



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

October 20, 2020

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

Model Number:	5KS449DAJ6008D2
Catalog Number:	V4432
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG19
Outline Drawing:	148CB49VMJKFGAA0003

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:	5KS449DAJ6008D2	Estimated Weight:	3260 Lbs
Outline Drawing:	148CB49VMJKFGAA0003	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	49BD1253AB	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L449TP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	400HP 296KW	Guaranteed Efficiency:	95.0 %
RPM:	1790	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	79.9
Amps - FL:	441.0	Power Factor:	89.0
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 5 -60 HZ
UPPER BRG LUBE OIL: 10.2 QTS
0 DEG C TO 40 DEG C : ISO 32(MINERAL OR SYNTHETIC)
-15 DEG C TO 0 DEG C : ISO 32 SYNTHETIC
SUITABLE FOR 350 HP, 380V, 50 HZ WITH
469.0 AMPS AND 1485 RPM AT 1.00 SF



Additional Information:

4P, VERT HOLLOW SHAFT HIGH THRUST (2D)
C/BOX 2500 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 22277 LB THRUST
PART WINDING START
CG:25.10 IN FROM P-BASE FACE, STAT DEF:= 0.006 IN
RCF: 2423 CPM
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.938 IN, EW= 0.500 IN
COMMON FOR STD STOCK AS WELL AS FIRE PUMP



Performance Characteristics

1st Winding 1st Connection

Design: 49BD1253AB

Marks:

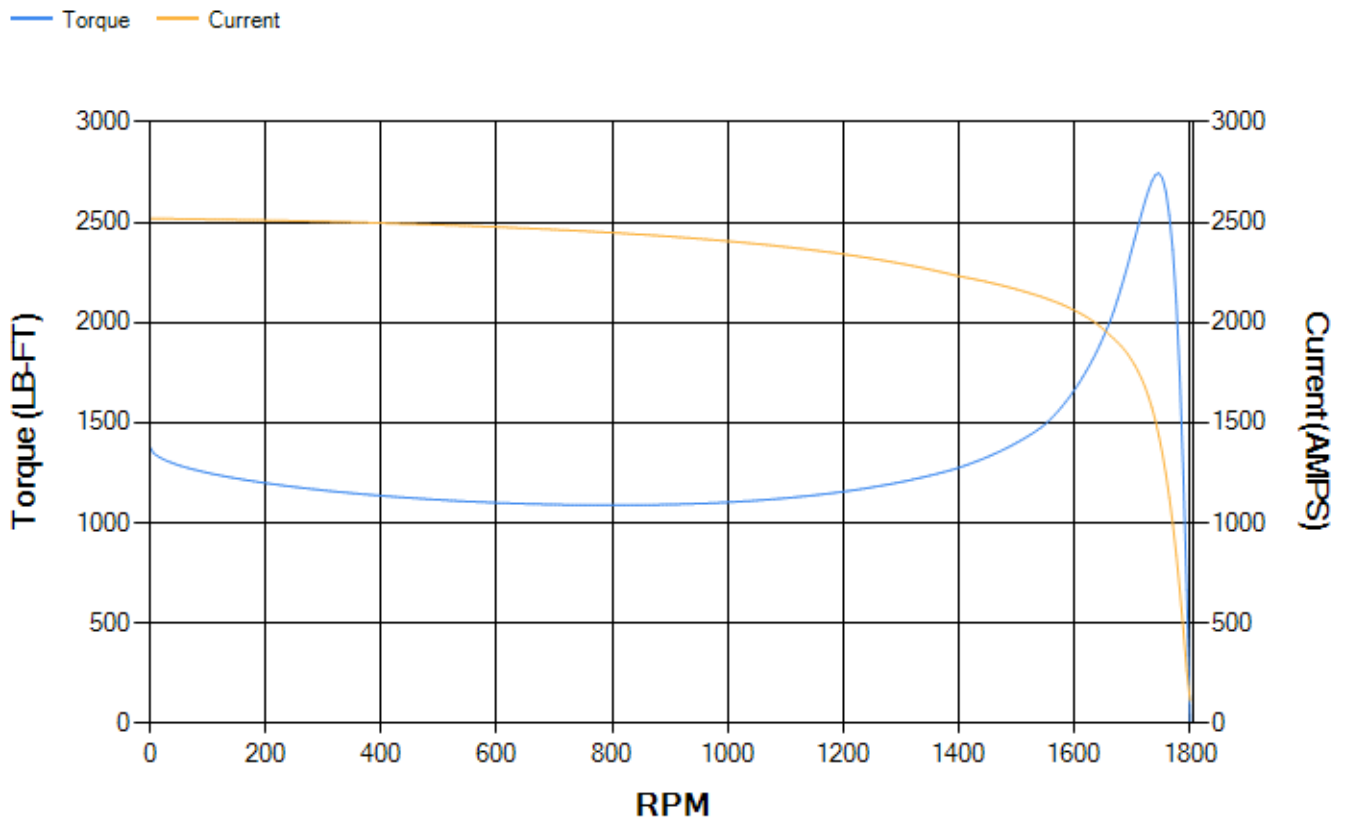
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.74	95.04	95.61	95.83	95.76	94.06	0.00
% PF	88.74	88.94	88.89	87.43	82.21	64.23	4.38
AMPS	556.63	509.35	440.5	335.14	237.77	154.91	111.37

TORQ(FL)#FT	1174.58	TORQ(LR)%FL	117.72	TORQ(BD)%FL	233.55
AMPS(LR)	2519	PF AT START	0.25		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4732 Lb-Ft Sq (199.22 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 32 seconds. Safe stall time at 100% voltage is 85 seconds cold, 48 seconds hot. Rotor inertia is 128.77 Lb-Ft Sq (5.42 Kg-meter Sq).

Open Circuit A-C:	1.585	Short Circuit D-C:	0.026
Short Circuit A-C:	0.063	X/R Ratio:	9.867
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



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	235A2522AJ01	235A2536AB01
Slinger/Inproseal	149C4399G06	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1050AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	179B9098BP-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

