



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

February 17, 2023

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

Model Number:	5KS404DAJ6063
Catalog Number:	V4472
Instruction Manual:	GEI-M1045
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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Marks:

MODEL NUMBER:	5KS404DAJ6063	Estimated Weight:	1160 Lbs
Outline Drawing:	148CB40VMHKCCAA0001	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	WPI
Instruction Book:	GEI-M1045	Encl Construction:	OPEN
Design Code:	40BD1195A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L404TP16	Insulation Class:	H
Phases:	3	NEMA Design:	B
Poles:	4	Nominal Efficiency:	94.1 %
Output Power:	100HP 74KW	Guaranteed Efficiency:	93.0 %
RPM:	1780	3/4 Load Efficiency:	--
Voltage:	200-230/460	KVA Code:	G
Hertz:	60	Max KVAR:	30.6
Amps - FL:	269.0-234.0/117.0	Power Factor:	84.5
Service Factor:	1.15	Bearing - DE:	6215C3
Alt Service Factor:	--	Bearing - ODE:	235A2532AA01

Enclosure is Weather Protected One

Stamped Nameplate Notes:

NEMA ENCLOSURE WP-I, CSA ENCL DP
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
AMB 0 TO 40 DEG C : ISO 32(MINERAL OR SYNTHETIC)
AMB -15 TO 0 DEG C : ISO 32 SYNTHETIC
SUITABLE FOR 75 HP, 190/380V, 50 HZ,
215.0/108.0 AMPS AND 1480 RPM AT 1.0 SF



Additional Information:

4P, VERT HOLLOW SHAFT HIGH THRUST (2D)
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 14600 LB THRUST
BEARING LIFE 10339 HRS AT 14000 LB THRUST
CG:18.50 IN FROM P-BASE FACE, STAT DEF:0.0032 IN
RCF:3240 CPM AT C/BOX SIDE, 3360 CPM AT
90 DEG FROM C/ BOX SIDE
NON-REVERSE BALL CARRIER,
BOLTED COUPLING, BX = 1.501 IN, EW= 0.375 IN
FIRE PUMP MOTOR
ESTIMATED SOUND PRESSURE < 85 DBA@ 1 METER



Performance Characteristics

1st Winding 1st Connection

Design: 40BD1195A

Marks:

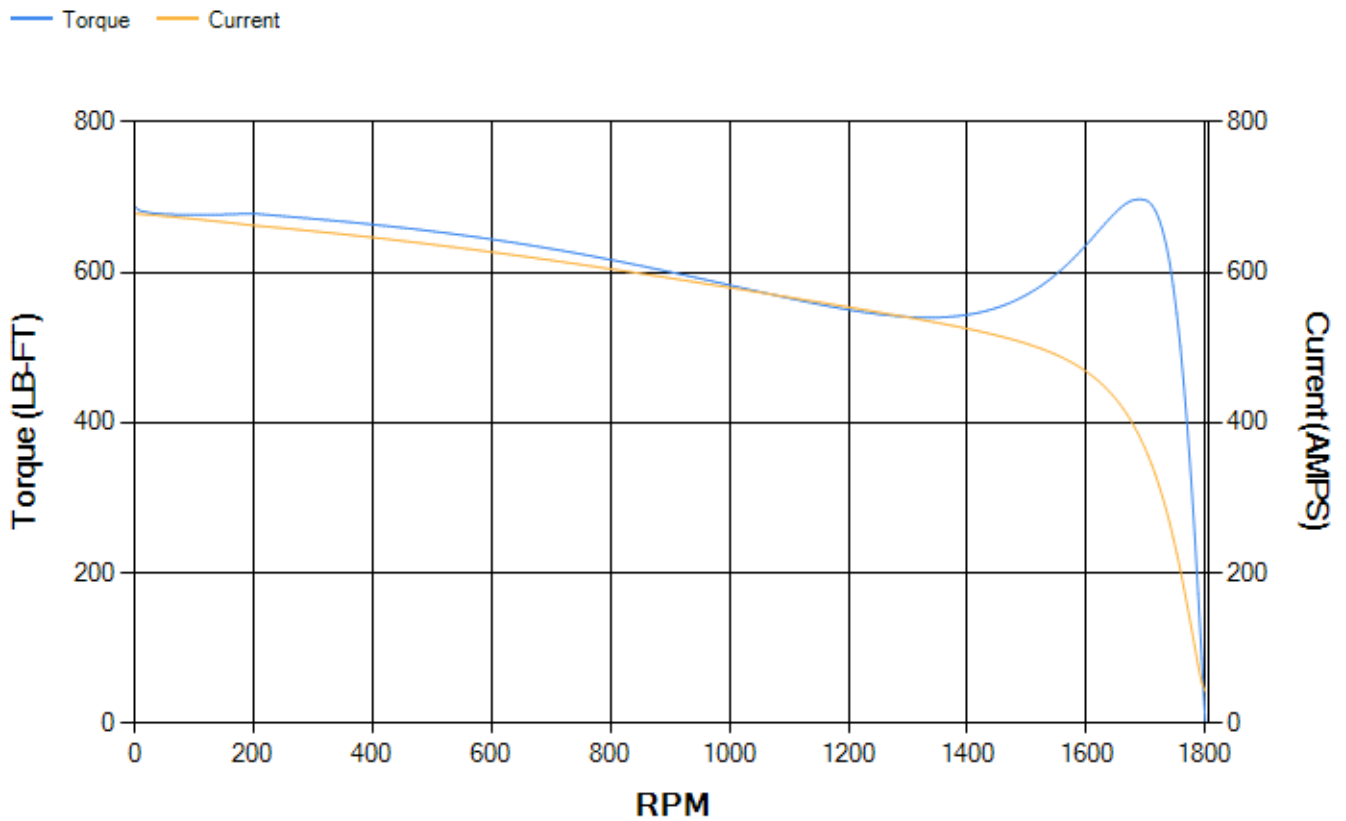
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.84	94.11	94.64	94.68	94.25	91.39	0.00
% PF	85.45	85.17	84.25	80.67	71.86	50.07	4.44
AMPS	145.89	134.28	117.39	91.9	69.1	51.13	42.61

TORQ(FL)#FT	295.31	TORQ(LR)%FL	233.12	TORQ(BD)%FL	235.69
AMPS(LR)	678.32	PF AT START	0.43		

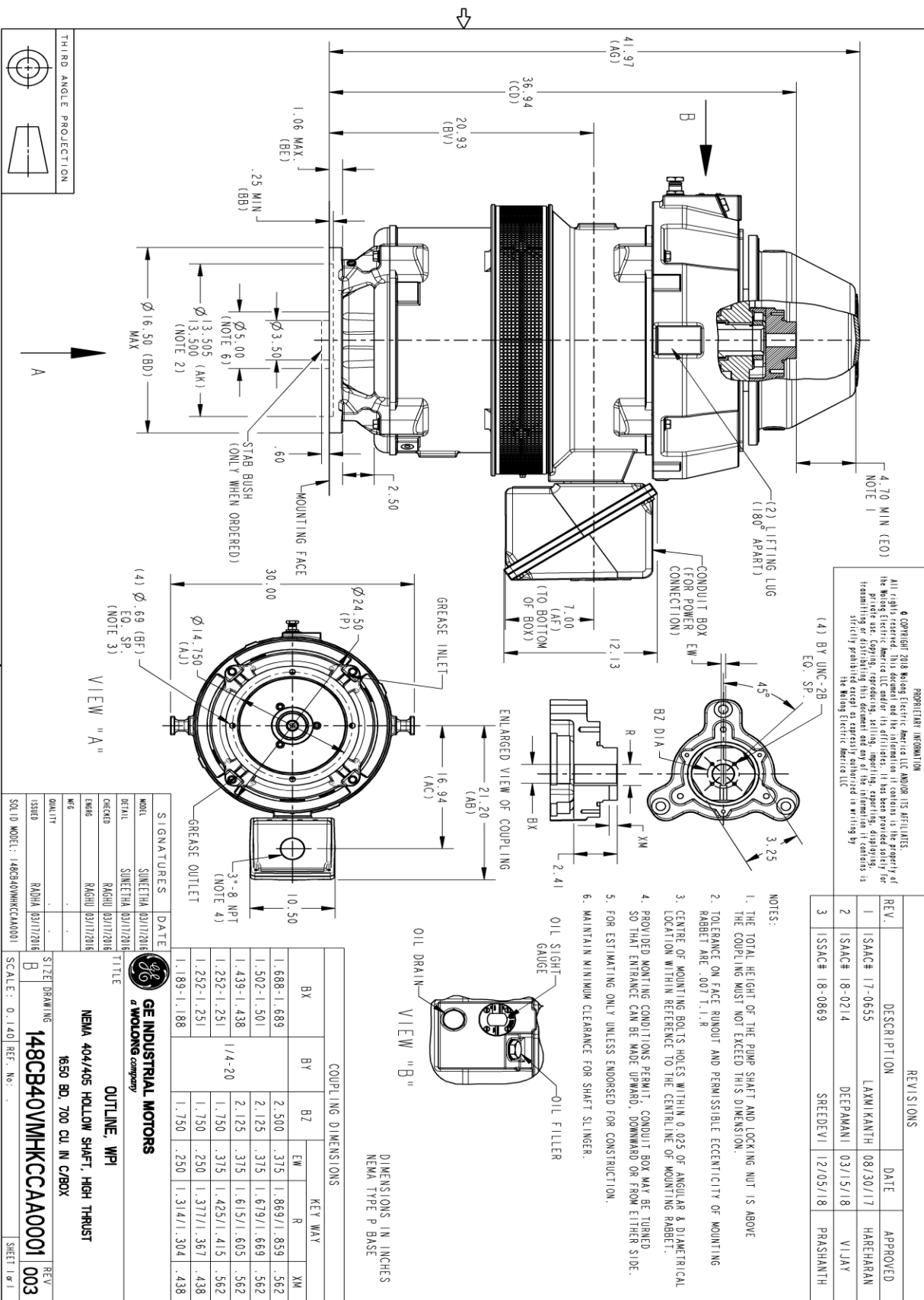
This motor is capable of two cold or one hot start with a maximum connected load inertia of 1778 Lb-Ft Sq (74.85 Kg-meter Sq) at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 20 seconds. Safe stall time at 100% voltage is 40 seconds cold, 24 seconds hot. Rotor inertia is 22.33 Lb-Ft Sq (0.94 Kg-meter Sq).

Open Circuit A-C:	0.577	Short Circuit D-C:	0.021
Short Circuit A-C:	0.029	X/R Ratio:	7.911
Stator Slots:	72	Rotor Slots:	58

Speed Torque Current Curve (First Connection, First Speed)



Marks:



PROPRIETARY INFORMATION
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REV. 1

REV.	DESCRIPTION	DATE	APPROVED
1	ISAC# 17-0655	08/30/17	HAREHARAN
2	ISAC# 18-0214	03/15/18	VILAY
3	ISSAC# 18-0869	12/05/18	PRAASHANTH

- 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 RINOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 ± 1.1 R
 3. CENTRE OF MOUNTING BOLTS HOLES WITHIN 0.025 OF ANGULAR & DIAMETRICAL LOCATION WITHIN REFERENCE TO THE CENTRAL LINE OF MOUNTING RABBIT.
 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.

COUPLING DIMENSIONS

KEY WAY	BX		BY		BZ	
	EW	R	EW	R	EW	R
	1.688-1.689	2.500	.375	1.869/1.859	.562	.562
	1.502-1.501	2.125	.375	1.679/1.669	.562	.562
	1.439-1.438	1/4-20	2.125	1.615/1.605	.562	.562
	1.252-1.251	1.750	.375	1.425/1.415	.438	.438
	1.252-1.251	1.750	.250	1.377/1.367	.438	.438
	1.189-1.188	1.750	.250	1.314/1.304	.438	.438



GE INDUSTRIAL MOTORS
 a wolong company

OUTLINE, WPI
 NEMA 404/405 HOLLOW SHAFT, HIGH THRUST
 650 BD, 700 CU IN C/BOX

SIGNATURES	DATE
MOEL SUNEETHA 03/17/2016	
DETAL SUNEETHA 03/17/2016	
CREGOS RAGHU 03/17/2016	
ENGR RAGHU 03/17/2016	
WEG	
QUALITY	
ISSUED RADHA 03/17/2016	
SOLID MODEL: 148CB40VMHKCCA0001	

SCALE: 0.140 REF. NO. ...

SIZE DRAWING NO. B 148CB40VMHKCCA0001 003 REV SHEET 1

Marks:

Connection Diagram
GEM2034E-FIG9



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	115E7306AC1	115E7310LK-G01
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	

