



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.

Model Number:	5KS444DAJ7039
Catalog Number:	V4611
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG19
Outline Drawing:	148CB44VMJKCCAA0001

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

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Marks:

MODEL NUMBER:	5KS444DAJ7039	Estimated Weight:	2370 Lbs
Outline Drawing:	148CB44VMJKCCAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	44BD3090DA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L444TP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.0 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.1 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	34.8
Amps - FL:	121.0	Power Factor:	81.5
Service Factor:	1.15	Bearing - DE:	6217C3
Alt Service Factor:	--	Bearing - ODE:	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
SUITABLE FOR 75HP, 380V, 50 HZ WITH
111 AMPS AND 990 RPM AT 1.00 SF



Additional Information:

6P, VERT HOLLOW SHAFT HIGH THRUST (1D)
C/BOX 700 CU IN - 3.00" NPT
OIL RESISTANT SLEEVING ON LEADS
115V HTR LDS TO MAIN CONDUIT BOX
INSULATED UPPER BEARING CARRIER
SHAFT GROUNDING RING MOUNTED ON DE BRG CAP
BEARING LIFE 8760 HRS AT 16082 LB THRUST
BEARING LIFE 8939 HRS AT 16000 LB THRUST
PART WINDING START
CG:22.60 IN FROM P-BASE FACE, STAT DEF:= 0.004 IN
RCF: 3032 CPM
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.501 IN, EW= 0.375 IN
FIRE PUMP MOTOR



Performance Characteristics

1st Winding 1st Connection

Design: 44BD3090DA

Marks:

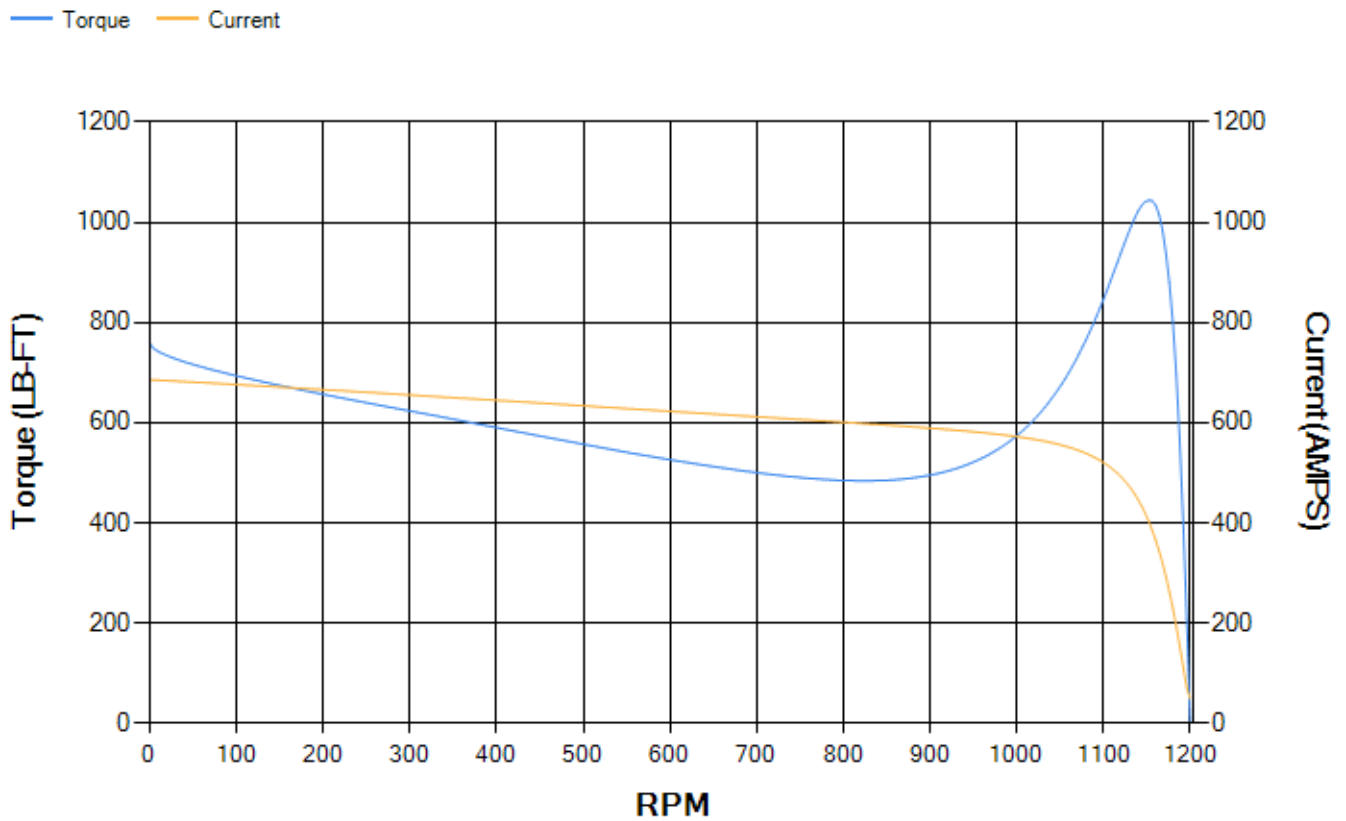
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.34	94.57	95.05	95.05	94.58	91.81	0.00
% PF	83.06	82.64	81.45	77.16	67.33	45.19	3.73
AMPS	149.31	137.71	120.89	95.71	73.48	56.4	48.46

TORQ(FL)#FT	440.67	TORQ(LR)%FL	172.35	TORQ(BD)%FL	236.53
AMPS(LR)	685.87	PF AT START	0.34		

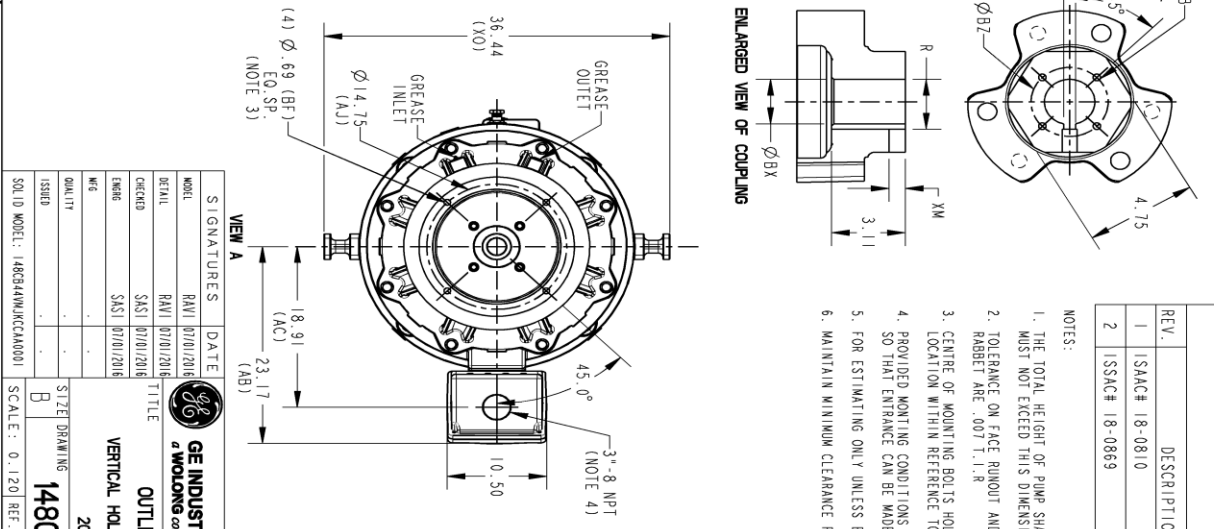
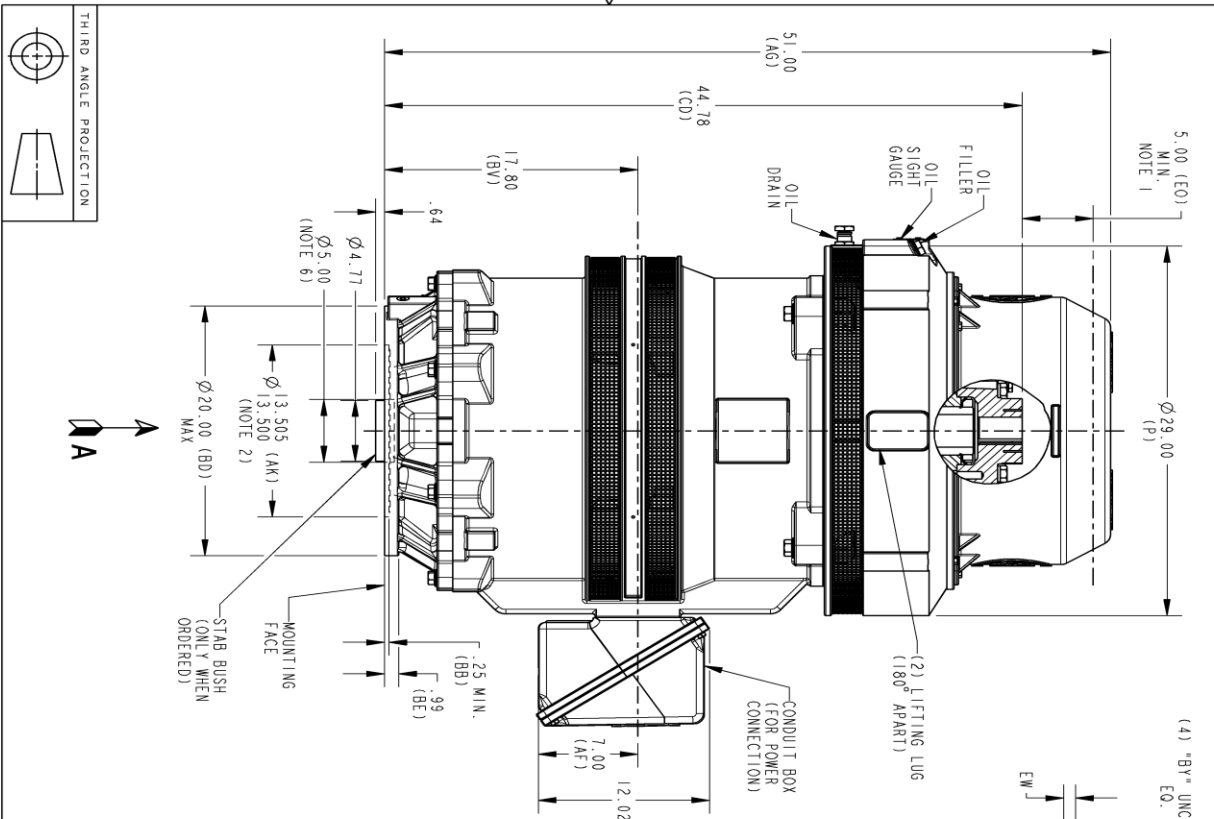
This motor is capable of two cold or one hot start with a maximum connected load inertia of 5754 Lb-Ft Sq (242.24 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 49 seconds. Safe stall time at 100% voltage is 83 seconds cold, 62 seconds hot. Rotor inertia is 75.52 Lb-Ft Sq (3.18 Kg-meter Sq).

Open Circuit A-C:	0.887	Short Circuit D-C:	0.026
Short Circuit A-C:	0.057	X/R Ratio:	9.659
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



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	1.659 .562
1.751	1/4-20 2.500	.315	1.922 .562
1.813	1/4-20 2.500	.500	2.033 .668
1.938	1/4-20 2.500	.500	2.160 .668
2.001	3/8-16 3.250	.500	2.223 .668
2.063	3/8-16 3.250	.500	2.287 .668
2.126	3/8-16 3.250	.500	2.350 .668
2.188	3/8-16 3.250	.500	2.414 .668
2.251	3/8-16 3.250	.500	2.477 .668
2.316	3/8-16 3.250	.500	2.550 .668
2.438	3/8-16 3.250	.625	2.715 .812
2.501	3/8-16 3.250	.625	2.777 .812

SIGNATURES	DATE	REV	DESCRIPTION	DATE	APPROVED
RAVI	01/01/2016	1	ISAC# 18-0810	09/24/18	SAGAR
SASI	01/01/2016	2	ISSAC# 18-0869	12/06/18	PRAASHANTH

GE INDUSTRIAL MOTORS
a wolong company

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

SCALE: 0.120 REF. NO. 148CB44VMJKCCAA0001

148CB44VMJKCCAA0001 002

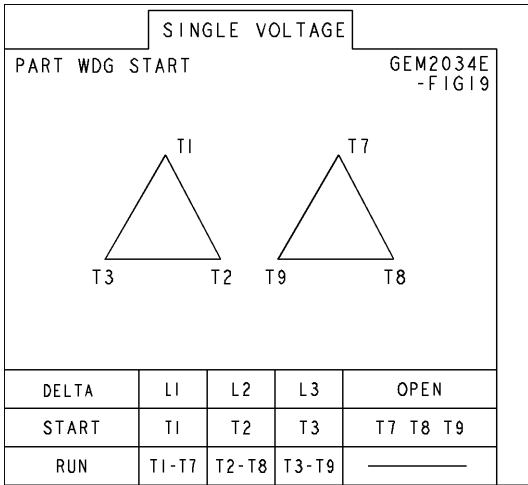
REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 18-0810	09/24/18	SAGAR
2	ISSAC# 18-0869	12/06/18	PRAASHANTH

NOTES:

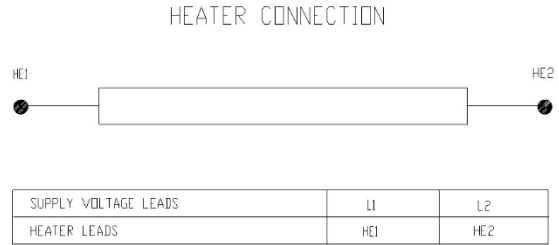
- THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
- TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 T.1 R
- CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRELINE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

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	

