



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

# Product Technical Information

February 17, 2023

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

<b>Model Number:</b>	<b>5KS404DAJ6064</b>
<b>Catalog Number:</b>	<b>V4473</b>
<b>Instruction Manual:</b>	GEI-M1045
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	148CB40VMHKCCAA0001

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>5KS404DAJ6064</b>	<b>Estimated Weight:</b>	1160 Lbs
<b>Outline Drawing:</b>	148CB40VMHKCCAA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG9	<b>Enclosure:</b>	WPI
<b>Instruction Book:</b>	GEI-M1045	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	40BD1195A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L404TP16	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	94.1 %
<b>Output Power:</b>	100HP 74KW	<b>Guaranteed Efficiency:</b>	93.0 %
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	200-230/460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	30.6
<b>Amps - FL:</b>	269.0/234.0/117.0	<b>Power Factor:</b>	84.5
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6215C3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	235A2532AA01

Enclosure is Weather Protected One

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Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP  
 HTR LDS HE1-HE2 115V 100W  
 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 5 -60 HZ  
 UPPER BRG LUBE OIL: 6 QTS  
 AMB 0 TO 40 DEG C : ISO 32(MINERAL OR SYNTHETIC)  
 AMB -15 TO 0 DEG C : ISO 32 SYNTHETIC  
 SUITABLE FOR 75 HP, 190/380V, 50 HZ,  
 215.0/108.0 AMPS AND 1480 RPM AT 1.0 SF



**Additional Information:**

4P, 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 14600 LB THRUST  
BEARING LIFE 10339 HRS AT 14000 LB THRUST  
CG:18.50 IN FROM P-BASE FACE, STAT DEF:0.0032 IN  
RCF:3240 CPM AT C/BOX SIDE, 3360 CPM AT  
90 DEG FROM C/ BOX SIDE  
NON-REVERSE BALL CARRIER,  
BOLTED COUPLING, BX = 1.688 IN, EW= 0.375 IN  
FIRE PUMP MOTOR  
ESTIMATED SOUND PRESSURE < 85 DBA@ 1 METER



**Performance Characteristics**

1st Winding 1st Connection

**Design: 40BD1195A**

**Marks:**

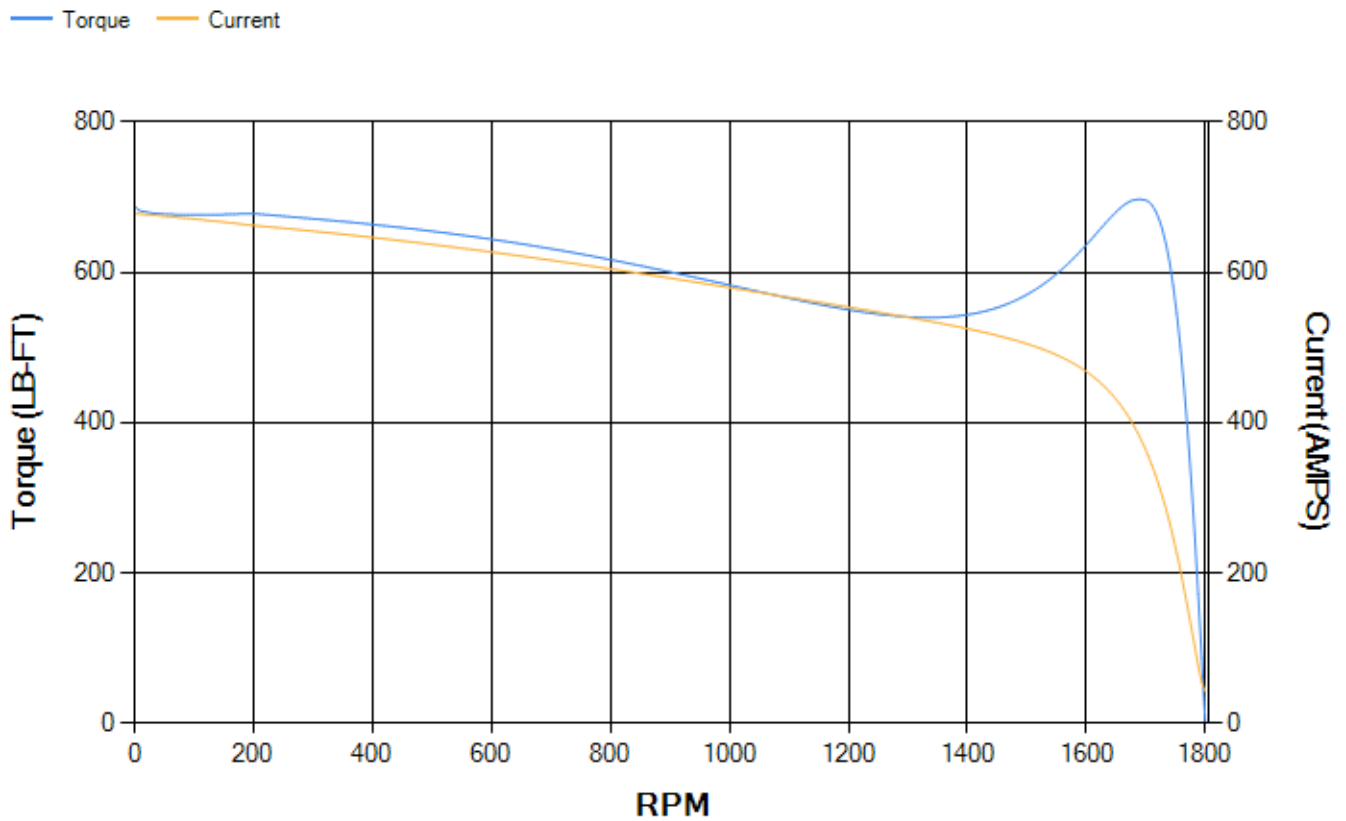
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.84	94.11	94.64	94.68	94.25	91.39	0.00
% PF	85.45	85.17	84.25	80.67	71.86	50.07	4.44
AMPS	145.89	134.28	117.39	91.9	69.1	51.13	42.61

<b>TORQ(FL)#FT</b>	295.31	<b>TORQ(LR)%FL</b>	233.12	<b>TORQ(BD)%FL</b>	235.69
<b>AMPS(LR)</b>	678.32	<b>PF AT START</b>	0.43		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1778 Lb-Ft Sq (74.85 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 20 seconds. Safe stall time at 100% voltage is 40 seconds cold, 24 seconds hot. Rotor inertia is 22.33 Lb-Ft Sq (0.94 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.577	<b>Short Circuit D-C:</b>	0.021
<b>Short Circuit A-C:</b>	0.029	<b>X/R Ratio:</b>	7.911
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

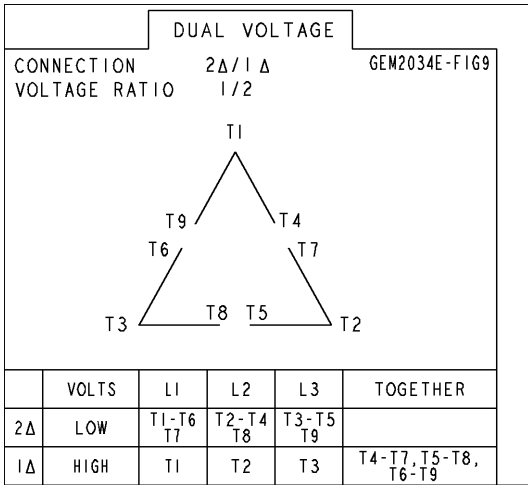
**Speed Torque Current Curve (First Connection, First Speed)**



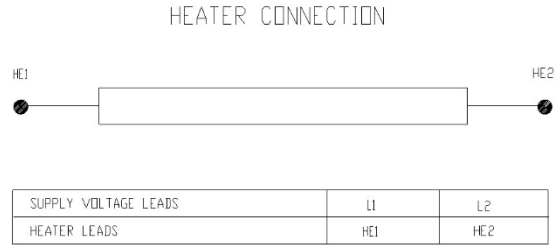


**Marks:**

**Connection Diagram**  
**GEM2034E-FIG9**



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



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7306AC1	115E7310LK-G01
Bearing	235A2513AL01	235A2532AA01
Slinger/Inproseal	235A2300HW1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1054AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

