GE
Power Conversion

Product Information Packet

May 6, 2017

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

Model Number:	**5KS404DAJ6005B**
Catalog Number:	**V4422**
Instruction Manual:	GEK-95353
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	148CB40VMHKCCAA0001

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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imagination at work

Marks:

MODEL NUMBER:	**5KS404DAJ6005B**	**Estimated Weight:**	1160 Lbs
Outline Drawing:	148CB40VMHKCCAA0001	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG9	**Enclosure:**	WPI
Instruction Book:	GEK-95353	**Encl Construction:**	OPEN
Design Code:	40BD1118AB	**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:**	--
Voltage:	230/460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	33.3
Amps - FL:	242.0/121.0	**Power Factor:**	82.0
Service Factor:	1.15	**Bearing - DE:**	6215C3
Alt Service Factor:	--	**Bearing - ODE:**	235A2532AA01

Enclosure is Weather Protected One

Stamped Nameplate Notes:
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, 190/380V, 50 HZ WITH
220.0/110.0 AMPS AND 1490 RPM AT 1.0 SF

Additional Information:

4P, VERT HOLLOW SHAFT HIGH THRUST (2D)
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
CG:18.50 IN FROM P-BASE FACE,STAT DEF:0.0033 IN
RCF:3240 CPM AT C/BOX SIDE, 3360 CPM AT
90 DEG FROM C/ BOX SIDE
NON-REVERSE BALL CARRIER
COUPLING NOT INCLUDED IN BOM, WILL BE
ORDERED SEPERATELY
SPECIAL BALANCE

Performance Characteristics 1st Winding 1st Connection **Design: 40BD1118AB**

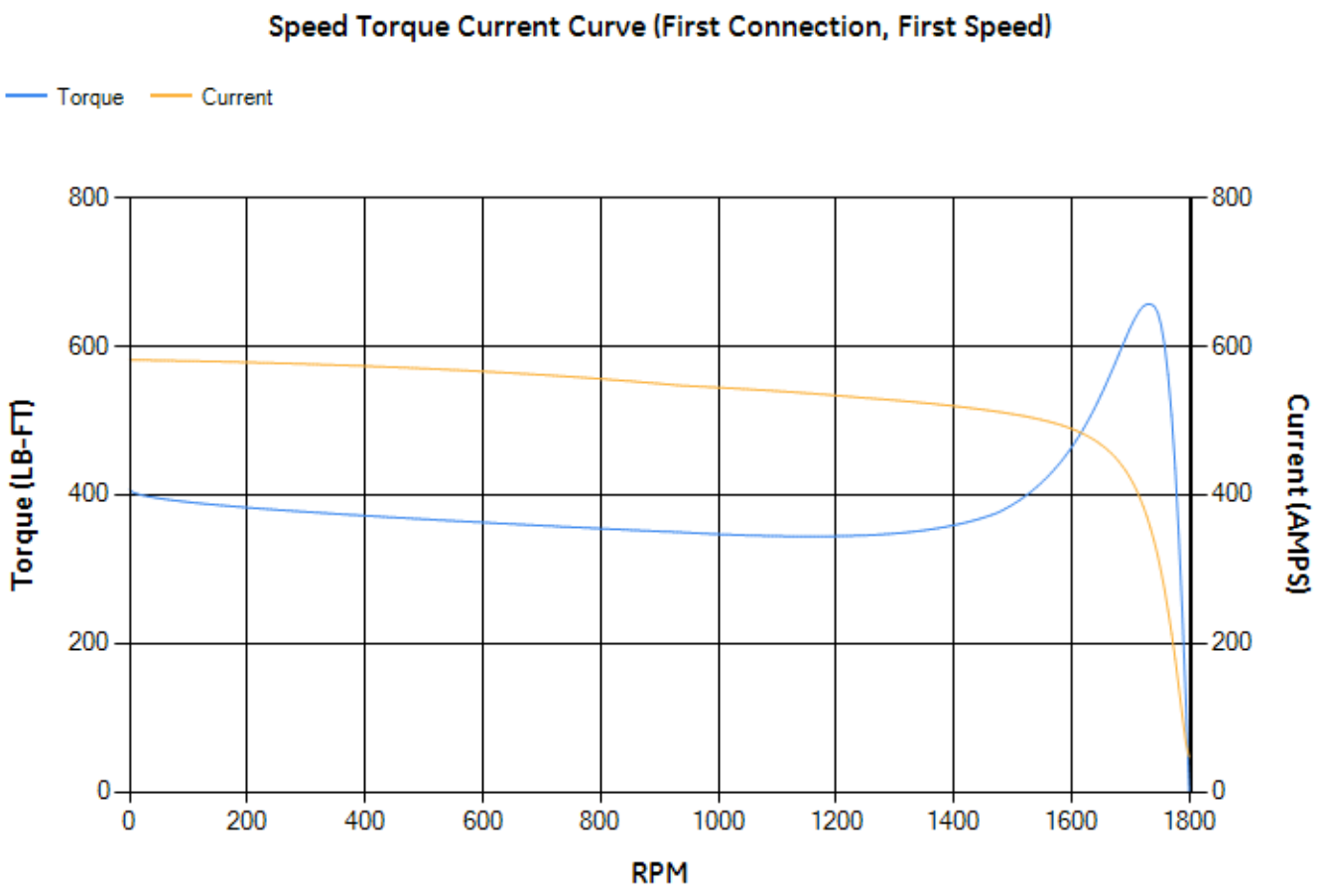
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.41	94.54	94.84	94.46	93.43	89.37	0.00
% PF	83.22	82.93	81.94	78.11	68.96	47.58	5.45
AMPS	148.9	137.29	120.44	95.13	72.63	55.03	46.47

TORQ(FL)#FT	294.02	**TORQ(LR)%FL**	138.49	**TORQ(BD)%FL**	223.1
AMPS(LR)	581.69	**PF AT START**	0.29		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 3062 Lb-Ft Sq (128.91 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 62 seconds. Safe stall time at 100% voltage is 106 seconds cold, 75 seconds hot. Rotor inertia is 22.56 Lb-Ft Sq (0.95 Kg-meter Sq).

Open Circuit A-C:	0.83	**Short Circuit D-C:**	0.037
Short Circuit A-C:	0.056	**X/R Ratio:**	13.789
Stator Slots:	72	**Rotor Slots:**	58



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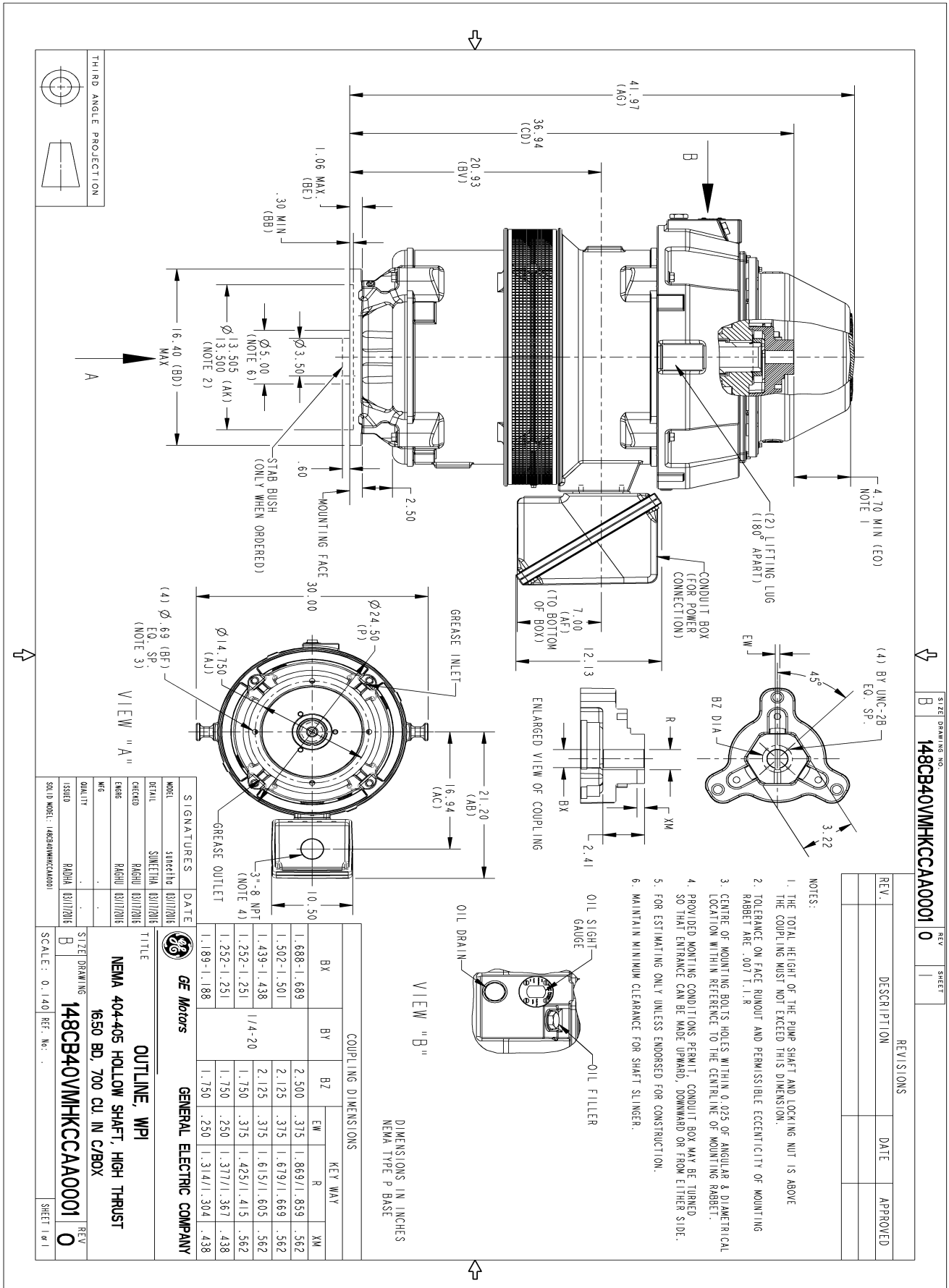
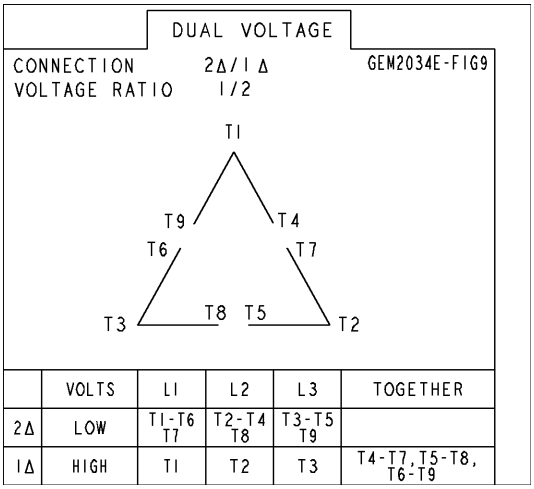

148CB40VMHKCCAA0001
REVISIONS
DESCRIPTION
DATE
APPROVED
NOTES:
1. THE TOTAL HEIGHT OF THE PUMP SHAFT AND LOCKING NUT IS ABOVE THE COUPLING MUST NOT EXCEED THIS DIMENSION.
2. TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTICITY OF MOUNTING RABBET ARE .007 T.I.R
3. CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRELINE OF MOUNTING RABBET.
4. PROVIDED MONTING 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
4.70 MIN (EO) NOTE 1
(2) LIFTING LUG (180° APART)
CONDUIT BOX (FOR POWER CONNECTION)
MOUNTING FACE
STAB BUSH (ONLY WHEN ORDERED)
41.97 (AG)
36.94 (CD)
20.93 (BV)
1.06 MAX (BE)
.30 MIN (BB)
16.40 (BD) MAX
Ø5.00 (NOTE 6)
Ø13.505 13.500 (AK) (NOTE 2)
Ø3.50
.60
2.50
7.00 (AF) (TO BOTTOM OF BOX)
12.13
(4) BY UNC-2B EQ. SP.
BZ DIA
EW
45°
3.22
ENLARGED VIEW OF COUPLING
R
BX
XM
2.41
VIEW "A"
(4) Ø.69 (BF) EQ. SP. (NOTE 3)
Ø14.750 (AJ)
Ø24.50 (P)
30.00
GREASE INLET
GREASE OUTLET
3"-8 NPT (NOTE 4)
16.94 (AC)
21.20 (AB)
10.50
VIEW "B"
OIL SIGHT GAUGE
OIL FILLER
OIL DRAIN
COUPLING DIMENSIONS
BX
BY
BZ
KEY WAY
EW
R
XM
1/4-20
1.688-1.689
1.502-1.501
1.439-1.438
1.252-1.251
1.252-1.251
1.189-1.188
2.500
2.125
2.125
1.750
1.750
1.750
.375
.375
.375
.375
.250
.250
1.869/1.859
1.679/1.669
1.615/1.605
1.425/1.415
1.377/1.367
1.314/1.304
.562
.562
.562
.562
.562
.438
.438
SIGNATURES
DATE
MODEL
DETAIL
CHECKED
ENGRG
MFG
QUALITY
ISSUED
SOLID MODEL: 148CB40VMHKCCAA0001
sureetha 03/17/2016
SUREETHA 03/17/2016
RAGHU 03/17/2016
RAGHU 03/17/2016
RADHA 03/17/2016
GE Motors
GENERAL ELECTRIC COMPANY
TITLE
OUTLINE, WPI
NEMA 404-405 HOLLOW SHAFT, HIGH THRUST
16.50 BD, 700 CU. IN C/BOX
SIZE B
DRAWING
148CB40VMHKCCAA0001
REV O
SCALE: 0.140
REF No:
SHEET 1 of 1
THIRD ANGLE PROJECTION

Connection Diagram
GEM2034E-FIG9



	VOLTS	L1	L2	L3	TOGETHER
2Δ	LOW	T1-T6 T7	T2-T4 T8	T3-T5 T9	
1Δ	HIGH	T1	T2	T3	T4-T7, T5-T8, T6-T9

Heater Connection
3027JE-1C

SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7306AC1	115E7310LA1
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	