



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

July 15, 2020

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

Model Number:	5KS447DAJ6008D1
Catalog Number:	V4430
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:	5KS447DAJ6008D1	Estimated Weight:	2870 Lbs
Outline Drawing:	148CB49VMJKLGAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	49BD1381AB	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:	300HP 222KW	Guaranteed Efficiency:	95.0 %
RPM:	1785	3/4 Load Efficiency:	--
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	79.7
Amps - FL:	338.0	Power Factor:	87.0
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 250 HP, 380V, 50 HZ WITH
341.0 AMPS AND 1485 RPM AT 1.00 SF



Additional Information:

4P, 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 22277 LB THRUST
PART WINDING START
CG:25.10 IN FROM P-BASE FACE, STAT DEF:= 0.0058 IN
RCF: 2690 CPM
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.688, EW = .375"
COMMON FOR STD STOCK AS WELL AS FIRE PUMP



Performance Characteristics

1st Winding 1st Connection

Design: 49BD1381AB

Marks:

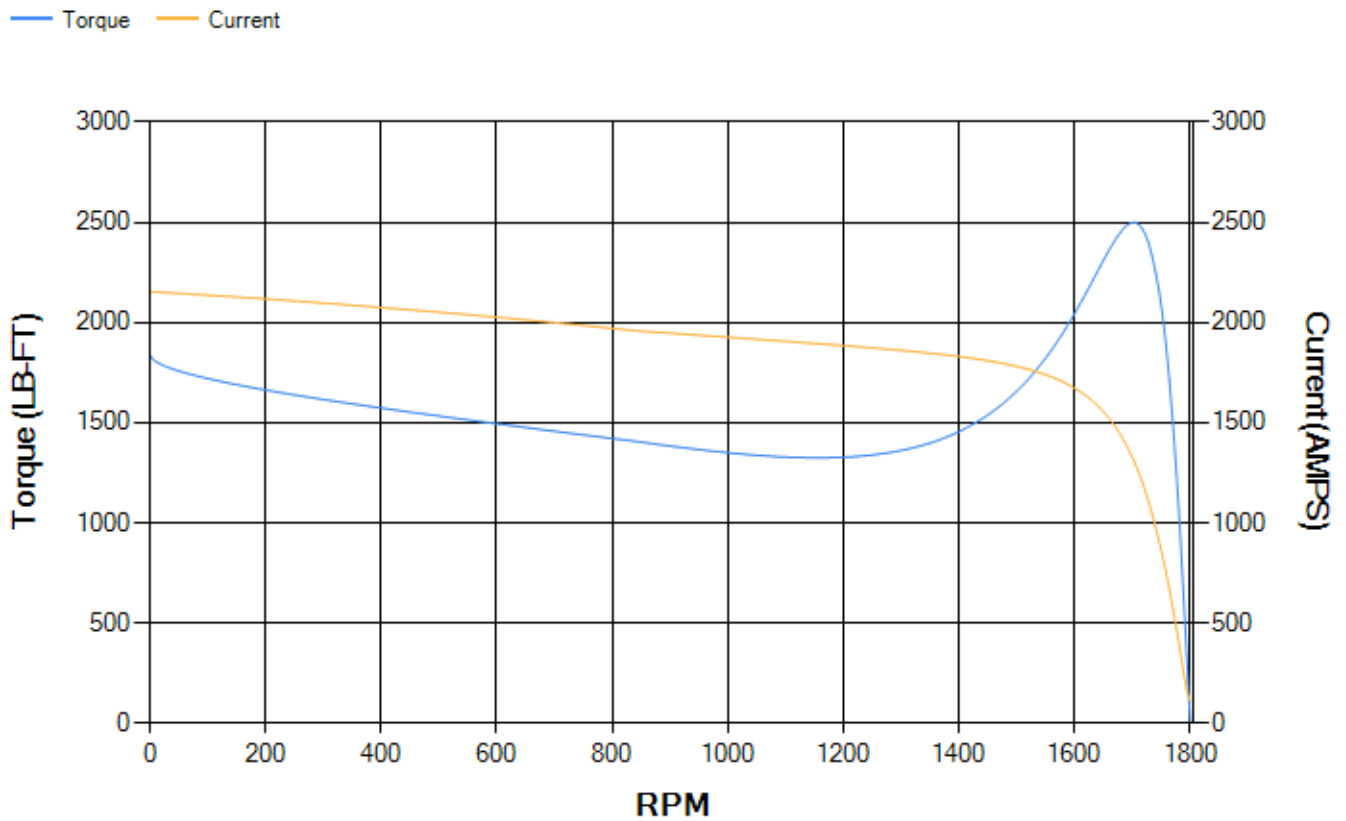
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.83	95.03	95.46	95.4	94.95	92.32	0.00
% PF	88.15	87.89	87.08	83.98	76.1	54.88	4.59
AMPS	419.84	386.61	337.77	262.82	194.3	138.55	111.23

TORQ(FL)#FT	883.19	TORQ(LR)%FL	208.53	TORQ(BD)%FL	282.56
AMPS(LR)	2154.3	PF AT START	0.34		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 4443 Lb-Ft Sq (187.05 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 21 seconds. Safe stall time at 100% voltage is 38 seconds cold, 25 seconds hot. Rotor inertia is 91.5 Lb-Ft Sq (3.85 Kg-meter Sq).

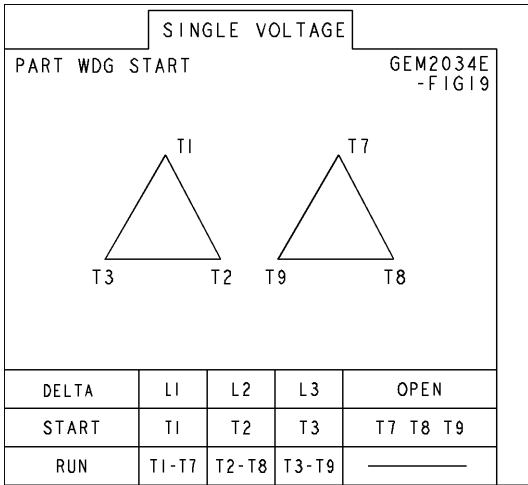
Open Circuit A-C:	0.849	Short Circuit D-C:	0.03
Short Circuit A-C:	0.038	X/R Ratio:	11.463
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

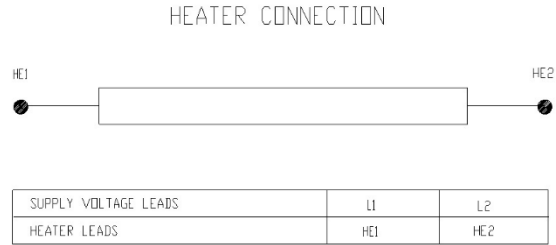


Marks:

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	179B9058G03

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

