GE INDUSTRIAL MOTORS
a WOLONG company

Product Technical Information

July 15, 2020

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

Model Number:	**5KS444DAJ6008D**
Catalog Number:	**V4426**
Instruction Manual:	GEI-M1045
Connection Diagram:	GEM2034E-FIG24
Outline Drawing:	148CB44VMHKCCAA0001

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:	**5KS444DAJ6008D**	**Estimated Weight:**	2300 Lbs
Outline Drawing:	148CB44VMHKCCAA0001	**Time Rating:**	CONT
Connection Diagram:	GEM2034E-FIG24	**Enclosure:**	WPI
Instruction Book:	GEI-M1045	**Encl Construction:**	OPEN
Design Code:	44BD1228A	**Ambient Max(°C):**	40
Type:	KS	**Alt Ambient Max(°C):**	--
Frame:	L444TP16	**Insulation Class:**	H
Phases:	3	**NEMA Design:**	B
Poles:	4	**Nominal Efficiency:**	95.8 %
Output Power:	150HP 111KW	**Guaranteed Efficiency:**	95.0 %
RPM:	1785	**3/4 Load Efficiency:**	--
Voltage:	460	**KVA Code:**	G
Hertz:	60	**Max KVAR:**	49.9
Amps - FL:	176.0	**Power Factor:**	84.0
Service Factor:	1.15	**Bearing - DE:**	6217C3
Alt Service Factor:	--	**Bearing - ODE:**	235A2536AB01

Enclosure is Weather Protected One

Stamped Nameplate Notes:
NEMA ENCLOSURE WP-I, CSA ENCL DP
HTR LDS HE1-HE2 115V 145W
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: 10.2 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 125 HP, 380V, 50 HZ WITH
178.0 AMPS AND 1485 RPM AT 1.0 SF

Additional Information:

4P, VERT HOLLOW SHAFT HIGH THRUST (1D)
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 14462 LB THRUST
PART WINDING START
CG:22.60 IN FROM P-BASE FACE,STAT DEF:= 0.005 IN
RCF:2750 CPM (+/-10%)
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.688", KEY =.375"
COMMON FOR STD STOCK AS WELL AS FIRE PUMP

Performance Characteristics 1st Winding 1st Connection **Design: 44BD1228A**

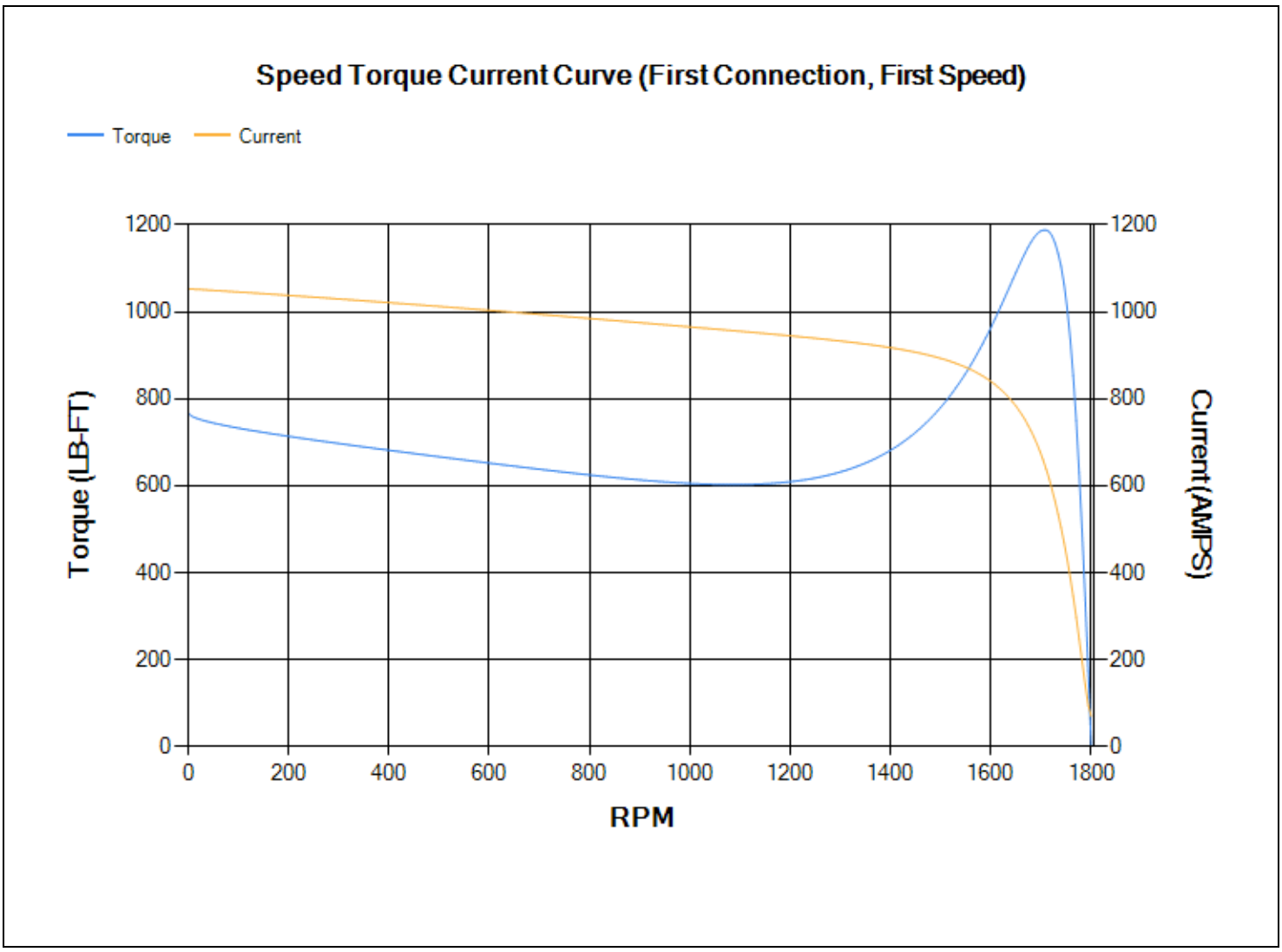
Marks:

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	94.71	94.9	95.3	95.2	94.64	91.75	0.00
% PF	85.58	85.05	83.75	79.39	69.54	47.05	3.96
AMPS	216.5	200.03	175.9	139.32	106.65	81.31	69.67

TORQ(FL)#FT	441.48	**TORQ(LR)%FL**	174.05	**TORQ(BD)%FL**	268.74
AMPS(LR)	1053.13	**PF AT START**	0.32		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 2405 Lb-Ft Sq (101.25 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 25 seconds. Safe stall time at 100% voltage is 47 seconds cold, 30 seconds hot. Rotor inertia is 45.75 Lb-Ft Sq (1.93 Kg-meter Sq).

Open Circuit A-C:	0.707	**Short Circuit D-C:**	0.027
Short Circuit A-C:	0.043	**X/R Ratio:**	10.262
Stator Slots:	72	**Rotor Slots:**	58

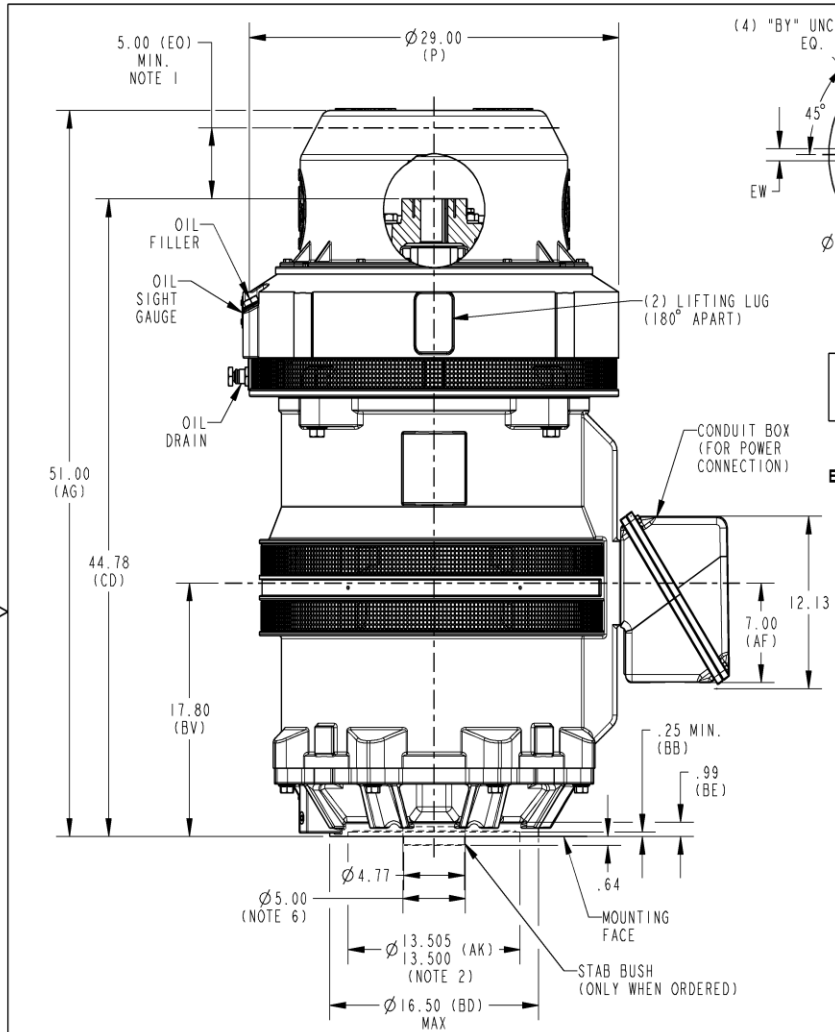


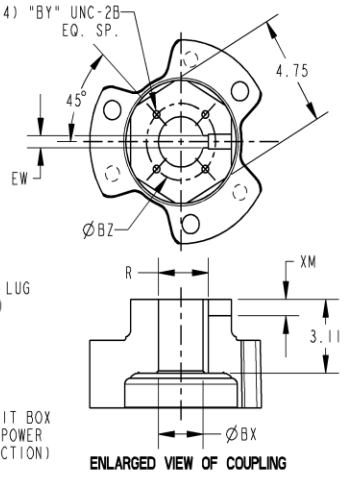
Marks:

July 15, 2020

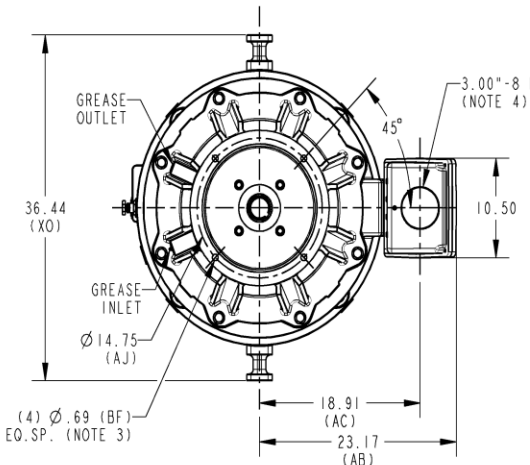
Model Number: 5KS444DAJ6008D

SIZE	DRAWING NO.	REV	SHEET
B	148CB44VMHKCCAA0001	001	1





ENLARGED VIEW OF COUPLING



VIEW A

REVISIONS				
REV.	DESCRIPTION		DATE	APPROVED
1	ISAAC#19-0070	LAXMIKANTH	01/30/19	DHEERAJ

NOTES:

1. THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE 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 CENTRLINE 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

COUPLING DIMENSIONS					
BX	BY	BZ	KEY WAY		
			EW	R	XM
1.501	1/4-20	2.125	.375	1.669	.562
1.688	1/4-20	2.500	.375	1.859	.562
1.751	1/4-20	2.500	.375	1.922	.562
1.813	1/4-20	2.500	.500	2.033	.688
1.938	1/4-20	2.500	.500	2.160	.688
2.001	3/8-16	3.250	.500	2.223	.688
2.063	3/8-16	3.250	.500	2.287	.688
2.126	3/8-16	3.250	.500	2.350	.688
2.188	3/8-16	3.250	.500	2.414	.688
2.251	3/8-16	3.250	.500	2.477	.688
2.376	3/8-16	3.250	.500	2.650	.688
2.438	3/8-16	3.250	.625	2.715	.812
2.501	3/8-16	3.250	.625	2.777	.812

SIGNATURES		DATE
MODEL	RAVI	07/01/16
DETAIL	RAVI	07/01/16
CHECKED	SASI	07/01/16
ENGRG	SASI	07/01/16
MFG	.	.
QUALITY	.	.
ISSUED	.	.

SOLID MODEL: 148CB44VMHKCCAA0001

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TITLE
OUTLINE, NEMA WPI 444/445
VERTICAL HOLLOW SHAFT, HIGH THRUST GRS LOWER
16.5 BD, 700 CU. IN C/BOX

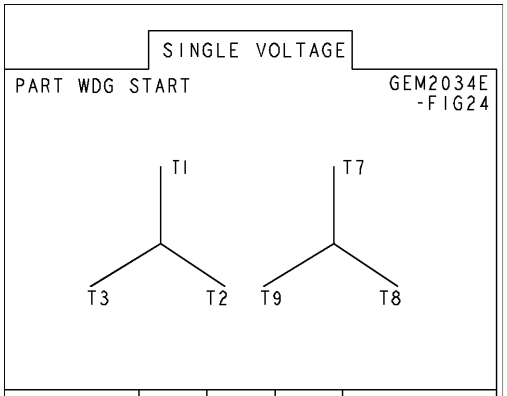
SIZE	DRAWING	REV
B	148CB44VMHKCCAA0001	001

SCALE: 0.120 | REF. No: . | SHEET 1 of 1

THIRD ANGLE PROJECTION

Marks:

Connection Diagram
GEM2034E-FIG24



WYE	L1	L2	L3	OPEN
START	T1	T2	T3	T7 T8 T9
RUN	T1-T7	T2-T8	T3-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	115E7660AA1	115E7670LM1
Bearing	235A2522AJ01	235A2536AB01
Slinger/Inproseal	149C4399G06	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	161C1050AA1

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

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	