



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

# Product Technical Information

February 18, 2023

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

<b>Model Number:</b>	<b>5KS447DAJ7038</b>
<b>Catalog Number:</b>	<b>V4451</b>
<b>Instruction Manual:</b>	GEI-M1045
<b>Connection Diagram:</b>	GEM2034E-FIG19
<b>Outline Drawing:</b>	148CB49VMJKCCAA0001

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

## Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

<b>MODEL NUMBER:</b>	<b>5KS447DAJ7038</b>	<b>Estimated Weight:</b>	3050 Lbs
<b>Outline Drawing:</b>	148CB49VMJKCCAA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG19	<b>Enclosure:</b>	WPI
<b>Instruction Book:</b>	GEI-M1045	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	49BD3207A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L447TP20	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	6	<b>Nominal Efficiency:</b>	95.4 %
<b>Output Power:</b>	200HP 148KW	<b>Guaranteed Efficiency:</b>	94.5 %
<b>RPM:</b>	1190	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	50.9
<b>Amps - FL:</b>	229.0	<b>Power Factor:</b>	86.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6217C3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	235A2536AB01

Enclosure is Weather Protected One

---

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP  
 HTR LDS HE1-HE2 115V 145W  
 ROT CCW FACING ODE LEAD/PH SEQ 1-2-3/1-2-3  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 7.5-60 HZ  
 UPPER BRG LUBE OIL: 10.2 QTS  
 AMB 0 TO 40 DEG C : ISO 32(MINERAL OR SYNTHETIC)  
 AMB -15 TO 0 DEG C : ISO 32 SYNTHETIC



**Additional Information:**

6P, VERT HOLLOW SHAFT HIGH THRUST (2D)  
C/BOX 700 CU IN - 3.00" NPT  
OIL RESISTANT SLEEVING ON LEADS  
115V HTR LDS TO MAIN CONDUIT BOX  
BEARING LIFE 8760 HRS AT 24667 LB THRUST  
BEARING LIFE 11388 HRS AT 23000 LB THRUST  
PART WINDING START  
CG:25.10 IN FROM P-BASE FACE,STAT DEF:= 0.005 IN  
RCF: 2567 CPM  
NON-REVERSE BALL CARRIER,  
BOLTED COUPLING, BX = 1.688 IN, EW= 0.375 IN



**Performance Characteristics**

1st Winding 1st Connection

**Design: 49BD3207A**

**Marks:**

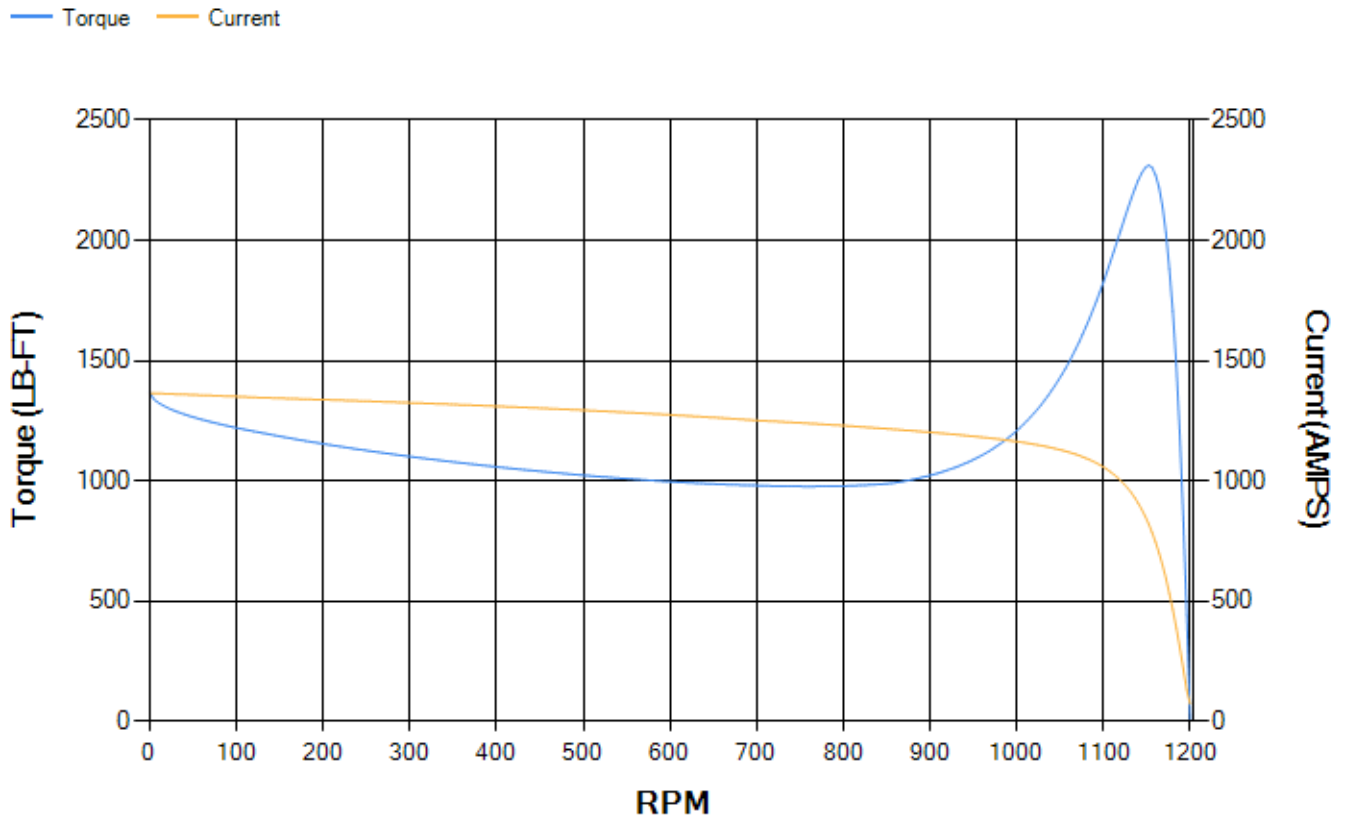
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.39	94.65	95.17	95.26	94.94	92.53	0.00
% PF	86.6	86.56	86.07	83.49	76.28	55.88	4.57
AMPS	286.25	262.74	228.52	176.52	129.23	90.51	70.98

<b>TORQ(FL)#FT</b>	881.13	<b>TORQ(LR)%FL</b>	155.75	<b>TORQ(BD)%FL</b>	262.11
<b>AMPS(LR)</b>	1364.4	<b>PF AT START</b>	0.3		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 12848 Lb-Ft Sq (540.9 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 57 seconds. Safe stall time at 100% voltage is 111 seconds cold, 80 seconds hot. Rotor inertia is 155.9 Lb-Ft Sq (6.56 Kg-meter Sq).

<b>Open Circuit A-C:</b>	1.228	<b>Short Circuit D-C:</b>	0.026
<b>Short Circuit A-C:</b>	0.058	<b>X/R Ratio:</b>	9.887
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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





Marks:

**Connection Diagram**  
**GEM2034E-FIG19**



**Heater Connection**  
**3027JE-1C**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7661AA1	115E7670LM1
Bearing	235A2622AA01	235A2536AB01
Slinger/Inproseal	149C4399G06	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1050AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

