



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

August 27, 2020

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

Model Number:	5KS404DAJ6022D1
Catalog Number:	V4423
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG19
Outline Drawing:	148CB40VMHKCCA0001

Accessory Connection Diagrams

Bearing Thermocouple:	None	Heater:	3027JE-1C
RTD:	None	Thermistor:	None
Thermostat:	None	Winding Thermocouple:	None
Bearing RTD:	None		

Table of Contents

Specification	01
Performance Characteristics	02
Outline Drawing	03
Connection Drawing(s)	04
Spare parts	05

Marks:

MODEL NUMBER:	5KS404DAJ6022D1	Estimated Weight:	1120 Lbs
Outline Drawing:	148CB40VMHKCCAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG19	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	40BD1201AB	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L404TP16	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.4 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	94.5 %
RPM:	1785	3/4 Load Efficiency:	94.0 %
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	38.4
Amps - FL:	122.0	Power Factor:	81.5
Service Factor:	1.15	Bearing - DE:	6215C3
Alt Service Factor:	--	Bearing - ODE:	235A2532AA01

Enclosure is Weather Protected One

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP
HTR LDS HE1-HE2 115V 100W
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: 6 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 75 HP, 380 V, 50 HZ WITH
112.0 AMPS AND 1485 RPM AT 1.0 SF



Additional Information:

4P, VERT HOLLOW SHAFT HIGH THRUST (2D)
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 14609 LB THRUST
PART WINDING START
CG:18.50 IN FROM P-BASE FACE, STAT DEF:0.0032 IN
RCF:3240 CPM AT C/BOX SIDE, 3360 CPM AT
90 DEG FROM C/ BOX SIDE
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.501
SPECIAL BALANCE



Performance Characteristics

1st Winding 1st Connection

Design: 40BD1201AB

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.91	94.04	94.35	93.99	92.94	88.7	0.00
% PF	83.97	83.21	81.51	76.3	65.49	43.27	4.98
AMPS	148.36	137.54	121.7	97.87	76.88	60.96	53.55

TORQ(FL)#FT 294.32
AMPS(LR) 705.8

TORQ(LR)%FL 154.53
PF AT START 0.31

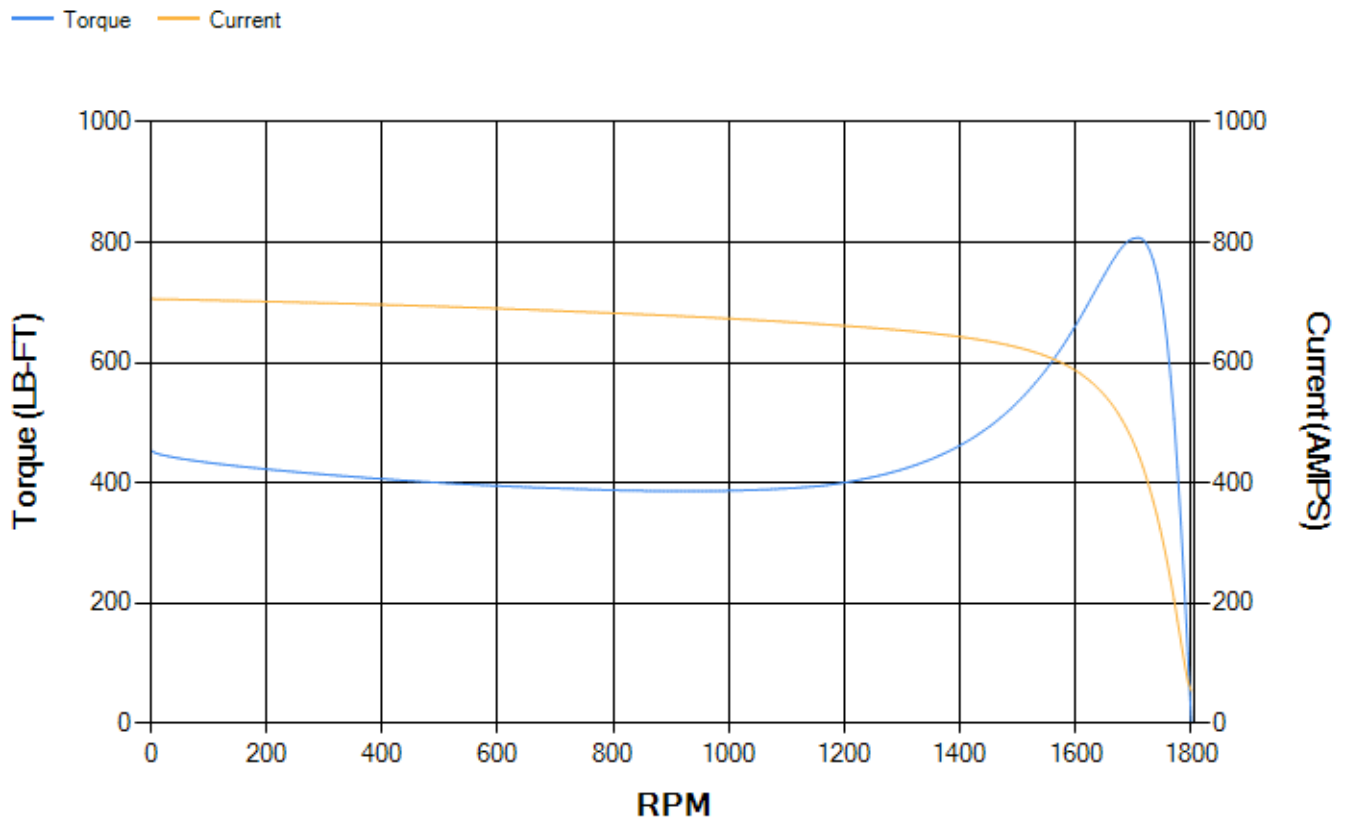
TORQ(BD)%FL 273.83

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2128 Lb-Ft Sq (89.59 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 69 seconds cold, 42 seconds hot. Rotor inertia is 19.14 Lb-Ft Sq (0.81 Kg-meter Sq).

Open Circuit A-C: 0.622
Short Circuit A-C: 0.043
Stator Slots: 72

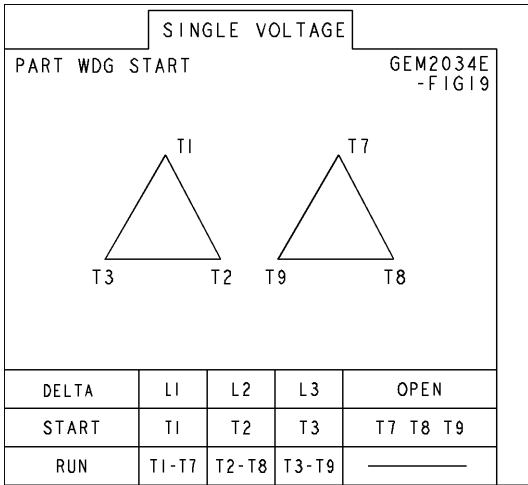
Short Circuit D-C: 0.025
X/R Ratio: 9.438
Rotor Slots: 58

Speed Torque Current Curve (First Connection, First Speed)

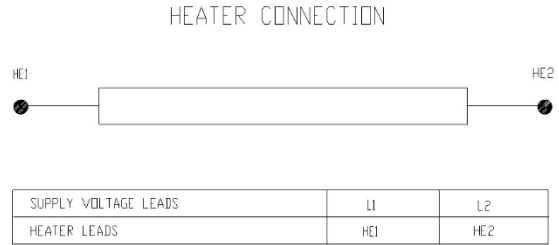


Marks:

Connection Diagram
GEM2034E-FIG19



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7306AC1	115E7310LJ1
Bearing	235A2513AL01	235A2532AA01
Slinger/Inproseal	235A2300HW1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1054AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	118D4408AD2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

