

Product Information Packet

April 26, 2017

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

Model Number:	5KS447DAJ6020A
Catalog Number:	V4431
Instruction Manual:	GEK-95352
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:	5KS447DAJ6020A	Estimated Weight:	3450 Lbs
Outline Drawing:	148CB49VMJLGA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEK-95352	Encl Construction:	OPEN
Design Code:	49BD1252AB	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L447TP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	350HP 259KW	Guaranteed Efficiency:	95.0
RPM:	1785	3/4 Load Efficiency:	96.4
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	70.0
Amps - FL:	386.0	Power Factor:	88.5
Service Factor:	1.15	Bearing - DE:	6217C3
Alt Service Factor:	--	Bearing - ODE:	235A2536AB01

Enclosure is Weather Protected One

Stamped Nameplate Notes:

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
 SUITABLE FOR 300 HP, 380V, 50 HZ WITH
 402.0 AMPS AND 1485 RPM AT 1.0 SF

Additional Information:

4 POLE, VERT HOLLOW SHAFT HIGH THRUST (2D)
 SPECIAL BALANCE
 1260 CU IN - 2(4.00" NPT)
 BEARING LIFE 8760 HRS AT 20800 LB THRUST
 C/B GRD PLATE
 OIL RESISTANT SLEEVING ON LEADS
 115V HTR LDS TO MAIN CONDUIT BOX
 COUPLING NOT INCLUDED IN BOM, WILL BE
 ORDERED SEPERATELY
 PART WINDING START

Performance Characteristics

1st Winding 1st Connection

Design: 49BD1252AB

Marks:

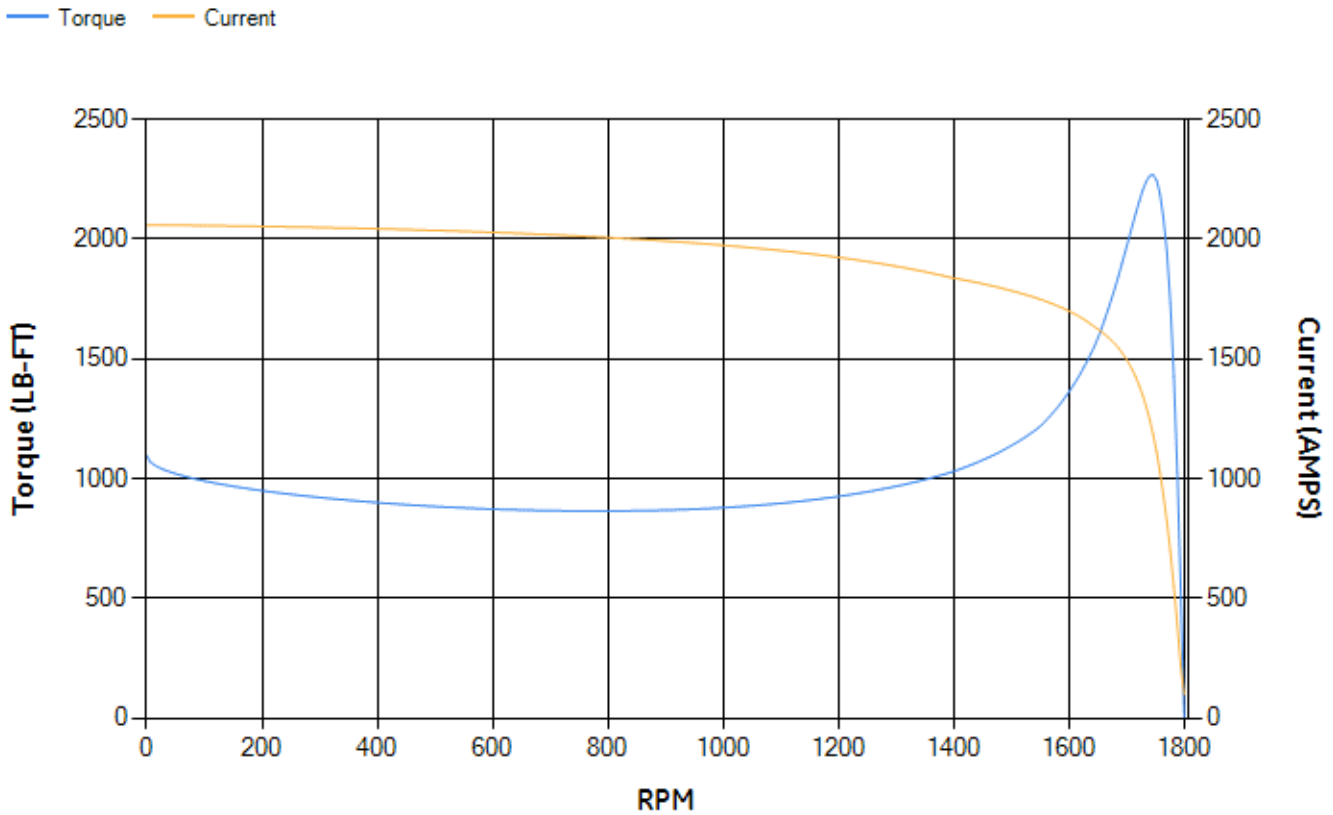
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.3	94.63	95.24	95.5	95.43	93.59	0.00
% PF	88.12	88.42	88.48	87.16	82.06	64.28	4.76
AMPS	492.76	450.27	388.75	295.18	209.15	136.12	97.65

TORQ(FL)#FT	1028.3	TORQ(LR)%FL	106.57	TORQ(BD)%FL	220.47
AMPS(LR)	2059.02	PF AT START	0.25		

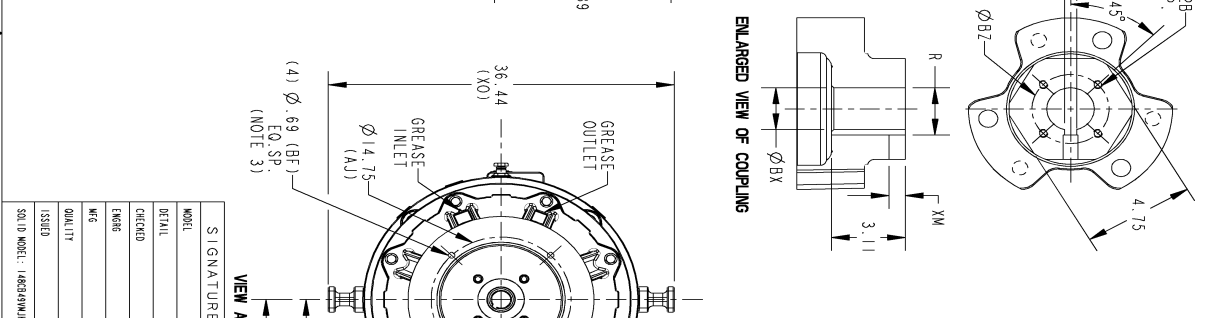
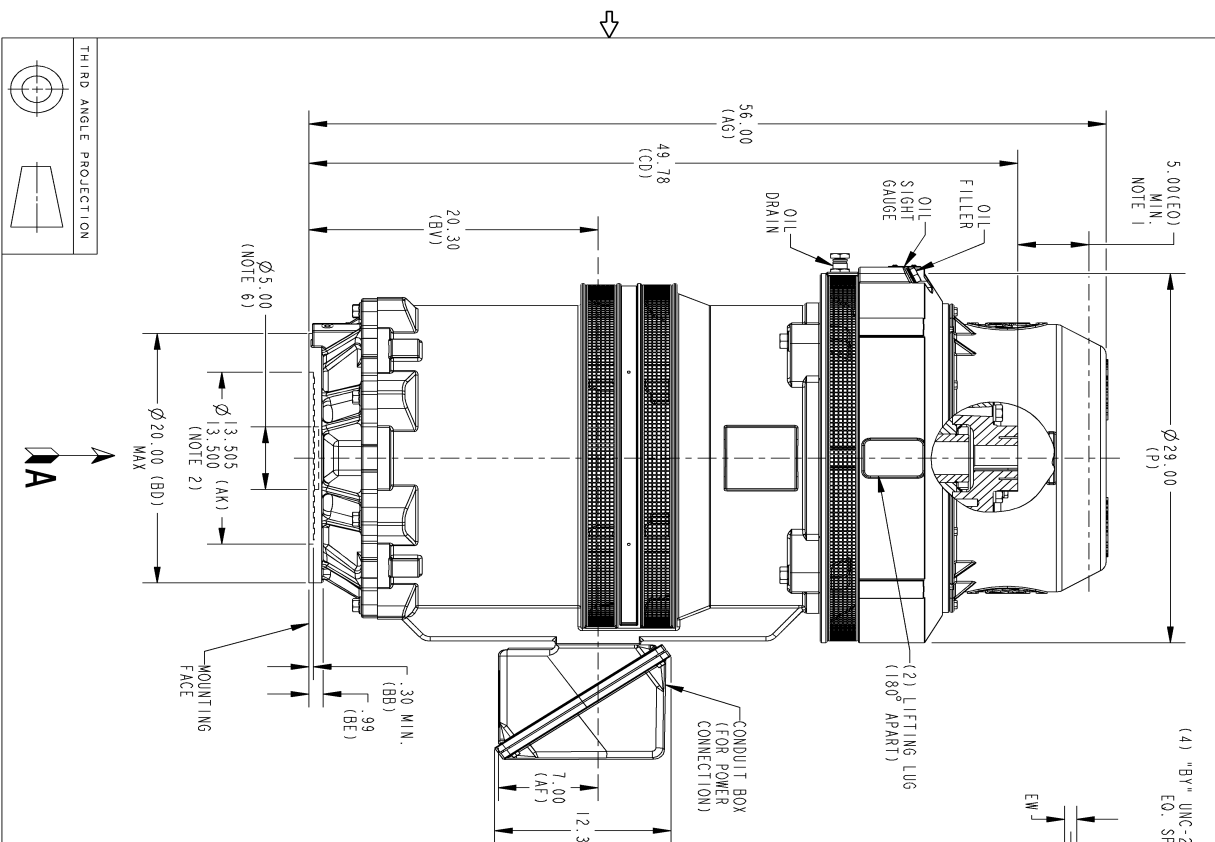
This motor is capable of two cold or one hot start with a maximum connected load inertia of 4064 Lb-Ft Sq (171.09 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 35 seconds. Safe stall time at 100% voltage is 95 seconds cold, 53 seconds hot. Rotor inertia is 107.82 Lb-Ft Sq (4.54 Kg-meter Sq).

Open Circuit A-C:	1.488	Short Circuit D-C:	0.026
Short Circuit A-C:	0.064	X/R Ratio:	9.777
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



SIGNATURES		DATE	
MODEL	REV	DATE	DATE
MODEL	REV	DATE	DATE
DETAIL	RAW	REV	REV
DESIGNED	SAS	REV	REV
ENGR	SAS	REV	REV
CHKD	SAS	REV	REV
ISSUED	SAS	REV	REV
SOLD MODEL	148CB49VMJKLGA0001	REV	REV

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
2. TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBET ARE .007 T.1.R
3. CENTRE OF MOUNTING BOLTS WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRILINE OF MOUNTING RABBET.
4. PROVIDED MOUNTING 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.

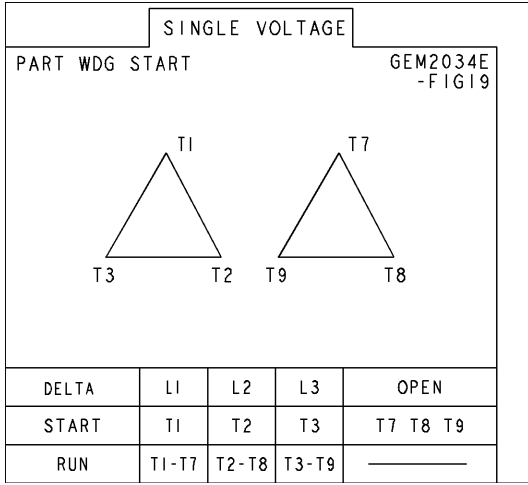
DIMENSIONS IN INCHES
NEMA TYPE P BASE

COUPLING DIMENSIONS			
KEY WAY	KEY WAY	KEY WAY	KEY WAY
BX	BY	BZ	EW
1.501	1/4-20	2.125	.315
1.588	1/4-20	2.500	.375
1.751	1/4-20	2.500	.375
1.813	1/4-20	2.500	.500
1.938	1/4-20	2.500	.500
2.001	3/8-16	3.250	.500
2.063	3/8-16	3.250	.500
2.126	3/8-16	3.250	.500
2.188	3/8-16	3.250	.500
2.251	3/8-16	3.250	.500
2.316	3/8-16	3.250	.500
2.438	3/8-16	3.250	.625
2.501	3/8-16	3.250	.625

GE Motors GENERAL ELECTRIC COMPANY
 TITLE: OUTLINE, NEMA WPI 447-449
 VERTICAL HOLLOW SHAFT-HIGH THRUST GRS LOWER
 200 BD/260 CU IN C/BX
 SCALE: 0.120 REF. No. SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG19



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7661AA1	115E7670LA1
Bearing	235A2522AJ01	235A2536AB01
Slinger/Inproseal		

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	149C4050AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	