



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

# Product Technical Information

July 14, 2020

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

<b>Model Number:</b>	<b>5KS444SAJ6008B</b>
<b>Catalog Number:</b>	<b>V4716</b>
<b>Instruction Manual:</b>	GEI-M1045
<b>Connection Diagram:</b>	GEM2034E-FIG1
<b>Outline Drawing:</b>	148CB44TMHKCCAA0001

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	3027JE-2A	<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>5KS444SAJ6008B</b>	<b>Estimated Weight:</b>	2470 Lbs
<b>Outline Drawing:</b>	148CB44TMHKCCAA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG1	<b>Enclosure:</b>	TEFC
<b>Instruction Book:</b>	GEI-M1045	<b>Encl Construction:</b>	X\$D
<b>Design Code:</b>	44BD1118AC	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L444TP16	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	95.4 %
<b>Output Power:</b>	125HP 92.5KW	<b>Guaranteed Efficiency:</b>	94.5 %
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	36.6
<b>Amps - FL:</b>	144.0	<b>Power Factor:</b>	85.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6217C3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	235A2536AB01

Enclosure is Totally Enclosed Fan-Cooled

---

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 145W  
 ROT CCW FACING TOP LEAD/PH SEQ 1-2-3/1-2-3  
 THERMOSTAT LEADS TB1-TB2 TRIP  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT  
 VAR TORQUE RANGE 5-60 HZ  
 UPPER BRG LUBE OIL: 17 QTS  
 0 DEG C TO 40 DEG C : ISO 32(MINERAL OR SYNTHETIC)  
 -15 DEG C TO 0 DEG C : ISO 32 SYNTHETIC  
 SUITABLE FOR 100 HP, 380V, 50 HZ WITH  
 139.0 AMPS AND 1480 RPM AT 1.00 SF



**Additional Information:**

4P, VERT HOLLOW SHAFT HIGH THRUST (1D)  
C/BOX 700 CU IN - 3.00" NPT  
OIL RESISTANT SLEEVING ON LEADS  
N.C. TRIP TSTAT LDS TO MAIN CONDUIT BOX  
115V HTR LDS TO MAIN CONDUIT BOX  
INSULATED UPPER BEARING CARRIER  
SHAFT GROUNDING RING MOUNTED ON LOWER END BRG CAP  
BEARING LIFE 8760 HRS AT 14462 LB THRUST  
CG:24.00 IN FROM P-BASE FACE, STAT DEF:= 0.005 IN  
RCF: 2634 CPM (+/- 10%)  
NON-REVERSE BALL CARRIER,  
BOLTED COUPLING, BX = 1.501", EW = .375"



**Performance Characteristics**

1st Winding 1st Connection

**Design: 44BD1118AC**

**Marks:**

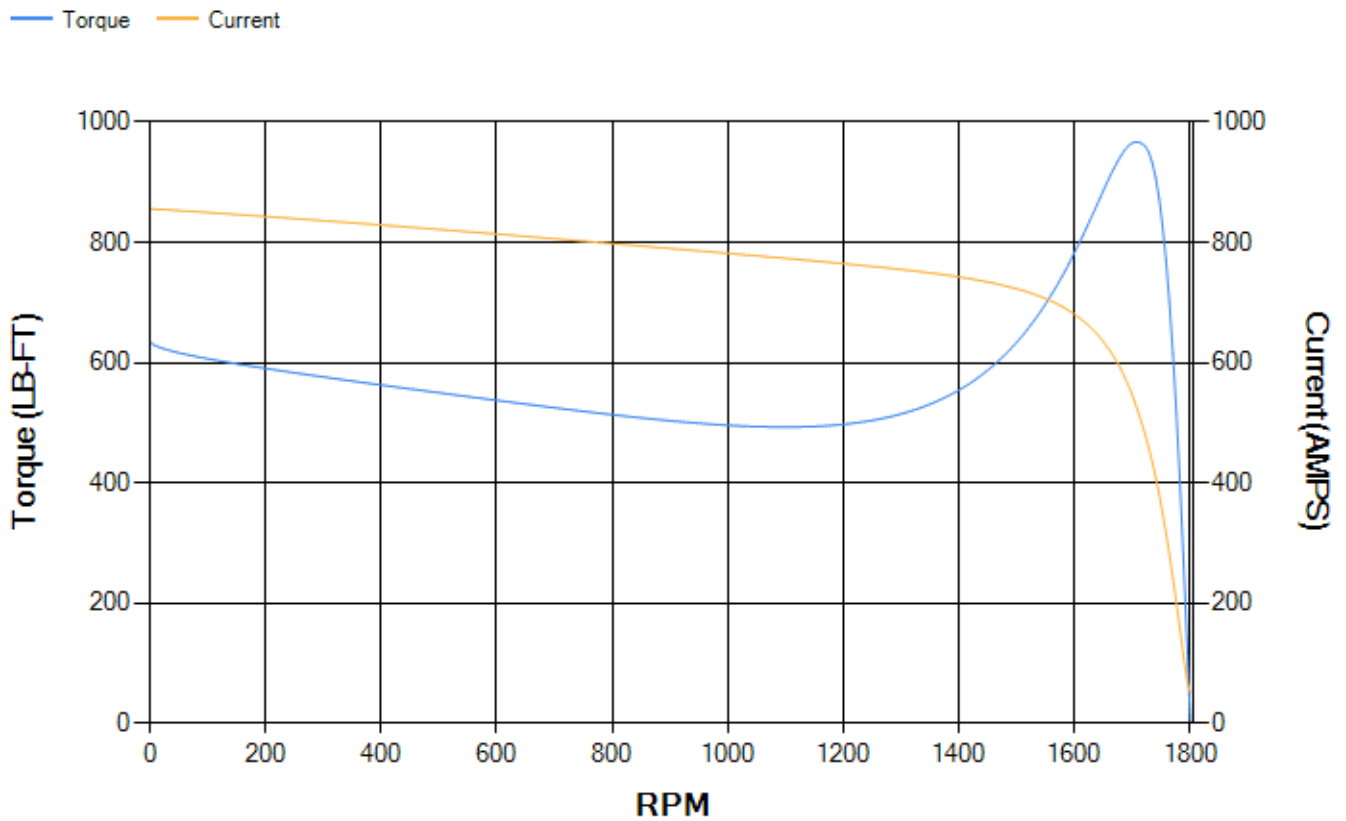
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.43	94.61	95	94.84	94.16	90.9	0.00
% PF	86.92	86.58	85.6	82.06	73.46	51.86	5.05
AMPS	178.17	164.26	143.87	112.74	84.57	62.04	51.1

<b>TORQ(FL)#FT</b>	368.37	<b>TORQ(LR)%FL</b>	172.72	<b>TORQ(BD)%FL</b>	262.2
<b>AMPS(LR)</b>	856.06	<b>PF AT START</b>	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1864 Lb-Ft Sq (78.47 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 24 seconds. Safe stall time at 100% voltage is 58 seconds cold, 29 seconds hot. Rotor inertia is 49.14 Lb-Ft Sq (2.07 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.704	<b>Short Circuit D-C:</b>	0.029
<b>Short Circuit A-C:</b>	0.038	<b>X/R Ratio:</b>	10.862
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

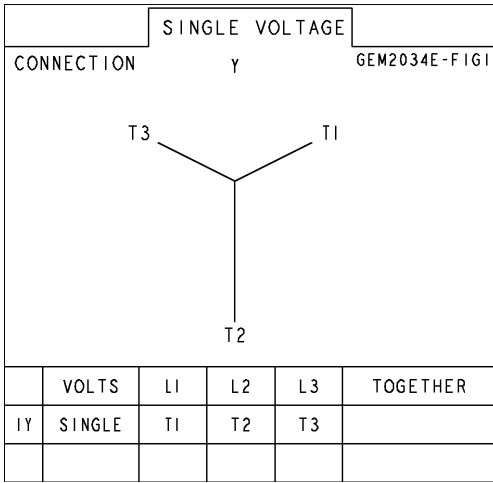
**Speed Torque Current Curve (First Connection, First Speed)**



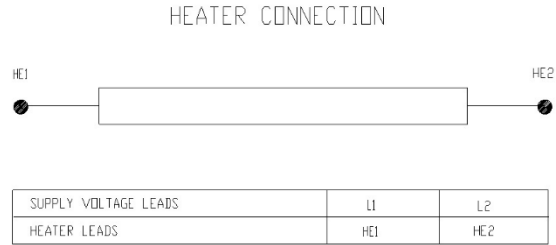


Marks:

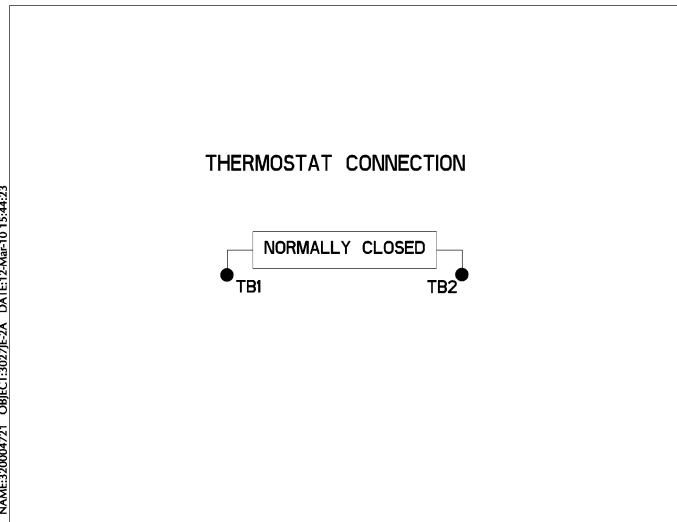
**Connection Diagram**  
**GEM2034E-FIG1**



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



**Thermostat Connection**  
**3027JE-2A**



NAME:32000471 OBJECT:3027JE-2A DATE:12-Mar-10 15:44:23



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8660AA1	115E8670LA1
Bearing	235A2522AJ01	235A2536AB01
Slinger/Inproseal	149C4399G06	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1890G01
Fan Cover	128D6847AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

