



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

September 9, 2022

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

Model Number:	5KS447DAJ7039
Catalog Number:	V4447
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG19
Outline Drawing:	148CB49VMJKLGAA0001

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:	5KS447DAJ7039	Estimated Weight:	3100 Lbs
Outline Drawing:	148CB49VMJKLGAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	49BD3206A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L447TP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	6	Nominal Efficiency:	95.8 %
Output Power:	250HP 185KW	Guaranteed Efficiency:	95.0 %
RPM:	1190	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	69.3
Amps - FL:	290.0	Power Factor:	84.5
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



Additional Information:

6P, VERT HOLLOW SHAFT HIGH THRUST (2D)
C/BOX 1260 CU IN - 2(4.00" NPT)
C/B GRD PLATE
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: 2533 CPM
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.938 IN, EW= 0.500 IN



Performance Characteristics

1st Winding 1st Connection

Design: 49BD3206A

Marks:

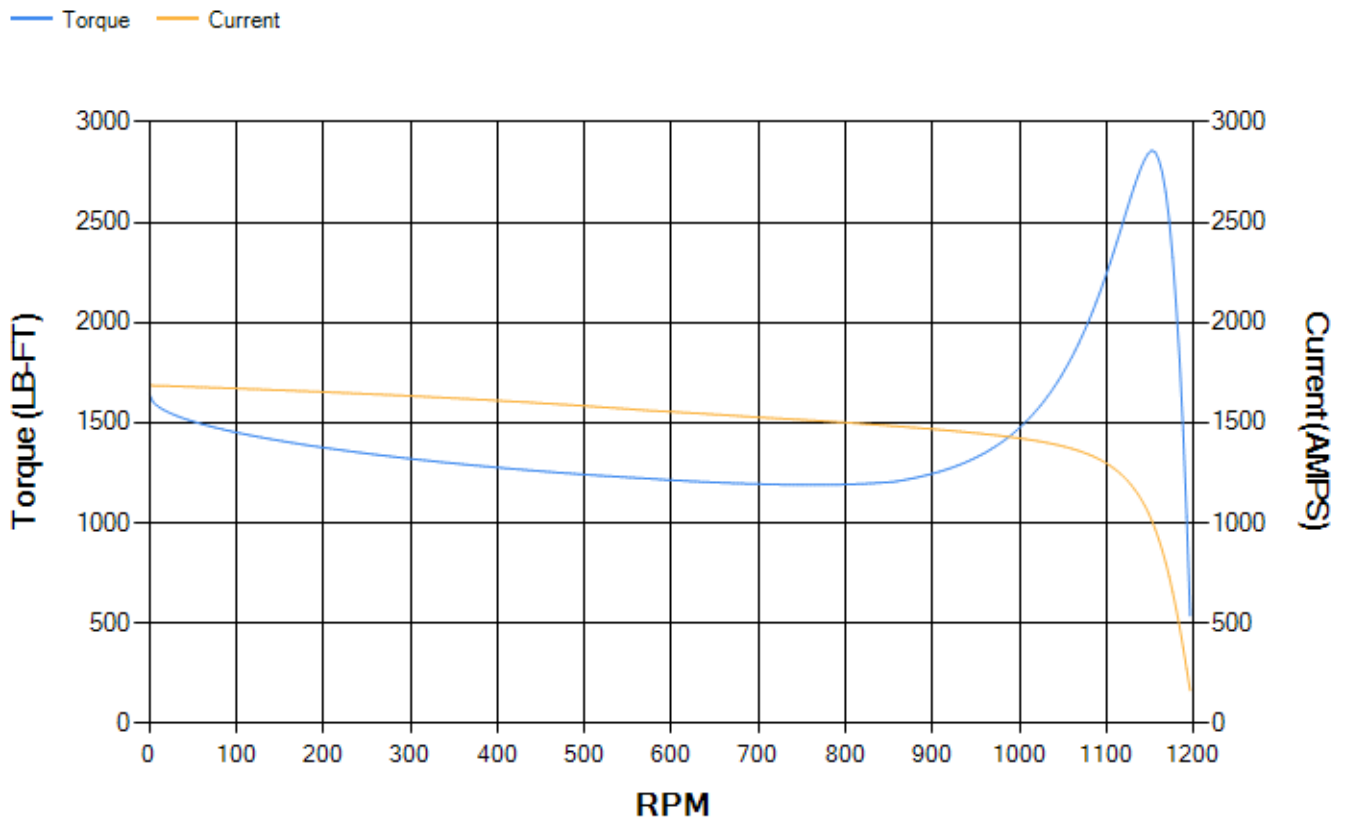
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.64	94.94	95.51	95.72	95.62	93.81	0.00
% PF	85.19	85.12	84.52	81.58	73.62	52.29	3.3
AMPS	362.77	332.99	289.87	224.74	166.18	119.25	96.66

TORQ(FL)#FT	1102.98	TORQ(LR)%FL	148.67	TORQ(BD)%FL	258.83
AMPS(LR)	1686.19	PF AT START	0.27		

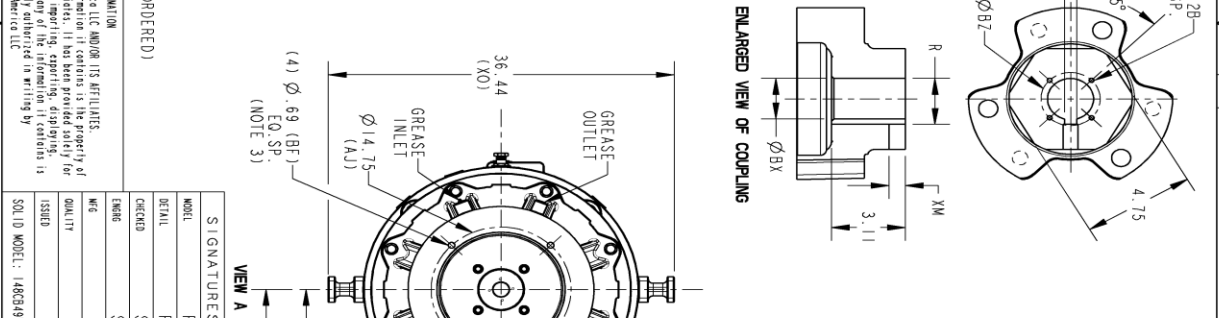
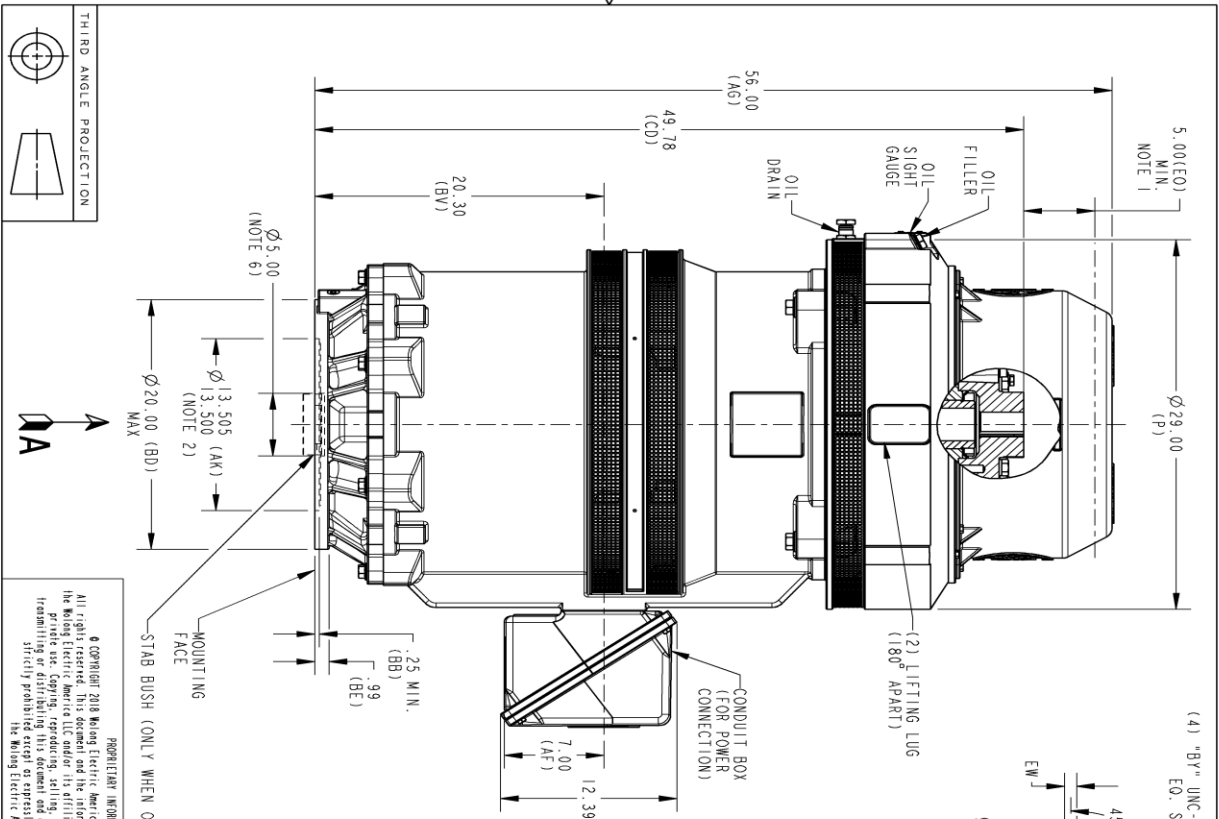
This motor is capable of two cold or one hot start with a maximum connected load inertia of 11105 Lb-Ft Sq (467.52 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 41 seconds. Safe stall time at 100% voltage is 100 seconds cold, 50 seconds hot. Rotor inertia is 163.21 Lb-Ft Sq (6.87 Kg-meter Sq).

Open Circuit A-C:	0.942	Short Circuit D-C:	0.031
Short Circuit A-C:	0.049	X/R Ratio:	11.616
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



REV.	DESCRIPTION	DATE	APPROVED
1	ISAC #18-0869	12/11/18	PRASHANTH SREDEVI
2	ISAC #19-0869	11/19/19	BARATH HARI KRAN
3	ISAC #20-0136	02/17/20	KI SHORE DEEPA MANI
4	C/B HOLE DETAIL UPDATED	10/07/20	DEEPA MANI

COUPLING DIMENSIONS	KEY WAY				
BX	BY	BZ	EW	R	YM
1.501	1/4-20	2.125	.315	1.669	.562
1.688	1/4-20	2.500	.375	1.859	.562
1.751	1/4-20	2.500	.375	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	2.541	.688
2.438	3/8-16	3.250	.625	2.715	.812
2.501	3/8-16	3.250	.625	2.778	.812

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.I.R
- CENTRE OF MOUNTING BOLTS WITHIN 0.025 OF ANGULAR & DIMETRICAL 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 / STABILIZER BUSHING.

PROPRIETARY INFORMATION

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GE INDUSTRIAL MOTORS
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OUTLINE, NEMA WP1 447-449
VERTICAL HOLLOW SHAFT-HIGH THRUST GRS LOWER
200 BD1260 CU IN C/BOX

SCALE: 0.120 REF. No. 148CB49VMJKLGA0001

SHEET 1 OF 1

SIZE DRAWING NO. B 148CB49VMJKLGA0001 004 REV. SHEET

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	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

