



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

July 17, 2020

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

Model Number:	5KS444DAJ6037B
Catalog Number:	V3666
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG24
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:	5KS444DAJ6037B	Estimated Weight:	2350 Lbs
Outline Drawing:	148CB44VMJKCCAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG24	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	44BD1186AA	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L444TP20	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.8 %
Output Power:	150HP 111KW	Guaranteed Efficiency:	95.0 %
RPM:	1785	3/4 Load Efficiency:	95.5 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	48.6
Amps - FL:	174.0	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 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
50 HZ DATA: 125 HP, 380 VOLTS, 176 AMPS
SOUND POWER LEVEL 88 DB(A)



Additional Information:

4P, 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
BEARING LIFE 8760 HRS AT 14462 LB THRUST
BEARING LIFE 20413 HRS AT 11733 LB THRUST
PART WINDING START
CG:22.60 IN FROM P-BASE FACE, STAT DEF:= 0.004 IN
RCF: 3046 CPM
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.688, KEY = .375"



Performance Characteristics

1st Winding 1st Connection

Design: 44BD1186AA

Marks:

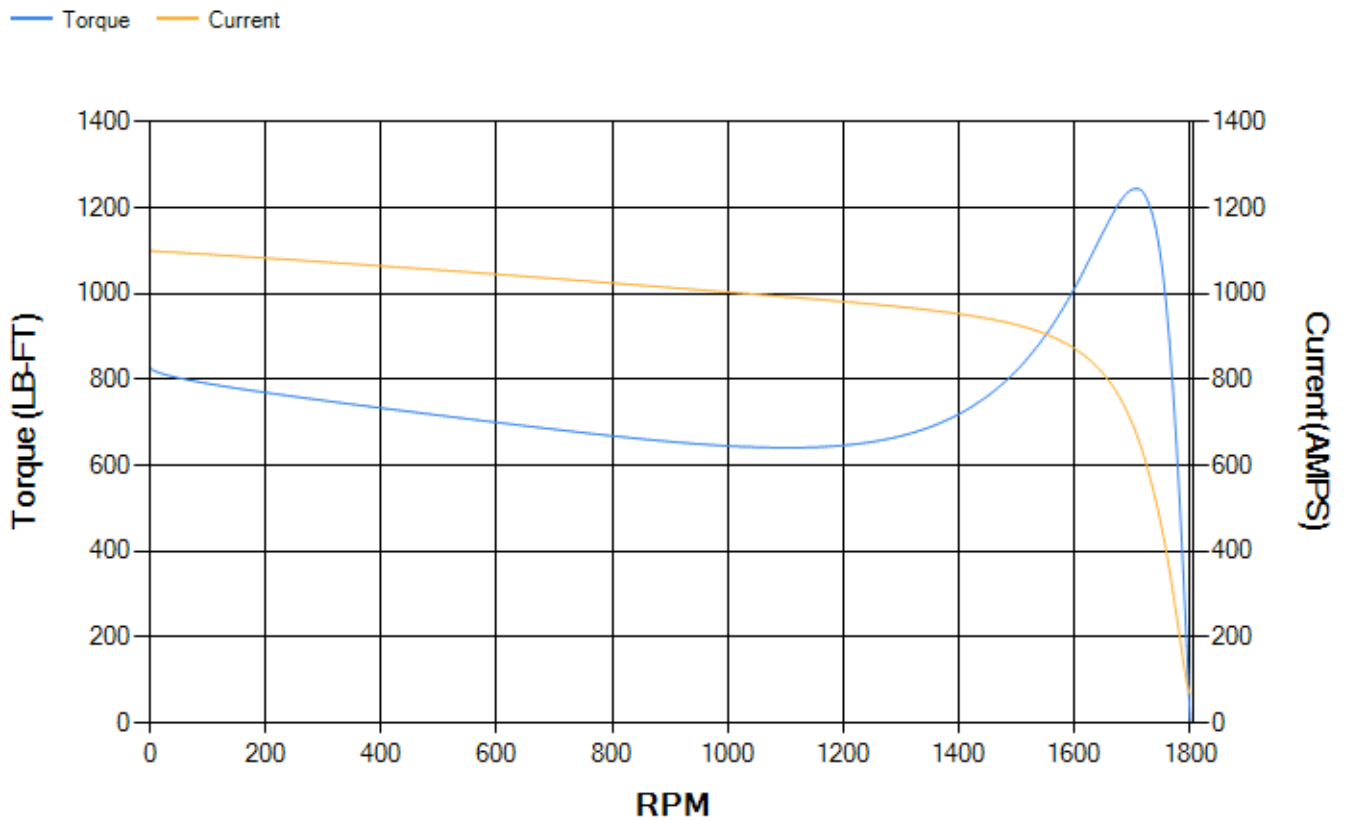
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	95.17	95.32	95.68	95.52	94.93	92.09	0.00
% PF	86.17	85.64	84.33	80.04	70.33	47.85	3.92
AMPS	213.99	197.79	173.99	137.72	105.13	79.65	67.83

TORQ(FL)#FT	441.19	TORQ(LR)%FL	188.15	TORQ(BD)%FL	281.84
AMPS(LR)	1100.34	PF AT START	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2829 Lb-Ft Sq (119.1 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 28 seconds. Safe stall time at 100% voltage is 47 seconds cold, 33 seconds hot. Rotor inertia is 50.83 Lb-Ft Sq (2.14 Kg-meter Sq).

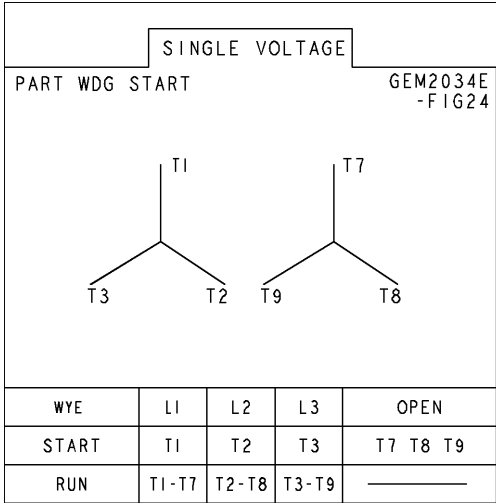
Open Circuit A-C:	0.773	Short Circuit D-C:	0.03
Short Circuit A-C:	0.044	X/R Ratio:	11.421
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)

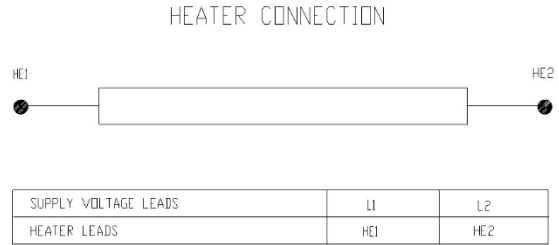


Marks:

Connection Diagram
GEM2034E-FIG24



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	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

