



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

October 3, 2022

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

Model Number:	5KS286DAE6072
Catalog Number:	V4034
Instruction Manual:	GEK-95353
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828NSP5217

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: 5KS286DAE6072
Outline Drawing: 4002B5828NSP5217
Connection Diagram: GEM2034E-FIG9
Instruction Book: GEK-95353
Design Code: 28BD1142A
Type: KS
Frame: L286TP16
Phases: 3
Poles: 4
Output Power: 30HP 22.2KW
RPM: 1780
Voltage: 200-230/460
Hertz: 60
Amps - FL: 78.4-70.6/35.3
Service Factor: 1.15
Alt Service Factor: --

Estimated Weight: 470 Lbs
Time Rating: CONT
Enclosure: WPI
Encl Construction: OPEN
Ambient Max(°C): 40
Alt Ambient Max(°C): --
Insulation Class: H
NEMA Design: A
Nominal Efficiency: 94.1 %
Guaranteed Efficiency: 93.0 %
3/4 Load Efficiency: --
KVA Code: H
Max KVAR: 9.6
Power Factor: 84.5
Bearing - DE: 7310
Bearing - ODE: 6210-2ZC3

Enclosure is Weather Protected One

Stamped Nameplate Notes:

PREMIUM EFFICIENT MOTOR
 NEMA ENCL WPI AND CSA ENCL DP
 ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3
 HTR LDS HE1-HE2 115V 60W
 INVERTER DUTY PER NEMA MG1 PART 31
 ALTERNATE RATING FOR PWM CONTROL:
 1.0 SF VAR TORQUE RANGE 5-60 HZ
 SUITABLE FOR 25HP, 190/380V,
 50 HZ WITH 70.8/35.4AMPS AND 1480 RPM AT 1.0 SF



Additional Information:

4P - TP EXTN
C/BOX 137 CU IN-1.50 NPT
AUX LEADS EXIT WITH MOTOR LEADS
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &
CENTER OF GRAVITY 12.00 INCHES
HOLLOW SHAFT HIGH THRUST
NON REV CPLG W/BX=1.25" KW=0.25"
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 2960 LB THRUST
FIRE PUMP MOTOR
ESTIMATED SOUND PRESSURE < 80 DBA AT 1 METER



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1142A

Marks:

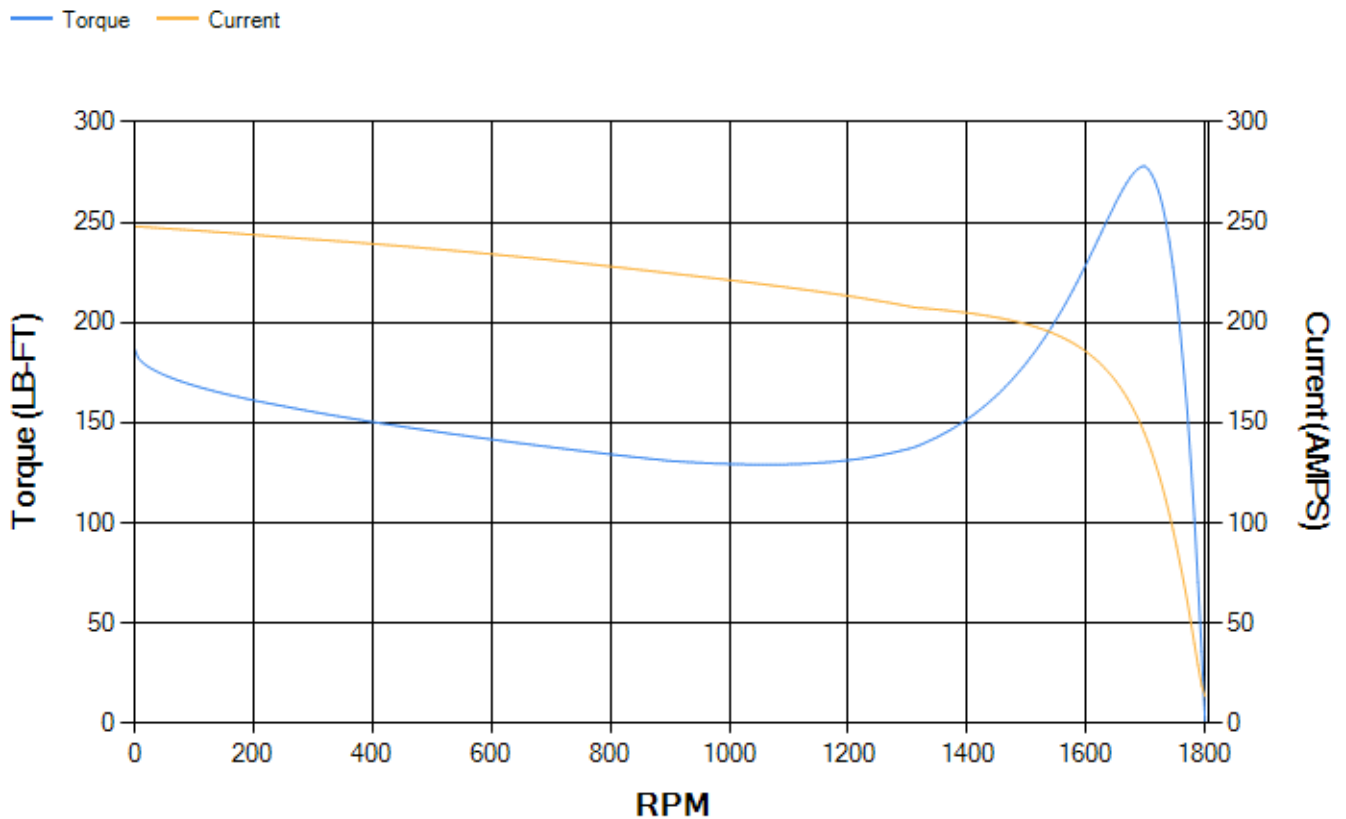
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.22	93.54	94.14	94.33	94.04	91.34	0.00
% PF	86.1	85.63	84.44	80.35	70.89	48.62	4.22
AMPS	43.73	40.31	35.3	27.78	21.06	15.81	13.33

TORQ(FL)#FT	88.41	TORQ(LR)%FL	211.28	TORQ(BD)%FL	313.48
AMPS(LR)	247.93	PF AT START	0.39		

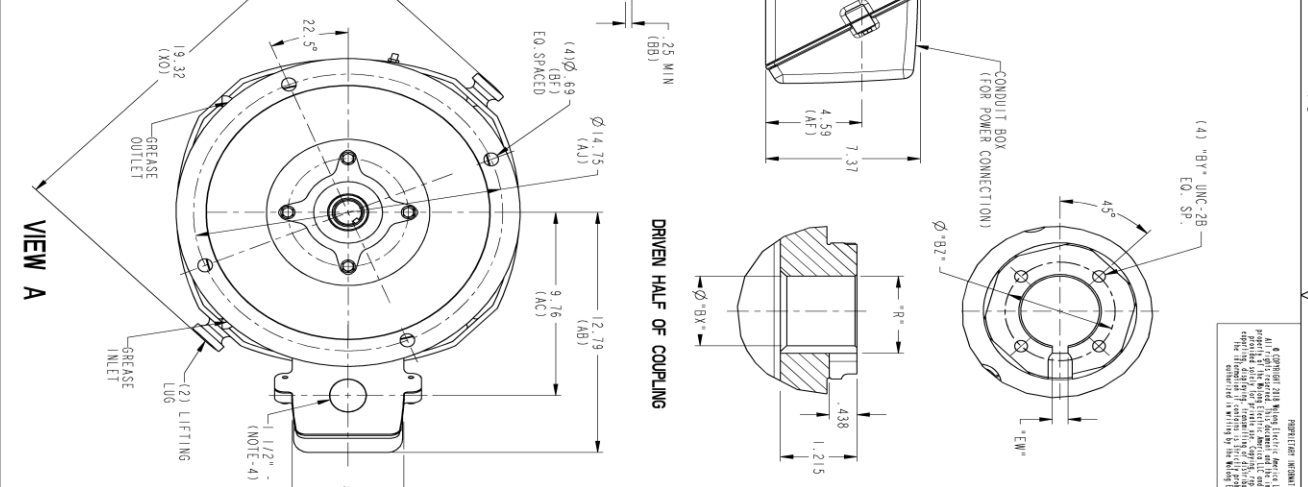
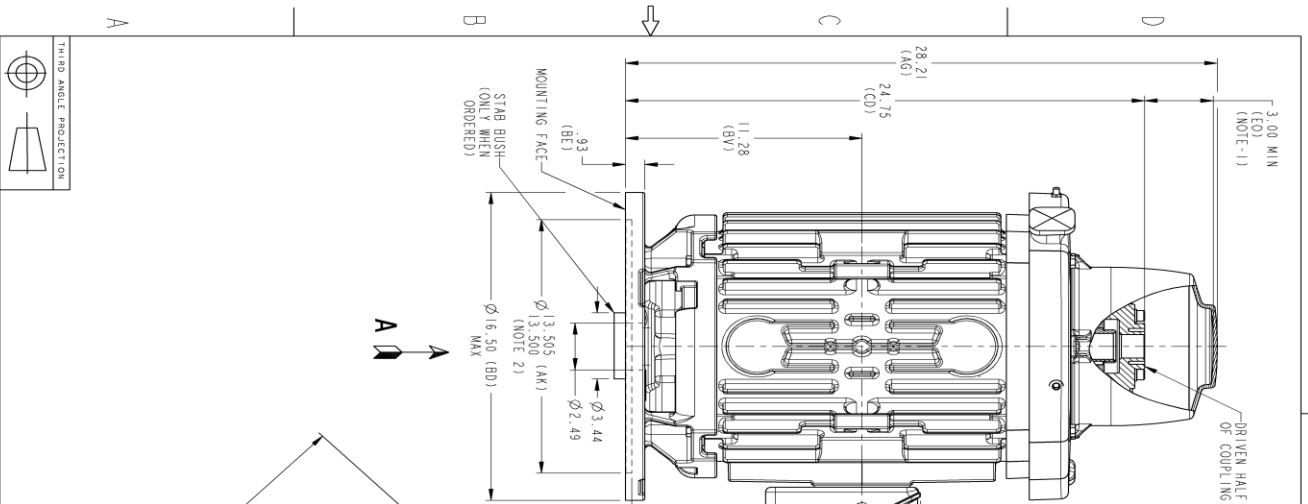
This motor is capable of two cold or one hot start with a maximum connected load inertia of 973 Lb-Ft Sq (40.96 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 44 seconds. Safe stall time at 100% voltage is 83 seconds cold, 68 seconds hot. Rotor inertia is 5.39 Lb-Ft Sq (0.23 Kg-meter Sq).

Open Circuit A-C:	0.66	Short Circuit D-C:	0.016
Short Circuit A-C:	0.028	X/R Ratio:	5.918
Stator Slots:	48	Rotor Slots:	40

Speed Torque Current Curve (First Connection, First Speed)



Marks:



REGISTRATION INFORMATION

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REV.	DESCRIPTION	DATE	APPROVED
1	FIRST RELEASE FROM TC	MAGARAJ 01/24/17	RAVI
2	BB & BD DIMENSION UPDATED	GUINSEKARAN SAGANK	
3	ISAC # 22-0456	BESTIAS 08/03/22	BESTIAS

SIGNATURES	DATE	TITLE
MAGARAJ	12/01/16	ENGINEER
MAGARAJ	12/01/16	DESIGNER
RAVI	12/01/16	CHECKED
RAVI	12/01/16	DRAWN
RAVI	12/01/16	DATE

GE INDUSTRIAL MOTORS
A WOLONG company

OUTLINE, WPI
NEMA 280 HOLLOW SHAFT, HIGH THRUST
1650 BD, 137 CU, IN BOX

4002B5828N5P5217
SCALE: 0.250
REV: 003
SHEET 1 OF 1

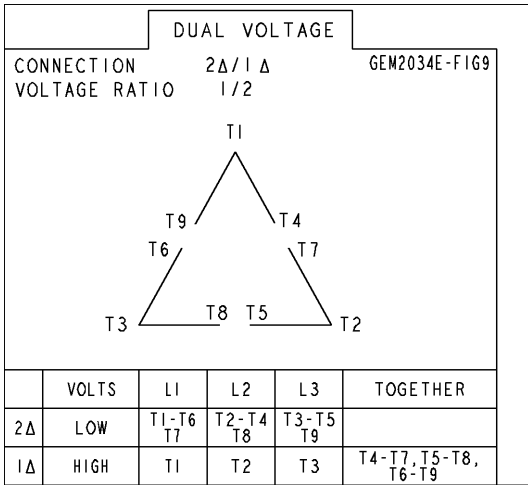
BORE DIA.	"B"	"B"	KEYWAY	
"BX"	"B"	"B"	DIM "EW"	DIM "R"
1.292				1.377
1.231				1.367
1.189				1.314
1.188				1.304
1.066	1/4-20	1.750		1.191
1.065				1.181
1.127			.292	1.292
1.126			.290	1.242
1.002				1.124
1.001				1.114
.938				1.061
.938				1.051
.877	#10-32	1.315		.997
.876				.987
.752			.190	.847
.751			.188	.837
1.032			.252	1.139
1.031			.250	1.129

DIAMENSIONS IN INCHES
NEMA TYPE P-BASE

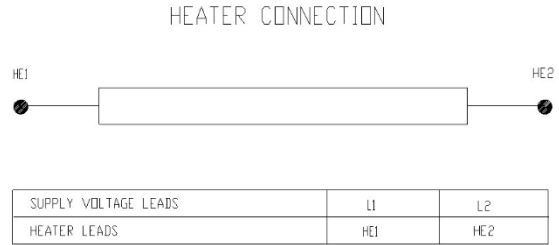
- THE TOTAL HEIGHT OF PUMP SHAFT AND LOCKING NUT ABOVE COUPLING MUST NOT EXCEED THIS DIMENSION.
- TOLERANCE ON FACE RUNOUT AND PERMISSIBLE ECCENTRICITY OF MOUNTING RABBIT ARE .007 T.I.R.
- CENTRE OF MOUNTING BOLT HOLES SHOULD BE WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITH REFERENCE TO THE CENTERLINE OF MOUNTING RABBIT.
- PROVIDED MOUNTING CONDITIONS PERMIT, CONDUIT BOX MAY BE TURNED SO THAT ENTRANCE CAN BE MADE UPWARD, DOWNWARD OR FROM EITHER SIDE.
- FOR ESTIMATING ONLY UNLESS ENDORSED FOR CONSTRUCTION.
- MAINTAIN MINIMUM CLEARANCE FOR SHAFT SLINGER.

Marks:

Connection Diagram
GEM2034E-FIG9



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6235AA1	128D6228PA1
Bearing	235A2508ET01	235A2508AK01
Slinger/Inproseal	235A2300FL2	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5728PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

