



**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>5KS444DAJ6096</b>
<b>Catalog Number:</b>	<b>V4481</b>
<b>Instruction Manual:</b>	GEI-M1045
<b>Connection Diagram:</b>	GEM2034E-FIG273
<b>Outline Drawing:</b>	148CB44VMJKCCAA0001

## 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		

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Marks:

<b>MODEL NUMBER:</b>	<b>5KS444DAJ6096</b>	<b>Estimated Weight:</b>	2490 Lbs
<b>Outline Drawing:</b>	148CB44VMJKCCAA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG273	<b>Enclosure:</b>	WPI
<b>Instruction Book:</b>	GEI-M1045	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	44BD1342A	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L444TP20	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	95.8 %
<b>Output Power:</b>	200HP 148KW	<b>Guaranteed Efficiency:</b>	95.0 %
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460/575	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	45.8
<b>Amps - FL:</b>	225.0/194.0	<b>Power Factor:</b>	87.5
<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

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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 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  
SUITABLE FOR 150 HP, 380V, 50 HZ WITH  
275.0 AMPS AND 1470 RPM AT 1.00 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 22500 LB THRUST  
BEARING LIFE 9630 HRS AT 22000 LB THRUST  
CG:22.60 IN FROM P-BASE FACE, STAT DEF:= 0.004 IN  
RCF: 2950 CPM  
NON-REVERSE BALL CARRIER,  
BOLTED COUPLING, BX = 1.688 IN, EW= 0.375 IN  
FIRE PUMP MOTOR  
ESTIMATED SOUND PRESSURE 83 DBA AT 1 METER



**Performance Characteristics**

1st Winding 1st Connection

**Design: 44BD1342A**

**Marks:**

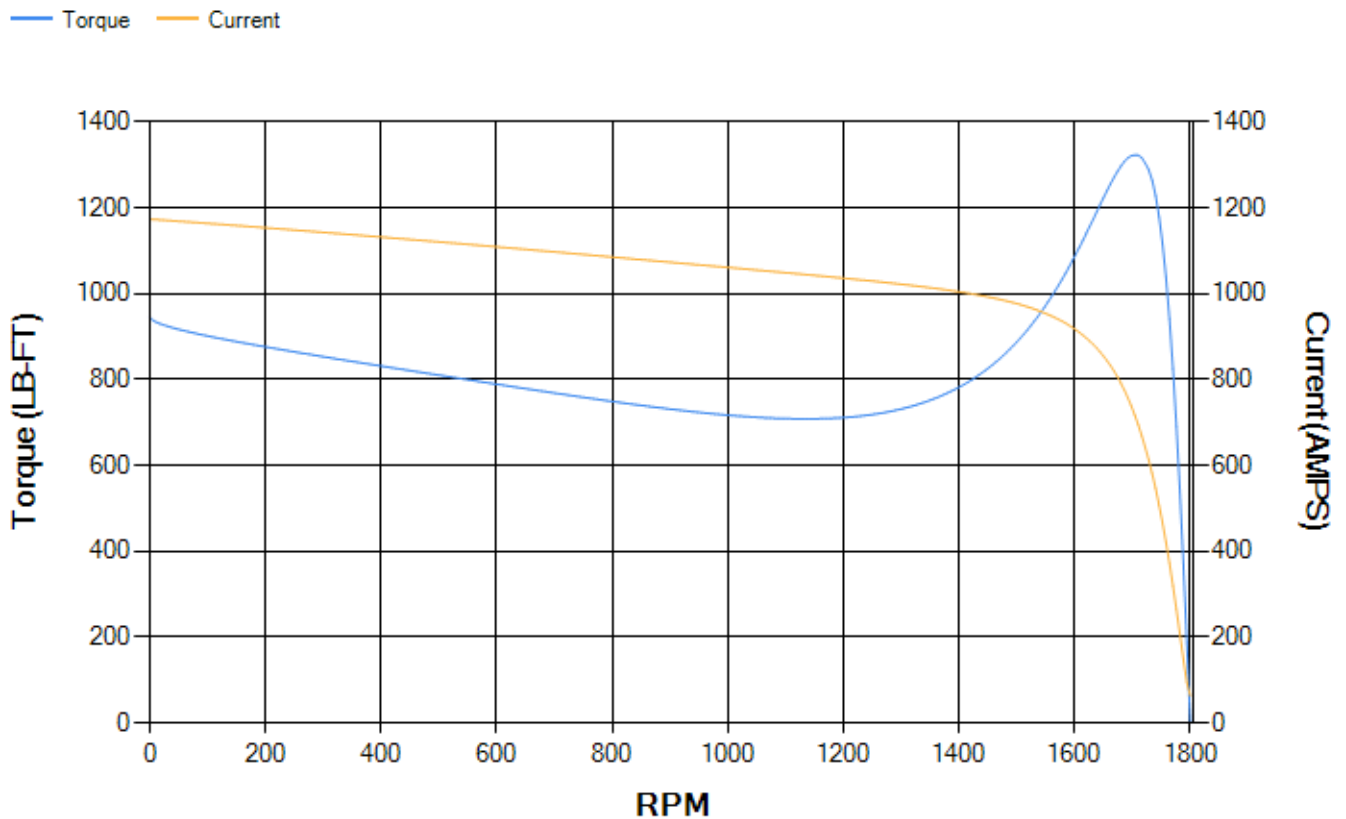
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.4	94.67	95.2	95.3	95.02	92.68	0.00
% PF	87.74	87.84	87.6	85.61	79.38	60.01	4.96
AMPS	282.51	258.87	224.47	172.07	124.08	84.14	63.8

<b>TORQ(FL)#FT</b>	590.26	<b>TORQ(LR)%FL</b>	160.39	<b>TORQ(BD)%FL</b>	223.88
<b>AMPS(LR)</b>	1174.1	<b>PF AT START</b>	0.33		

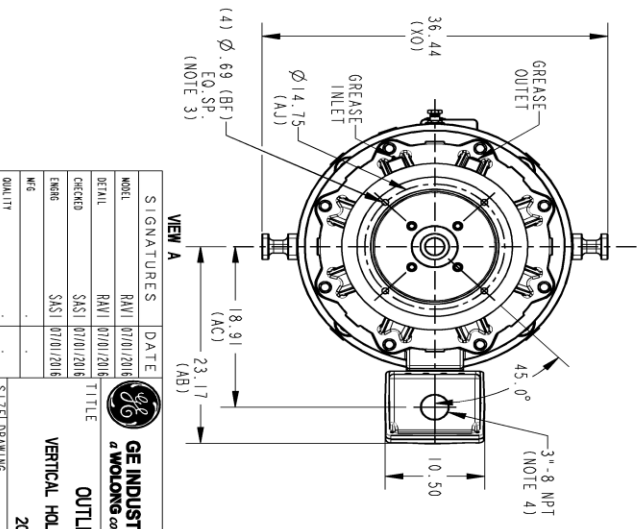
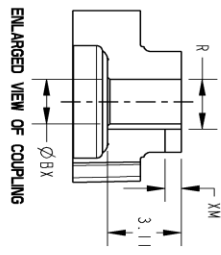
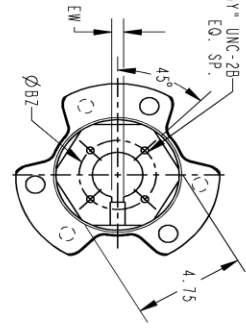
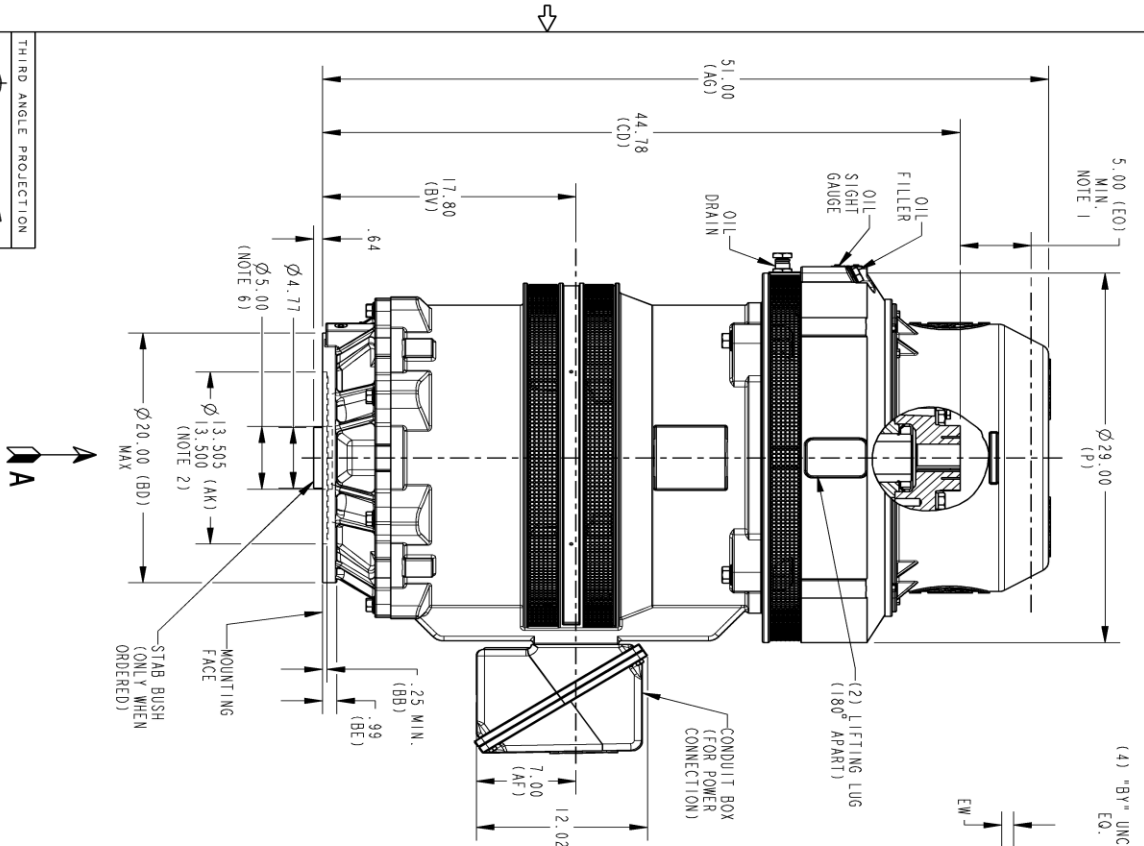
This motor is capable of two cold or one hot start with a maximum connected load inertia of 2536 Lb-Ft Sq (106.77 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 24 seconds. Safe stall time at 100% voltage is 48 seconds cold, 28 seconds hot. Rotor inertia is 64.39 Lb-Ft Sq (2.71 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.797	<b>Short Circuit D-C:</b>	0.031
<b>Short Circuit A-C:</b>	0.039	<b>X/R Ratio:</b>	11.857
<b>Stator Slots:</b>	72	<b>Rotor Slots:</b>	58

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



Marks:



- NOTES:
1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
  2. TOLERANCE ON FACE ROUNDT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 T. I. R
  3. CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRELINE OF MOUNTING RABBIT.
  4. PROVIDED MONTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
  5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
  6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

DIMENSIONS IN INCHES  
NEMA TYPE P BASE

COUPLING DIMENSIONS		KEY WAY			
BY	BZ	EW	R	XM	
1.501	1/4-20	2.125	.315	1.659	.562
1.688	1/4-20	2.500	.315	1.859	.562
1.751	1/4-20	2.500	.315	1.922	.562
1.813	1/4-20	2.500	.500	2.033	.688
1.938	1/4-20	2.500	.500	2.160	.688
2.001	3/8-16	3.250	.500	2.223	.688
2.063	3/8-16	3.250	.500	2.287	.688
2.126	3/8-16	3.250	.500	2.350	.688
2.188	3/8-16	3.250	.500	2.414	.688
2.251	3/8-16	3.250	.500	2.477	.688
2.316	3/8-16	3.250	.500	2.550	.688
2.438	3/8-16	3.250	.625	2.715	.812
2.501	3/8-16	3.250	.625	2.777	.812

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0810	09/24/18	SAGAR
2	ISSAC# 18-0869	12/06/18	PRAASHANTH

SIGNATURES	DATE
RAVI	07/01/2016
RAVI	07/01/2016
SASI	07/01/2016
SASI	07/01/2016
WIC	
ISSUED	
SOLID MODEL: 148CB44VMJKCCA0001	

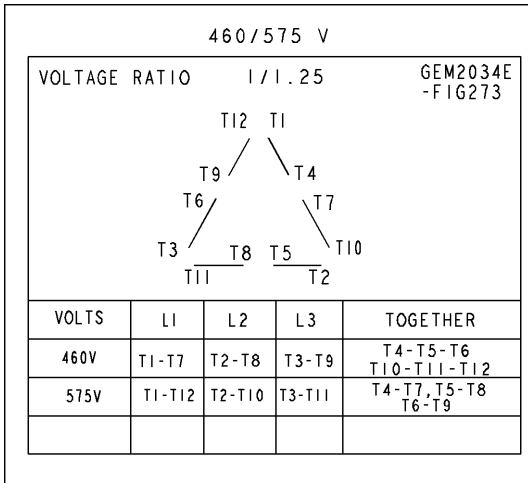
**GE INDUSTRIAL MOTORS**  
a wolong company

OUTLINE, NEMA WPI 444/445  
VERTICAL HOLLOW SHAFT-HIGH THRUST GRS LOWER  
200 BD, 700 CU. IN. C/B/OX

SCALE: 0.120 REF. NO.:  
148CB44VMJKCCA0001  
SHEET 1 OF 1

**Marks:**

**Connection Diagram**  
**GEM2034E-FIG273**



**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	

