

# Product Information Packet

May 6, 2017

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

<b>Model Number:</b>	<b>5KS324DAJ6008B</b>
<b>Catalog Number:</b>	<b>V4414</b>
<b>Instruction Manual:</b>	GEK-95353
<b>Connection Diagram:</b>	GEM2034E-FIG19
<b>Outline Drawing:</b>	148CB32VMHKBCAA0001

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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**Marks:**

<b>MODEL NUMBER:</b>	<b>5KS324DAJ6008B</b>	<b>Estimated Weight:</b>	690 Lbs
<b>Outline Drawing:</b>	148CB32VMHKBCAA0001	<b>Time Rating:</b>	CONT
<b>Connection Diagram:</b>	GEM2034E-FIG19	<b>Enclosure:</b>	WPI
<b>Instruction Book:</b>	GEK-95353	<b>Encl Construction:</b>	OPEN
<b>Design Code:</b>	32BD1241AA	<b>Ambient Max(°C):</b>	40
<b>Type:</b>	KS	<b>Alt Ambient Max(°C):</b>	--
<b>Frame:</b>	L324TP16	<b>Insulation Class:</b>	H
<b>Phases:</b>	3	<b>NEMA Design:</b>	B
<b>Poles:</b>	4	<b>Nominal Efficiency:</b>	94.1 %
<b>Output Power:</b>	40HP 29.6KW	<b>Guaranteed Efficiency:</b>	93.0
<b>RPM:</b>	1780	<b>3/4 Load Efficiency:</b>	--
<b>Voltage:</b>	460	<b>KVA Code:</b>	G
<b>Hertz:</b>	60	<b>Max KVAR:</b>	15.7
<b>Amps - FL:</b>	50.6	<b>Power Factor:</b>	79.0
<b>Service Factor:</b>	1.15	<b>Bearing - DE:</b>	6212C3
<b>Alt Service Factor:</b>	--	<b>Bearing - ODE:</b>	235A2523AD01

**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: 2.1 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 30 HP, 380V, 50 HZ WITH  
 46.0 AMPS AND 1480 RPM AT 1.0 SF

**Additional Information:**

4P, VERT HOLLOW SHAFT HIGH THRUST (1D)  
 SPECIAL BALANCE  
 346 CU IN - 3.00" NPT  
 OIL RESISTANT SLEEVING ON LEADS  
 115V HTR LDS TO MAIN CONDUIT BOX  
 COUPLING NOT INCLUDED IN BOM, WILL BE  
 ORDERED SEPERATELY  
 BEARING LIFE 8760 HRS AT 6324 LB THRUST  
 PART WINDING START  
 CG:13.86 IN FROM P-BASE FACE,STAT DEF:0.0025 IN  
 RCF:3600 CPM AT C/BOX SIDE, 3870 CPM AT  
 90 DEG FROM C/ BOX SIDE  
 NON-REVERSE BALL CARRIER

**Performance Characteristics**

1st Winding 1st Connection

**Design: 32BD1241AA**

**Marks:**

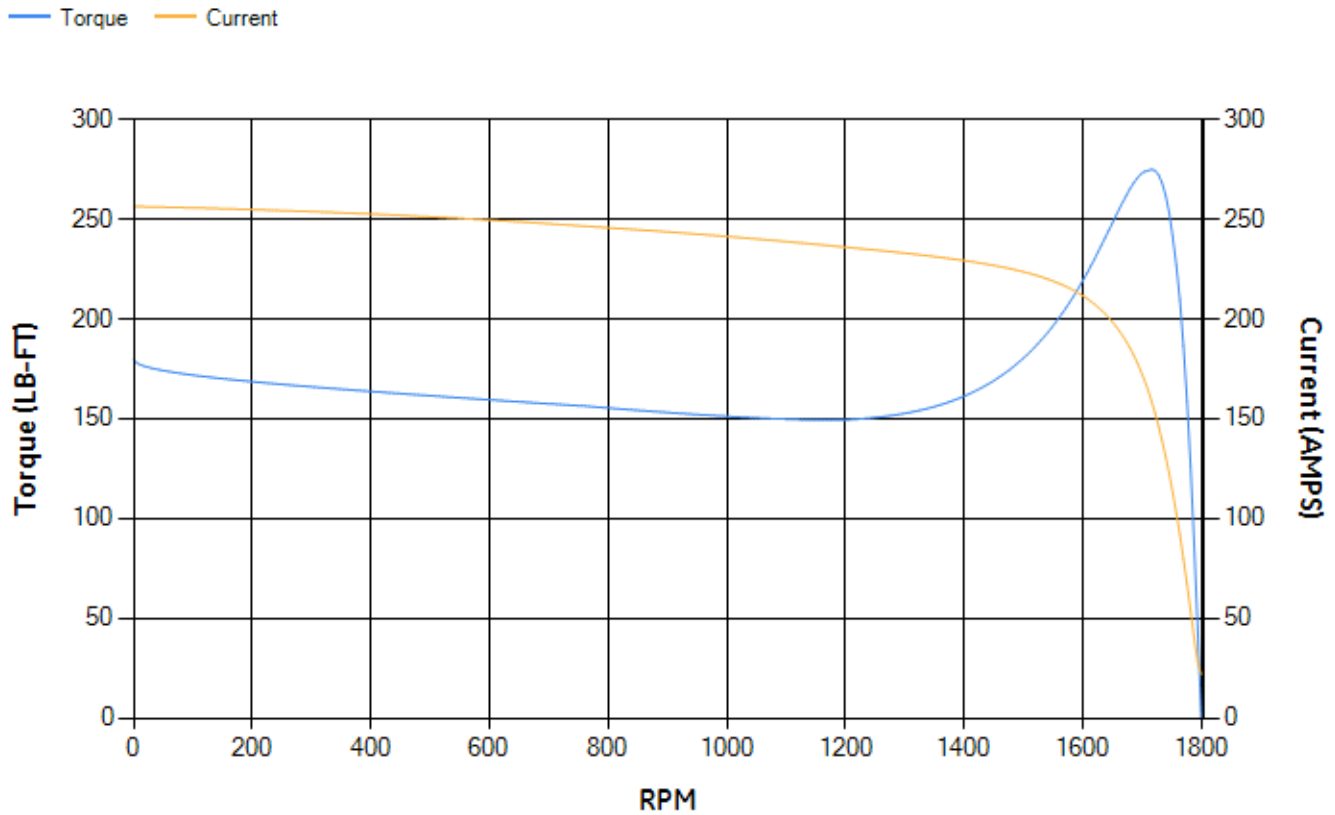
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.13	93.41	93.93	93.92	93.29	89.79	0.00
% PF	81.26	80.69	79.23	74.3	63.68	41.7	4.06
AMPS	61.84	57.12	50.19	40.24	31.51	25	21.92

<b>TORQ(FL)#FT</b>	118.03	<b>TORQ(LR)%FL</b>	152.25	<b>TORQ(BD)%FL</b>	232
<b>AMPS(LR)</b>	256.37	<b>PF AT START</b>	0.33		

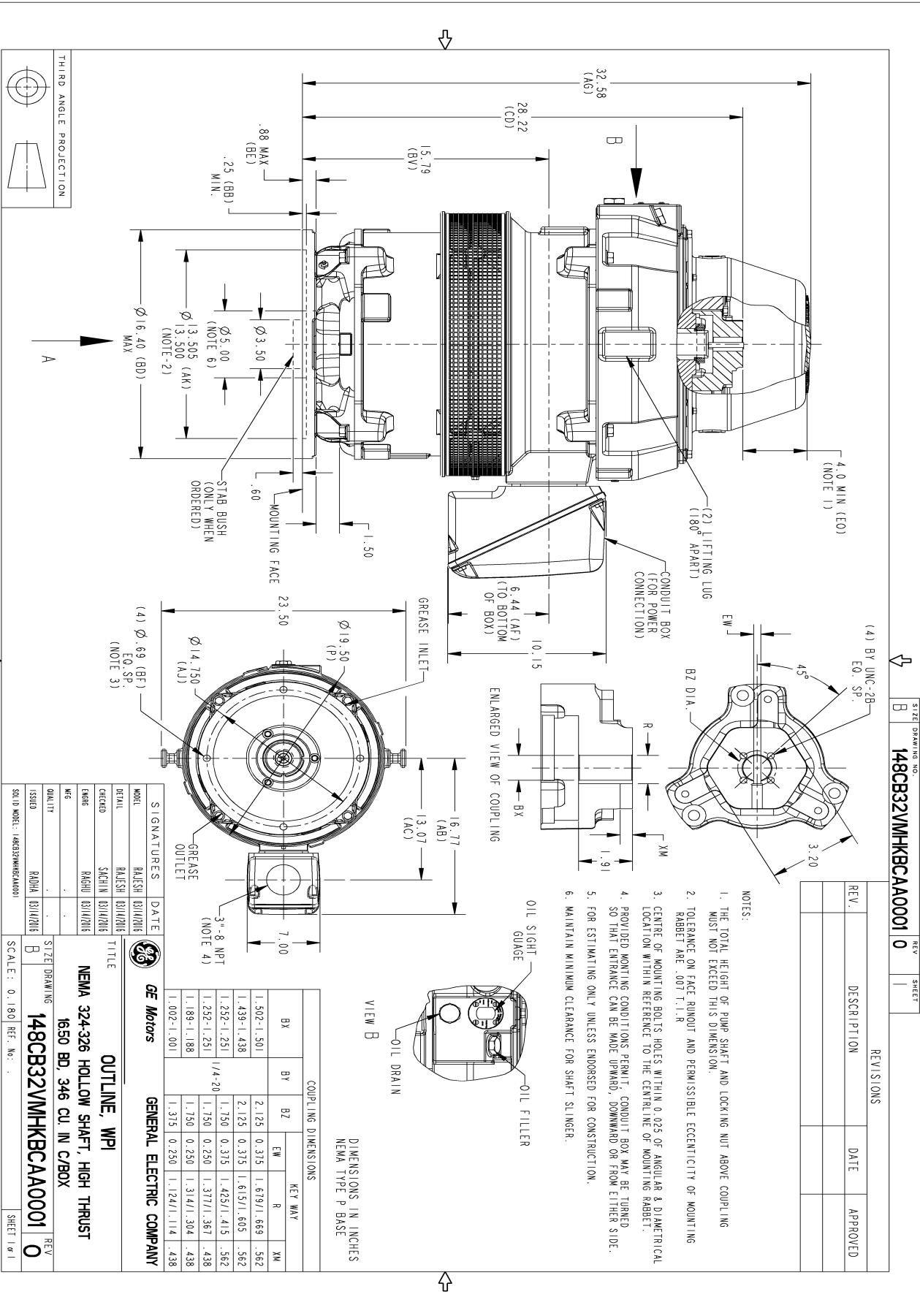
This motor is capable of two cold or one hot start with a maximum connected load inertia of 1146 Lb-Ft Sq (48.25 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 51 seconds. Safe stall time at 100% voltage is 87 seconds cold, 62 seconds hot. Rotor inertia is 6.38 Lb-Ft Sq (0.27 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.497	<b>Short Circuit D-C:</b>	0.023
<b>Short Circuit A-C:</b>	0.035	<b>X/R Ratio:</b>	8.686
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	38

**Speed Torque Current Curve (First Connection, First Speed)**



Marks:



REV. DESCRIPTION DATE APPROVED

- NOTES:
1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
  2. TOLERANCE ON FACE RIMOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 T.I.R.
  3. CENTRE OF MOUNTING BOLTS WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRALINE OF MOUNTING RABBIT.
  4. PROVIDED MOUNTING 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.

VIEW B

OIL SIGHT GAUGE

OIL FILLER

OIL DRAIN

ENLARGED VIEW OF COUPLING

VIEW B

DIMENSIONS IN INCHES  
NEMA TYPE P BASE

COUPLING DIMENSIONS		KEY WAY			
BX	BY	BZ	EW	R	XM
1.502-1.501	2.125	0.315	1.579/1.669	.562	.562
1.439-1.438	2.125	0.315	1.615/1.605	.562	.562
1.292-1.291	1.750	0.315	1.425/1.415	.562	.562
1.252-1.251	1/4-20				
1.189-1.188	1.750	0.250	1.377/1.367	.438	.438
1.002-1.001	1.750	0.250	1.314/1.304	.438	.438
	1.315	0.250	1.124/1.114	.438	.438

SIGNATURES DATE

GE Motors GENERAL ELECTRIC COMPANY

MODEL RAJESH 03/14/2016

DETAIL RAJESH 03/14/2016

CHECKED SACHIN 03/14/2016

ENGR RAGHU 03/14/2016

WGT

QUALITY

ISSUED RAJAH 03/14/2016

SOI ID MODEL: 148CB32VMHKBCAA0001

TITLE

**OUTLINE, WPI**

**NEMA 324-326 HOLLOW SHAFT, HIGH THRUST**

1650 BD, 346 CU IN C/BOX

148CB32VMHKBCAA0001

SCALE: 0.180 REF. No.

SHEET 1 OF 1

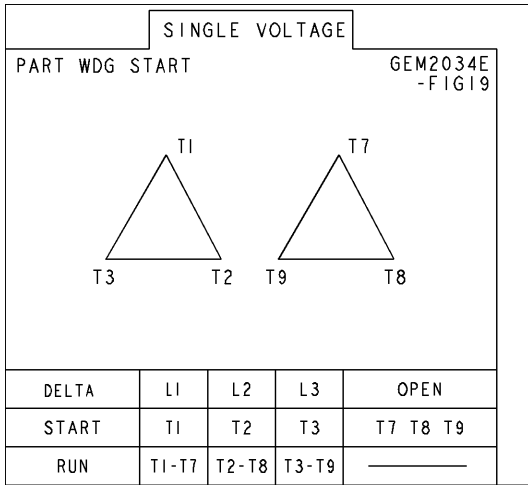
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REV SHEET

REVISIONS

Marks:

**Connection Diagram**  
GEM2034E-FIG19



**Heater Connection**  
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7205AA1	115E7208LA1
Bearing	235A2509BE01	235A2523AD01
Slinger/Inproseal	235A2300FM1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1052AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

