



GE INDUSTRIAL MOTORS
a **WOLONG** company

Product Technical Information

December 25, 2020

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

Model Number:	5KS286DAE6059A
Catalog Number:	V4017
Instruction Manual:	GEK-95353
Connection Diagram:	GEM2034E-FIG9
Outline Drawing:	4002B5828NSP5212

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:	5KS286DAE6059A	Estimated Weight:	470 Lbs
Outline Drawing:	4002B5828NSP5212	Time Rating:	CONT
Connection Diagram:	GEM2034E-FIG9	Enclosure:	WPI
Instruction Book:	GEK-95353	Encl Construction:	OPEN
Design Code:	28BD1142A	Ambient Max(°C):	40
Type:	KS	Alt Ambient Max(°C):	--
Frame:	L286TP12	Insulation Class:	H
Phases:	3	NEMA Design:	A
Poles:	4	Nominal Efficiency:	94.1 %
Output Power:	30HP 22.2KW	Guaranteed Efficiency:	93.0 %
RPM:	1780	3/4 Load Efficiency:	--
Voltage:	230/460	KVA Code:	H
Hertz:	60	Max KVAR:	9.6
Amps - FL:	70.6/35.3	Power Factor:	84.5
Service Factor:	1.15	Bearing - DE:	7310
Alt Service Factor:	--	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=1.00" KW=0.25"
OIL RESISTANT SLEEVING ON LEADS
BEARING LIFE 8760 HOURS AT 2959 LB THRUST



Performance Characteristics

1st Winding 1st Connection

Design: 28BD1142A

Marks:

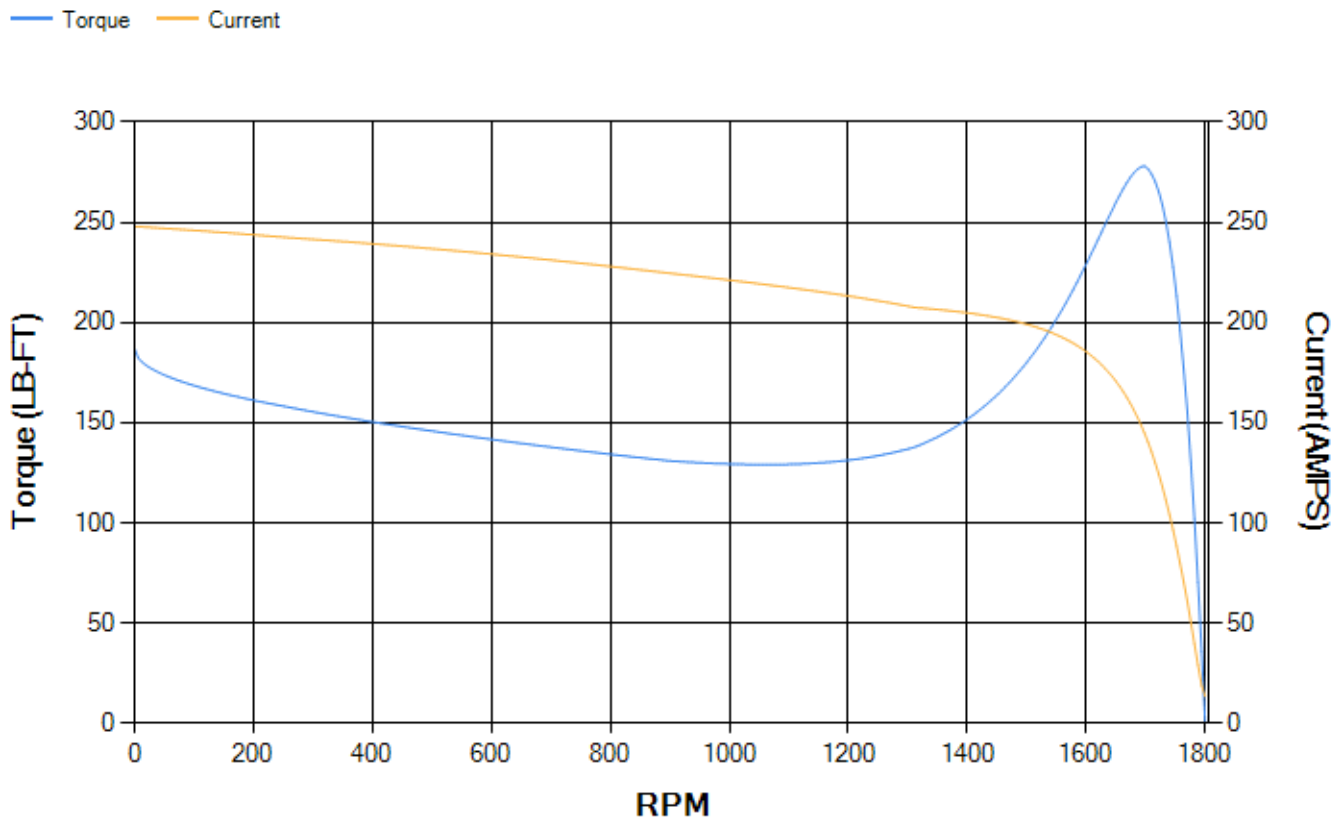
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	93.22	93.54	94.14	94.33	94.04	91.34	0.00
% PF	86.1	85.63	84.44	80.35	70.89	48.62	4.22
AMPS	43.73	40.31	35.3	27.78	21.06	15.81	13.33

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

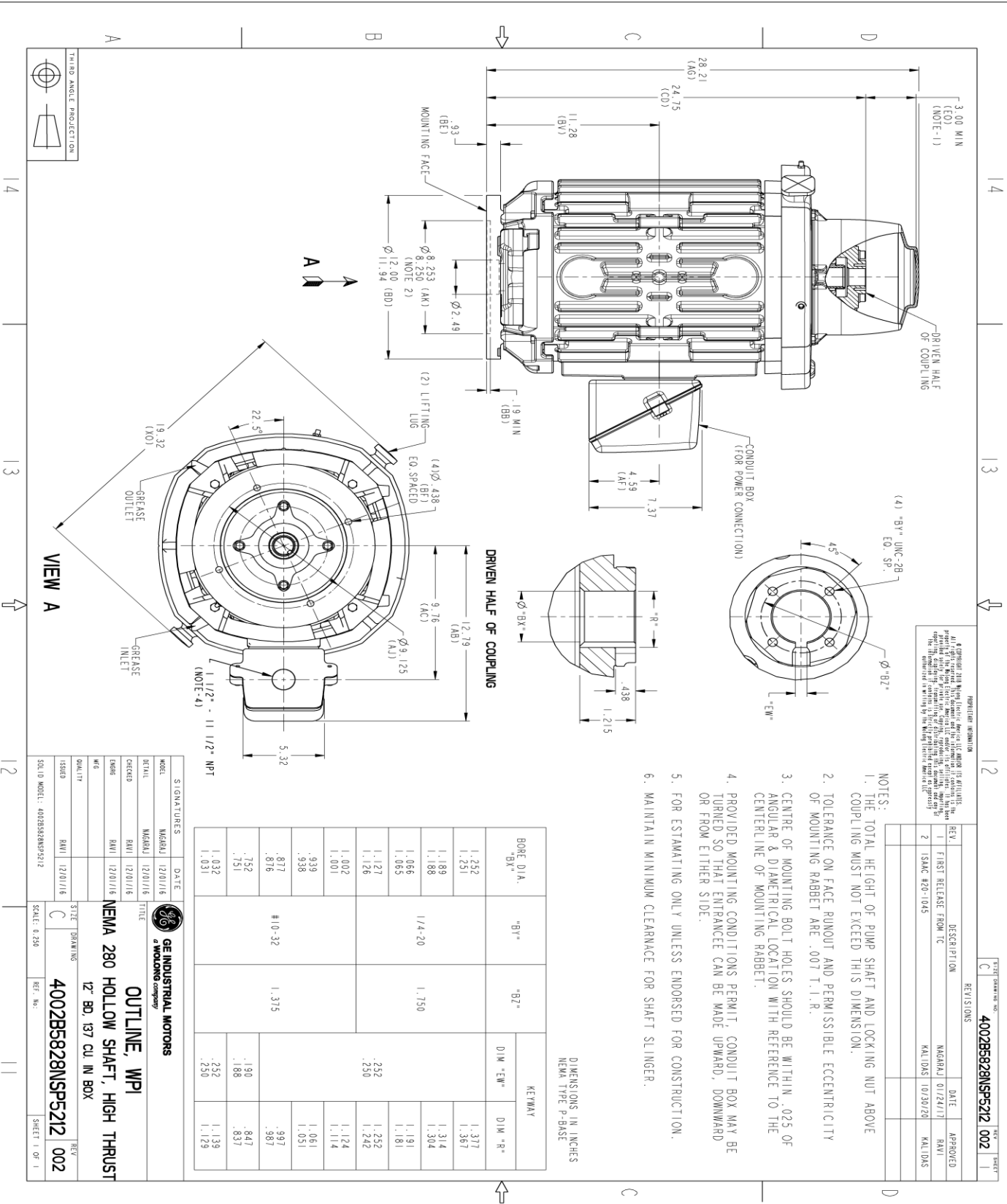
This motor is capable of two cold or one hot start with a maximum connected load inertia of 973 Lb-Ft Sq (40.96 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 44 seconds. Safe stall time at 100%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



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REV.	DESCRIPTION	DATE	APPROVED
1	FIRST RELEASE FROM TC	MGRARJ 01/24/17	RAVI
2	ISAC #20-1045	KALIDAS 10/30/20	KALIDAS

- 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 ECCENTRICITY OF MOUNTING RABBIT ARE .007 T.I.R.
 3. CENTRE OF MOUNTING BOLT HOLES SHOULD BE WITHIN .025 OF ANGULAR & DIAMETRICAL LOCATION WITH REFERENCE TO THE CENTERLINE 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.

BONE DIA.	"B1"	"B2"	KEYWAY	
			DIM "EW"	DIM "R"
1.252				1.317
1.231				1.367
1.188				1.314
1.188				1.304
1.066	1/4-20	1.750		1.191
1.065				1.181
1.127			.252	1.252
1.126			.250	1.242
1.002				1.124
1.001				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

DIMENSIONS IN INCHES
 NEMA TYPE P-BASE

SIGNATURES		DATE
MODEL	MGRARJ	12/01/16
REV. 1	MGRARJ	12/01/16
CHECKED	RAVI	12/01/16
DESIGN	RAVI	12/01/16
W/E		
QUALITY	RAVI	12/01/16
ISSUED		
SOLD MODEL	4002B5828N5P5212	

GE INDUSTRIAL MOTORS
 a WOLSKOM company

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

SCALE: 0.250

4002B5828N5P5212
 REF. NO.

SIZE	DRAWING	REV
C		002

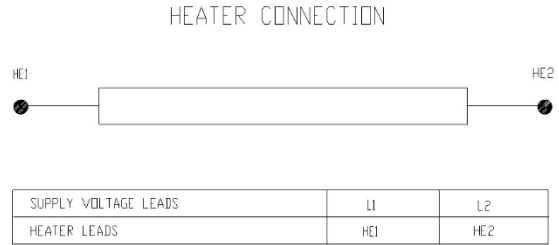
SHEET 1 OF 1

Marks:

Connection Diagram
GEM2034E-FIG9



Heater Connection
3027JE-1C



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6235AB1	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	

