

Product Information Packet

January 13, 2017

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

Model Number:	5KS364SAJ208A
Catalog Number:	V4990
Instruction Manual:	GEK-95655
Connection Diagram:	GEM2034E-FIG7
Outline Drawing:	148CB36TLHNBCAA0002

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:	5KS364SAJ208A	Estimated Weight:	870 Lbs
Outline Drawing:	148CB36TLHNBCAA0002	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG7	Enclosure:	TEFC
Instruction Book:	GEK-95655	Encl Construction:	X\$D
Design Code:	36BD1188A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L364HP16	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	95.0 %
Output Power:	60HP 44.4KW	Guaranteed Efficiency:	94.1
RPM:	1780	3/4 Load Efficiency:	95.2
Voltage:	460	KVA Code:	G
Hertz:	60	Max KVAR:	20.9
Amps - FL:	71.7	Power Factor:	82.5
Service Factor:	1.15	Bearing - DE:	6312C3
Alt Service Factor:	--	Bearing - ODE:	6314ZC3

Enclosure is Totally Enclosed Fan-Cooled

Stamped Nameplate Notes:

HTR LDS HE1-HE2 115V 100W
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:1.0SF 40C AMBIENT
 VAR TORQUE RANGE 0-60 HZ
 SUITABLE FOR 50 HP, 380V, 50 HZ WITH
 71.8 AMPS AND 1480 RPM AT 1.00 SF
 API 610 12TH EDITION SHAFT DIMENSIONS

Additional Information:

4 POLE, VERT SOLID SHAFT NORMAL THRUST
 346 CU IN - 3.00" NPT
 INPRO SEAL ON UPPER END
 OIL RESISTANT SLEEVING ON LEADS
 115V HTR LDS TO MAIN CONDUIT BOX
 BEARING LIFE 8760 HOURS AT 1305 LB THRUST
 BRASS TEE DRAIN
 RCF: 3210 CPM AT C/BOX SIDE, 3510 CPM AT
 90 DEG FROM C/ BOX SIDE
 CG: 12.60 IN FROM P-BASE FACE

Performance Characteristics

1st Winding 1st Connection

Design: 36BD1188A

Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.38	94.62	95.12	95.19	94.85	92.38	0.00
% PF	84.34	83.77	82.38	77.77	67.55	44.92	3.18
AMPS	88.19	81.47	71.5	56.89	43.82	33.83	29.16

TORQ(FL)#FT 176.81
AMPS(LR) 412.9

TORQ(LR)%FL 160.18
PF AT START 0.31

TORQ(BD)%FL 260.31

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1190 Lb-Ft Sq (50.1 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 33 seconds. Safe stall time at 100% voltage is 76 seconds cold, 39 seconds hot. Rotor inertia is 12.22 Lb-Ft Sq (0.51 Kg-meter Sq).

Open Circuit A-C: 0.602

Short Circuit D-C: 0.024

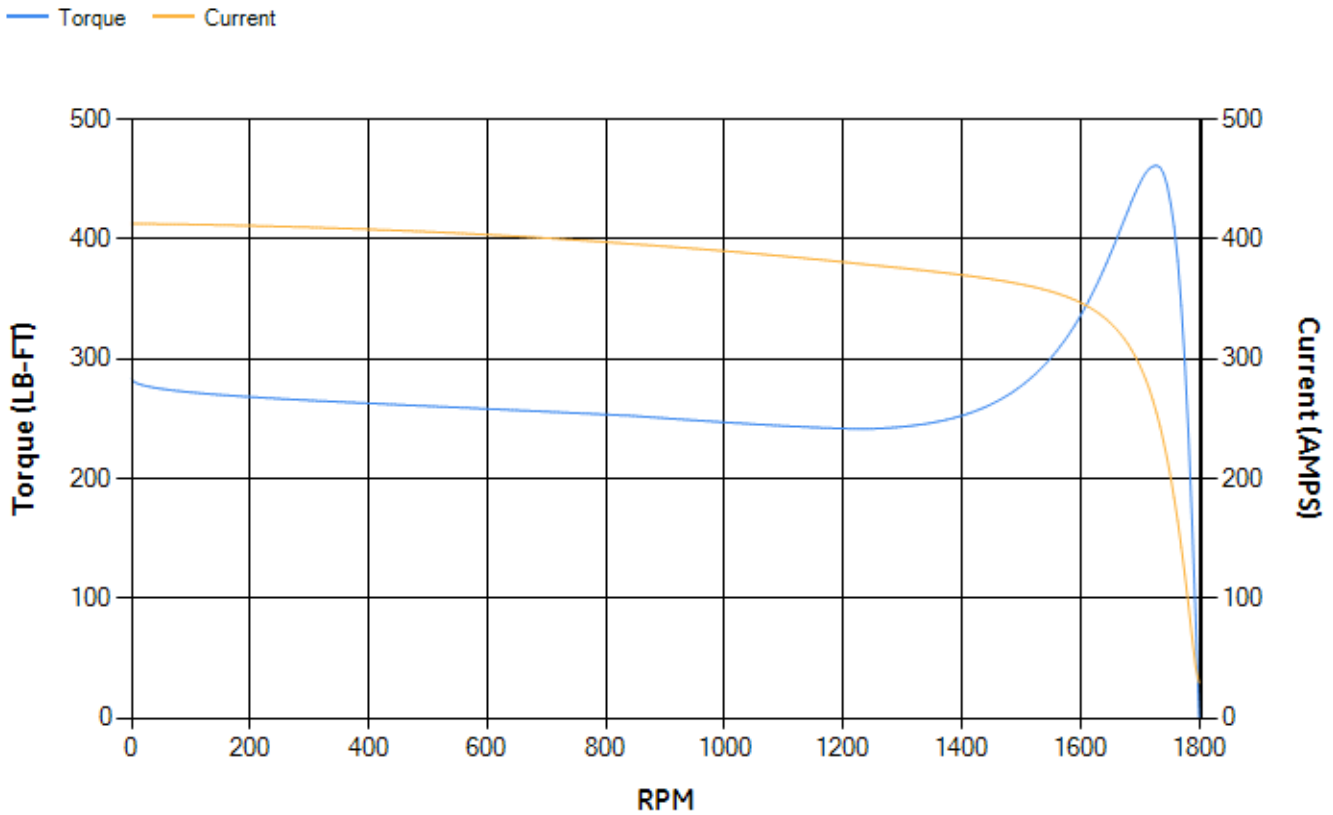
Short Circuit A-C: 0.035

X/R Ratio: 9.207

Stator Slots: 60

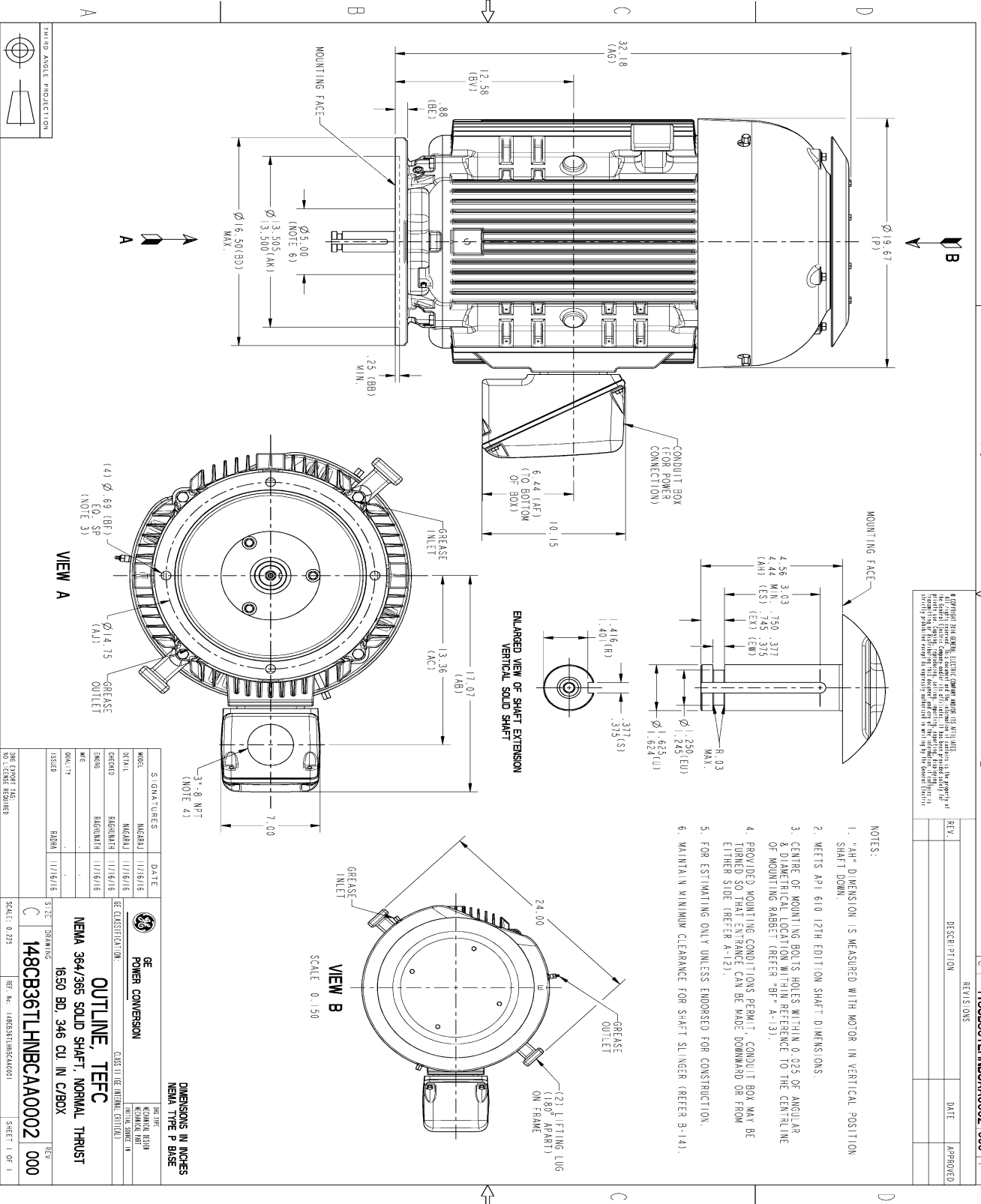
Rotor Slots: 50

Speed Torque Current Curve (First Connection, First Speed)



Marks:

SOLID MODEL: 148CB36TLHNBCAA0002



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REV.	DESCRIPTION	DATE	APPROVED

NOTES:

- "A" DIMENSION IS MEASURED WITH MOTOR IN VERTICAL POSITION SHAFT DOWN.
- MEETS API 610 12TH EDITION SHAFT DIMENSIONS.
- CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIRECTIONAL LOCATION WITHIN REFERENCE TO THE CENTRALLINE OF MOUNTING HUBBLE (REFER "B" A-13).
- PROVIDED MOUNTING CONDITIONS PERMIT CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE DOWNWARD OR FROM EITHER SIDE (REFER A-12).
- FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
- MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER (REFER B-14).

DIMENSIONS IN INCHES
NEMA TYPE P BASE

SIGNATURES	DATE	REV	DESCRIPTION
DESIGNER	11/16/16		
CHECKED	11/16/16		
DATE	11/16/16		
BY	11/16/16		
ISSUED	11/16/16		

GE POWER CONVERSION

NEMA 364/365 SOLID SHAFT, NORMAL THRUST
1650 BD, 346 CU IN C/BOX

148CB36TLHNBCAA0002

SCALE: 0.25

SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG7



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E8258BA1	115E4250LK1
Bearing	235A2509AR01	235A2616AA01
Slinger/Inproseal	235A2300FM1	235A4575GS3

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	159C7100AA1
Fan Cover	128D6810AD1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	