GE
Power Conversion

Product Information Packet

June 1, 2017

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

Model Number:	**5KS324SAJ6005A**
Catalog Number:	**V4711**
Instruction Manual:	GEK-95351
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	148CB32TMHKBCAA0001

Accessory Connection Diagrams

Bearing Thermocouple:	None	**Heater:**	3027JE-1C
RTD:	None	**Thermistor:**	None
Thermostat:	3027JE-2A	**Winding Thermocouple:**	None
Bearing RTD:	None		

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imagination at work

Marks:

MODEL NUMBER:	**5KS324SAJ6005A**	**Estimated Weight:**	1047 Lbs
Outline Drawing:	148CB32TMHKBCAA0001	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG9	**Enclosure:**	TEFC
Instruction Book:	GEK-95351	**Encl Construction:**	X$D
Design Code:	32BD1182AC	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L324TP16	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	94.1 %
Output Power:	40HP 29.6KW	**Guaranteed Efficiency:**	93.6 %
RPM:	1780	**3/4 Load Efficiency:**	94.3 %
Voltage:	230/460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	15.2
Amps - FL:	99.4/49.7	**Power Factor:**	80.0
Service Factor:	1.15	**Bearing - DE:**	6212C3
Alt Service Factor:	--	**Bearing - ODE:**	235A2523AD01

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:
HTR LDS HE1-HE2 115V 100W
ROT CCW FACING ODE LEAD/PH SEQ 1-2-3/1-2-3
THERMOSTAT LEADS TB1-TB2 TRIP
INVERTER DUTY PER NEMA MG1 PART 31
ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
VAR TORQUE RANGE 5-60 HZ
SUITABLE FOR 30 HP, 190/380V, 50 HZ WITH
90.8/45.4 AMPS AND 1480 RPM AT 1.00 SF

Additional Information:

4 POLE,VERT HOLLOW SHAFT HIGH THRUST (1D)
SPECIAL BALANCE
346 CU IN - 3.00" NPT
BEARING LIFE 8760 HRS AT 5700 LB THRUST
OIL RESISTANT SLEEVING ON LEADS
N.C. TRIP TSTAT LDS TO MAIN CONDUIT BOX
115V HTR LDS TO MAIN CONDUIT BOX
COUPLING NOT INCLUDED IN BOM, WILL BE
ORDERED SEPERATELY
SHAFT GROUNDING RING MOUNTED ON DE BRG CAP
RCF: 3210 CPM AT C/BOX SIDE, 3510 CPM AT
90 DEG FROM C/ BOX SIDE
CG: 17.55 IN FROM P-BASE FACE

Performance Characteristics 1st Winding 1st Connection **Design: 32BD1182AC**

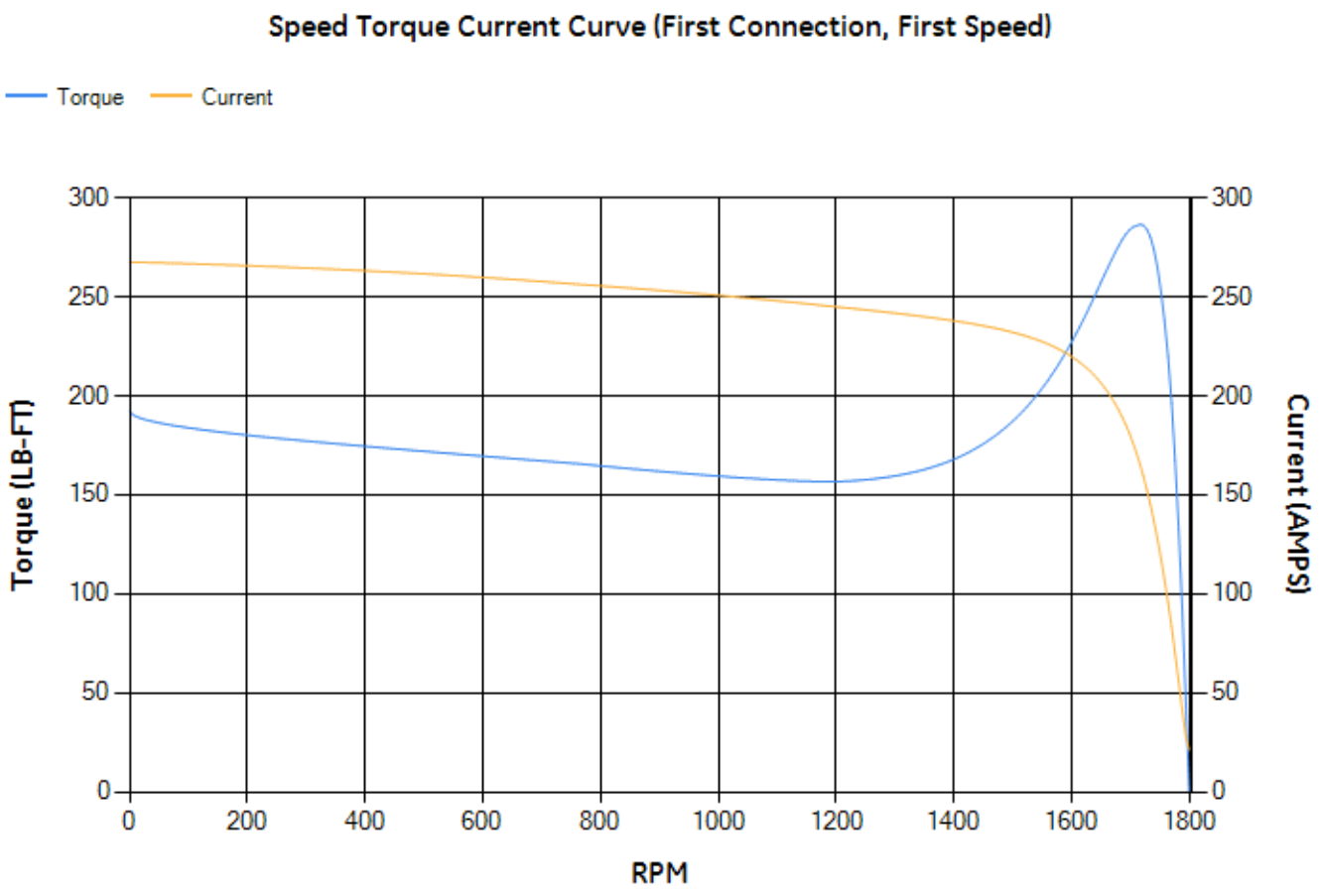
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	92.97	93.23	93.71	93.61	92.82	88.93	0.00
% PF	82.22	81.66	80.24	75.46	65.09	43.2	4.62
AMPS	61.22	56.55	49.67	39.75	30.98	24.36	21.15

TORQ(FL)#FT	118.11	**TORQ(LR)%FL**	162.86	**TORQ(BD)%FL**	241.63
AMPS(LR)	267.58	**PF AT START**	0.33		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 963 Lb-Ft Sq (40.54 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 40 seconds. Safe stall time at 100% voltage is 87 seconds cold, 48 seconds hot. Rotor inertia is 7.01 Lb-Ft Sq (0.3 Kg-meter Sq).

Open Circuit A-C:	0.483	**Short Circuit D-C:**	0.022
Short Circuit A-C:	0.032	**X/R Ratio:**	8.459
Stator Slots:	48	**Rotor Slots:**	38



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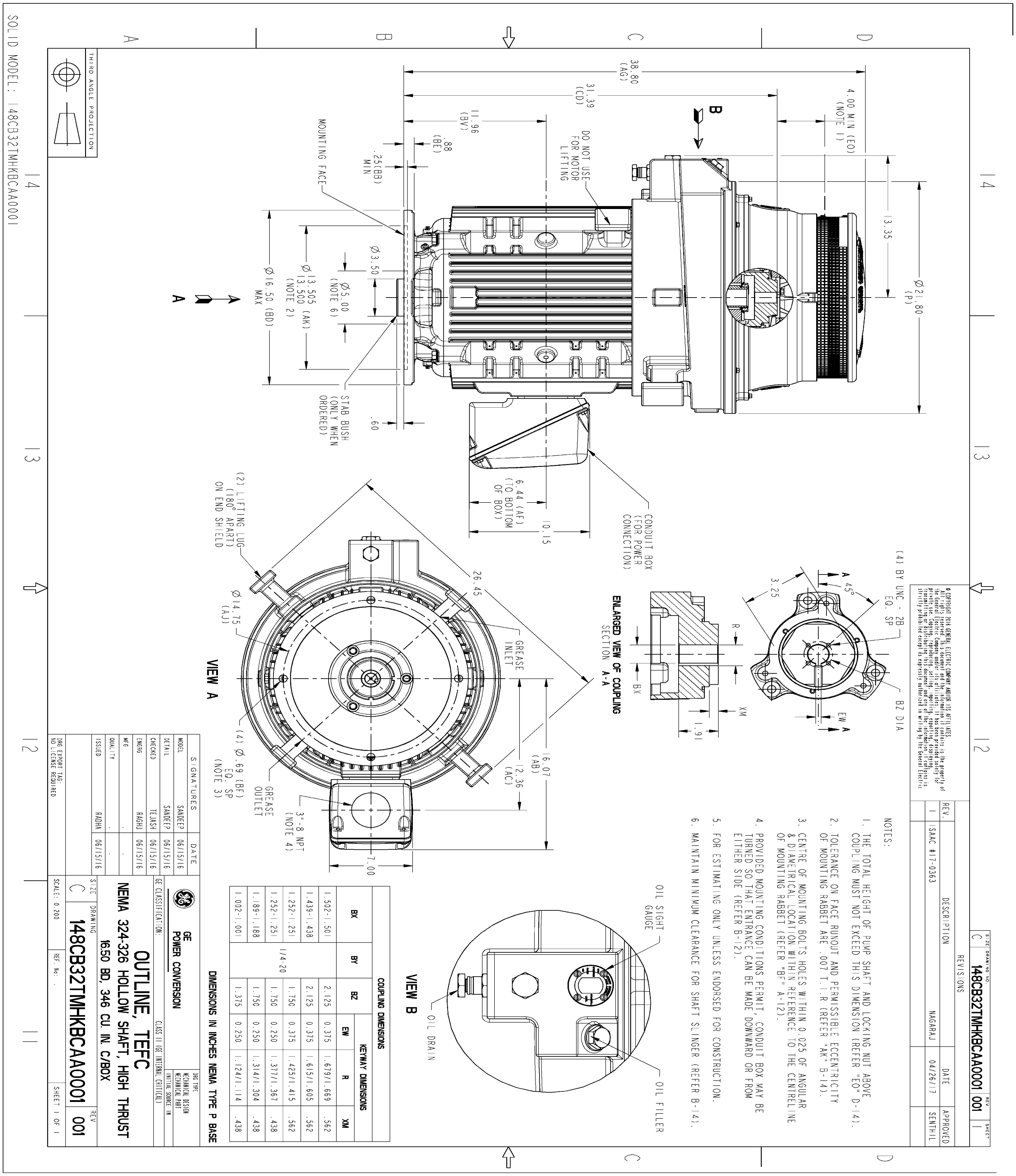

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SIZE C DRAWING NO. 148CB32TMHKBCAA0001 REV 001 SHEET 1

REVISIONS

REV.	DESCRIPTION		DATE	APPROVED
1	ISAAC #17-0363	NAGARAJ	04/26/17	SENTHIL

NOTES:

1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION (REFER "EO" D-14).
2. TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBET ARE .007 T.I.R (REFER "AK" B-14).
3. CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRELINE OF MOUNTING RABBET (REFER "BF" A-12).
4. PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE DOWNWARD OR FROM EITHER SIDE (REFER B-12).
5. FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
6. MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER (REFER B-14).

COUPLING DIMENSIONS

BX	BY	BZ	KEYWAY DIMENSIONS EW	R	XM
1.502-1.501	1/4-20	2.125	0.375	1.679/1.669	.562
1.439-1.438		2.125	0.375	1.615/1.605	.562
1.252-1.251		1.750	0.375	1.425/1.415	.562
1.252-1.251		1.750	0.250	1.377/1.367	.438
1.189-1.188		1.750	0.250	1.314/1.304	.438
1.002-1.001		1.375	0.250	1.124/1.114	.438

DIMENSIONS IN INCHES NEMA TYPE P BASE

SIGNATURES		DATE
MODEL	SANDEEP	06/15/16
DETAIL	SANDEEP	06/15/16
CHECKED	TEJASH	06/15/16
ENGRG	RAGHU	06/15/16
MFG	.	.
QUALITY	.	.
ISSUED	RADHA	06/15/16

DRG EXPORT TAG: NO LICENSE REQUIRED

GE POWER CONVERSION

DRG TYPE MECHANICAL DESIGN MECHANICAL PART INITIAL SOURCE IN

GE CLASSIFICATION: CLASS II (GE INTERNAL CRITICAL)

OUTLINE, TEFC

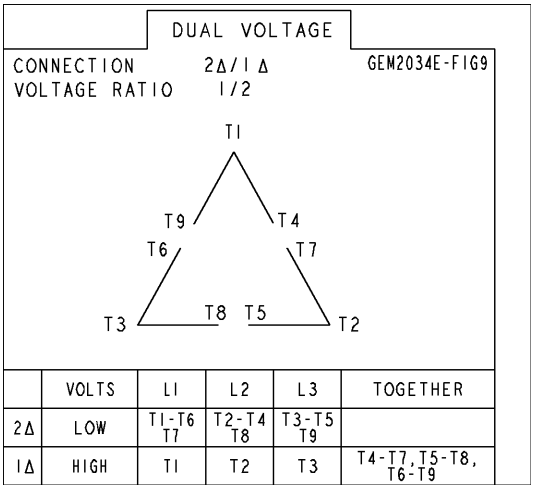
NEMA 324-326 HOLLOW SHAFT, HIGH THRUST

16.50 BD, 346 CU. IN. C/BOX

SIZE C DRAWING 148CB32TMHKBCAA0001 REV 001

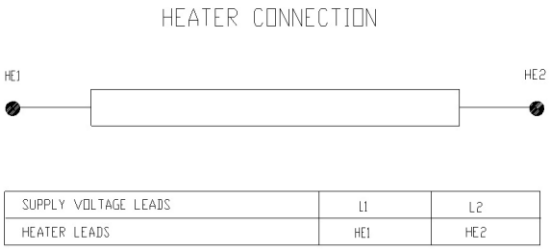
SCALE: 0.200 REF. No: . SHEET 1 OF 1

Connection Diagram
GEM2034E-FIG9



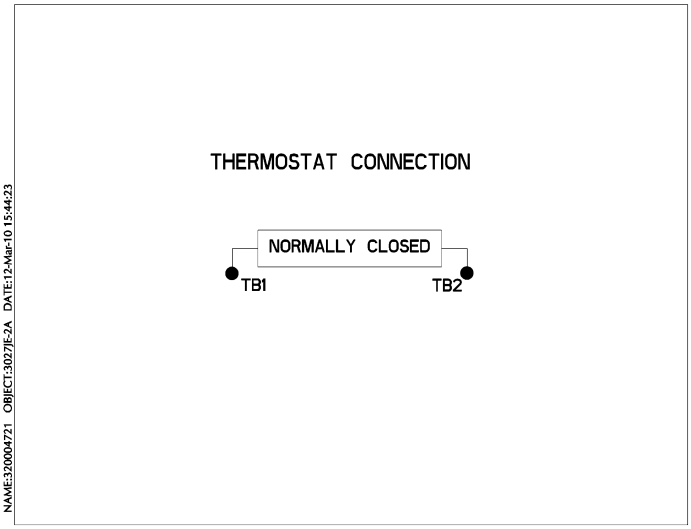
	VOLTS	L1	L2	L3	TOGETHER
2Δ	LOW	T1-T6 T7	T2-T4 T8	T3-T5 T9	
1Δ	HIGH	T1	T2	T3	T4-T7, T5-T8, T6-T9

Heater Connection
3027JE-1C



SUPPLY VOLTAGE LEADS	L1	L2
HEATER LEADS	HE1	HE2

Thermostat Connection
3027JE-2A



NAME:320004721 OBJECT:3027JE-2A DATE:12-Mar-10 15:44:23

End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8205AA1	115E8208LA1
Bearing	235A2509BE01	235A2523AD01
Slinger/Inproseal	235A2300FM1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	153B1887G02
Fan Cover	128D6846AA1

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	149C4429AA2

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	