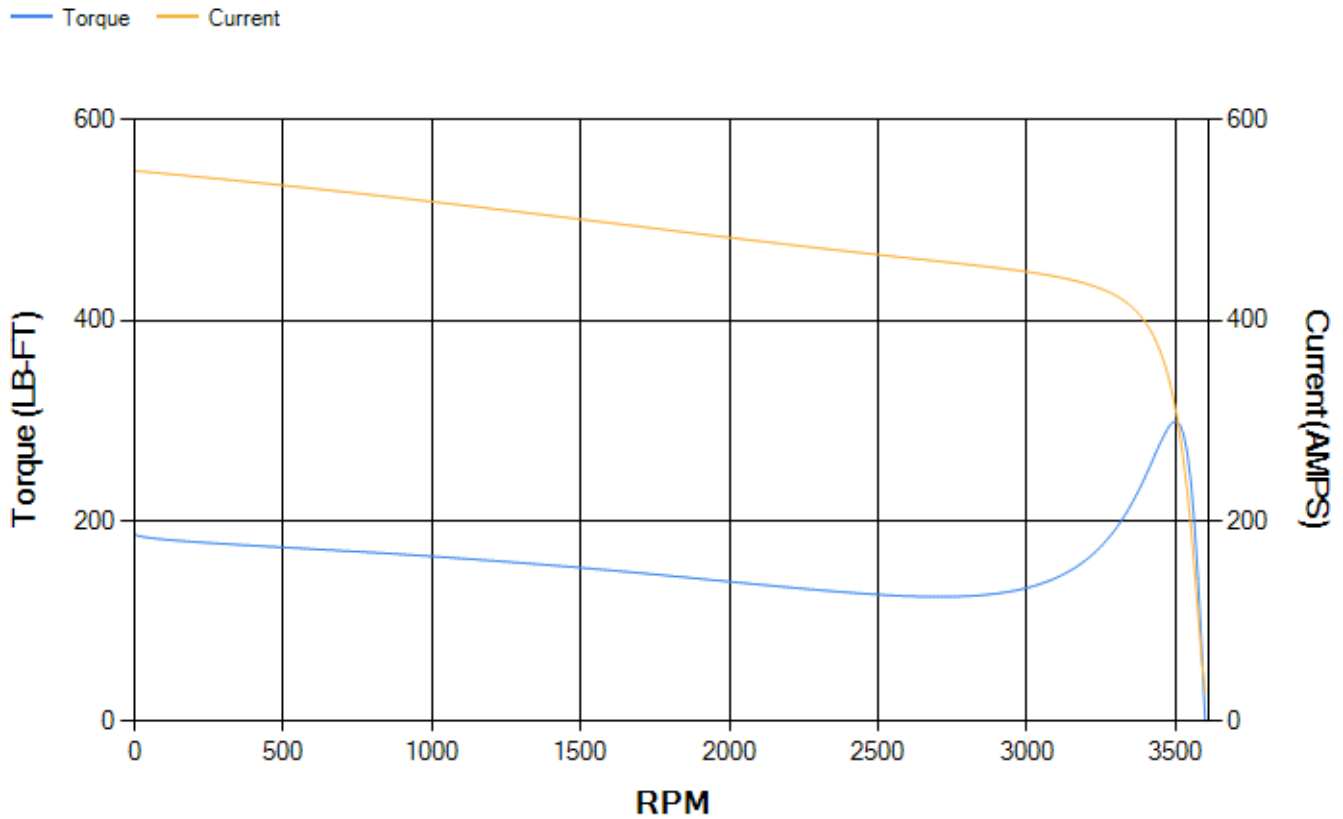
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.47	94.68	95.12	95.06	94.56	91.72	0.00
% PF	87.86	87.55	86.65	83.31	75.02	53.41	4.51
AMPS	105.71	97.39	85.02	66.47	49.48	35.82	29.15

<b>TORQ(FL)#FT</b>	110.18	<b>TORQ(LR)%FL</b>	169.64	<b>TORQ(BD)%FL</b>	271.45
<b>AMPS(LR)</b>	549.53	<b>PF AT START</b>	0.33		

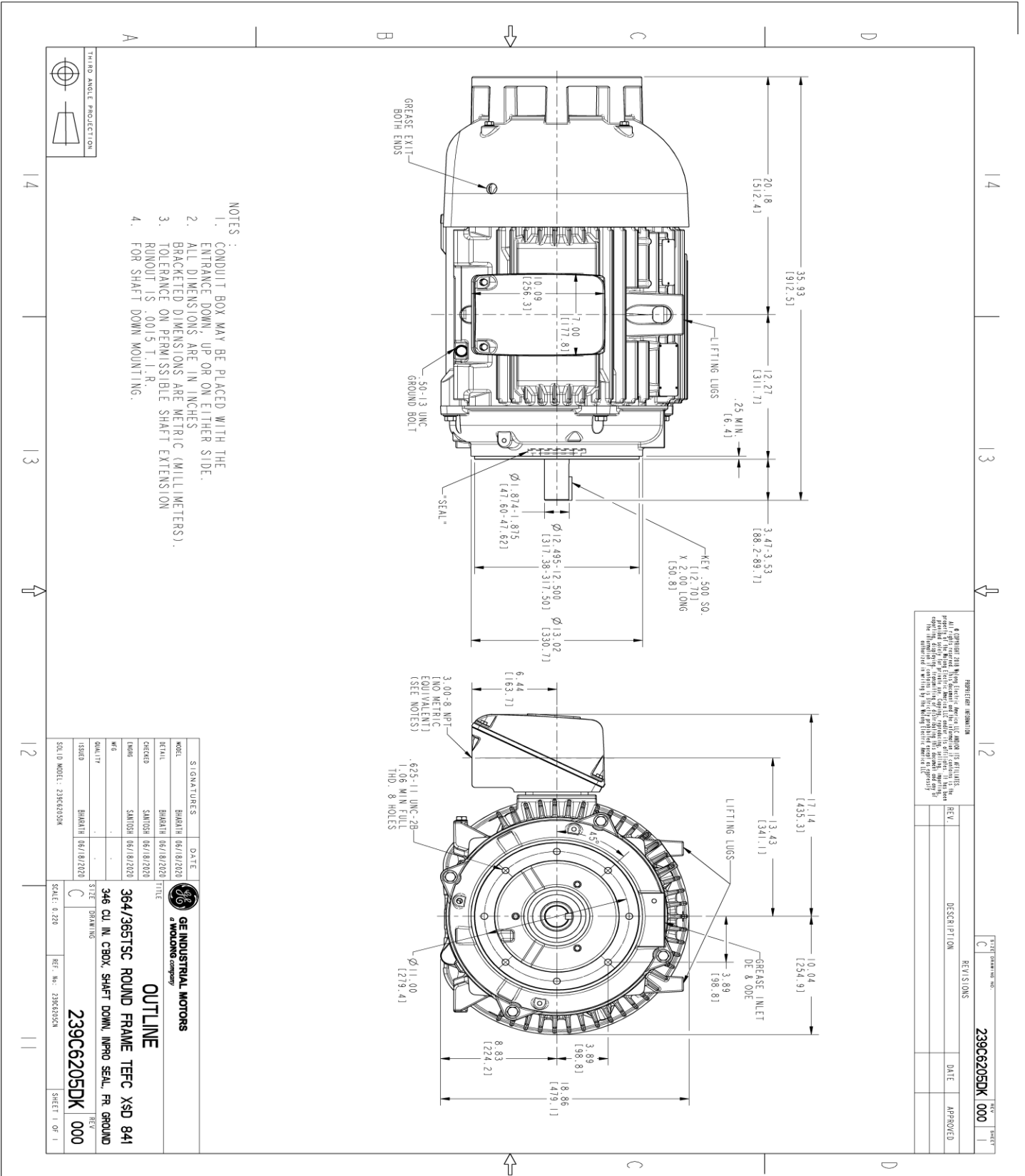
This motor is capable of two cold or one hot start with a maximum connected load inertia of 168 Lb-Ft Sq (7.07 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 17 seconds. Safe stall time at 100% voltage is 40 seconds cold, 20 seconds hot. Rotor inertia is 8.98 Lb-Ft Sq (0.38 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.034	<b>Short Circuit D-C:</b>	0.022
<b>Short Circuit A-C:</b>	0.05	<b>X/R Ratio:</b>	8.401
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	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. ALL DIMENSIONS ARE IN INCHES BRACKETED DIMENSIONS ARE METRIC (MILLIMETERS).
  3. TOLERANCE ON PERMISSIBLE SHAFT EXTENSION RUNOUT IS .0015 T.I.R.
  4. FOR SHAFT DOWN MOUNTING.

PROHIBITION INFORMATION

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REV.	DESCRIPTION	DATE	APPROVED

SHEET NUMBER NO. **239C6205DK 000**

REV. 1



SIGNATURES	DATE	TITLE
MODEL: BHARATH	06/18/2020	<p><b>GE INDUSTRIAL MOTORS</b> a WOLONG company</p> <p><b>OUTLINE</b></p> <p><b>364/365TSC ROUND FRAME TEFC XSD 841</b> <b>346 CU IN. CBOX SHAFT DOWN, INPRO SEAL, FR GROUND</b></p> <p><b>239C6205DK 000</b></p>
REVIEW: BHARATH	06/18/2020	
CHECKED: SANTOSH	06/18/2020	
DRAWN: SANTOSH	06/18/2020	
DATE: BHARATH	06/18/2020	REV.
ISSUED: BHARATH	06/18/2020	SCALE: 0.250
SHEET: 0.250	REF. NO: 239C6205DK	SHEET 1 OF 1

**Marks:**

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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E4253AG1	115E4250LW1
Bearing	235A2516AF01	235A2516AF01
Slinger/Inproseal	235A4575GS3	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C6700G02
Fan Cover	128D6811AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

