



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

September 9, 2022

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

<b>Model Number:</b>	<b>5KE286DAE6022</b>
<b>Catalog Number:</b>	<b>VF124</b>
<b>Instruction Manual:</b>	GEK-95353
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5828NSP5212

## Accessory Connection Diagrams

<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

<b>MODEL NUMBER:</b>	<b>5KE286DAE6022</b>
<b>Outline Drawing:</b>	4002B5828NSP5212
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Instruction Book:</b>	GEK-95353
<b>Design Code:</b>	28BD1246A
<b>Type:</b>	KE
<b>Frame:</b>	L286TP12
<b>Phases:</b>	3
<b>Poles:</b>	4
<b>Output Power:</b>	30HP 22.2KW
<b>RPM:</b>	1775
<b>Voltage:</b>	200-230/460
<b>Hertz:</b>	60
<b>Amps - FL:</b>	79.9-69.0/34.5
<b>Service Factor:</b>	1.15
<b>Alt Service Factor:</b>	--

<b>Estimated Weight:</b>	470 Lbs
<b>Time Rating:</b>	CONT
<b>Enclosure:</b>	WPI
<b>Encl Construction:</b>	OPEN
<b>Ambient Max(°C):</b>	40
<b>Alt Ambient Max(°C):</b>	--
<b>Insulation Class:</b>	H
<b>NEMA Design:</b>	B
<b>Nominal Efficiency:</b>	92.4 %
<b>Guaranteed Efficiency:</b>	91.0 %
<b>3/4 Load Efficiency:</b>	--
<b>KVA Code:</b>	G
<b>Max KVAR:</b>	6.3
<b>Power Factor:</b>	88.0
<b>Bearing - DE:</b>	7310
<b>Bearing - ODE:</b>	6210-2ZC3

Enclosure is Weather Protected One

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Stamped Nameplate Notes:

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 25 HP, 190/380 V, 50 HZ  
 69.3/ 34.6 AMPS



**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=1.18" KW=0.25"  
OIL RESISTANT SLEEVING ON LEADS  
BEARING LIFE 8760 HOURS AT 2959 LB THRUST  
FIRE PUMP MOTOR  
ESTIMATED SOUND PRESSURE < 80 DBA@ 1 METER



**Performance Characteristics**

1st Winding 1st Connection

**Design: 28BD1246A**

**Marks:**

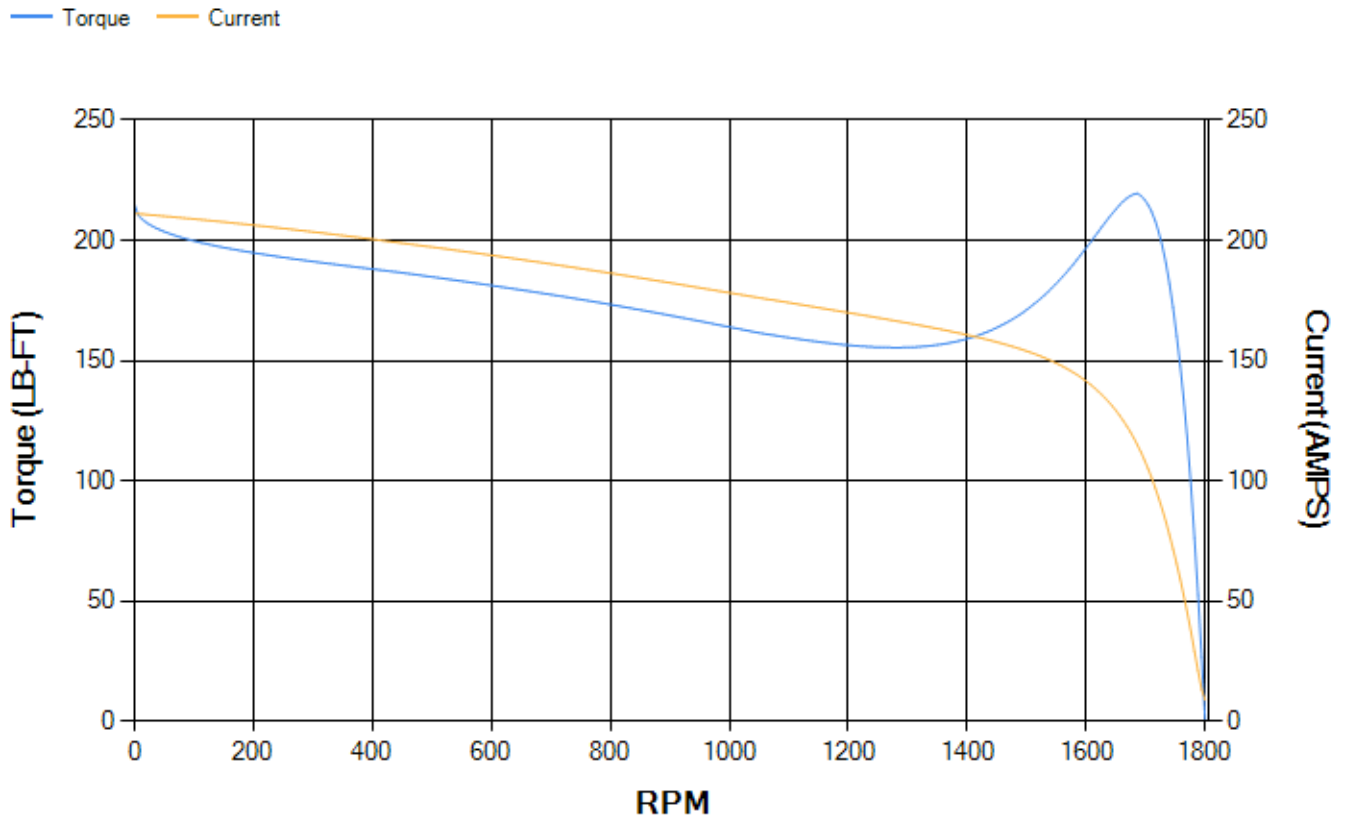
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.57	92.17	93.14	93.91	94.26	92.62	0.00
% PF	87.86	88.15	88.17	86.7	81.27	63.01	5.01
AMPS	43.62	39.74	34.17	25.86	18.33	12.03	8.74

<b>TORQ(FL)#FT</b>	88.8	<b>TORQ(LR)%FL</b>	241.73	<b>TORQ(BD)%FL</b>	246.12
<b>AMPS(LR)</b>	211.21	<b>PF AT START</b>	0.5		

This motor is capable of two cold or one hot start with a maximum connected load inertia of 1058 Lb-Ft Sq (44.54 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 41 seconds. Safe stall time at 100% voltage is 71 seconds cold, 54 seconds hot. Rotor inertia is 5.39 Lb-Ft Sq (0.23 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.735	<b>Short Circuit D-C:</b>	0.012
<b>Short Circuit A-C:</b>	0.023	<b>X/R Ratio:</b>	4.648
<b>Stator Slots:</b>	48	<b>Rotor Slots:</b>	40

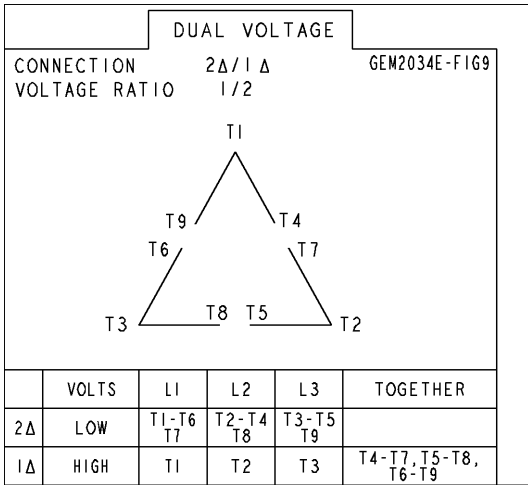
**Speed Torque Current Curve (First Connection, First Speed)**



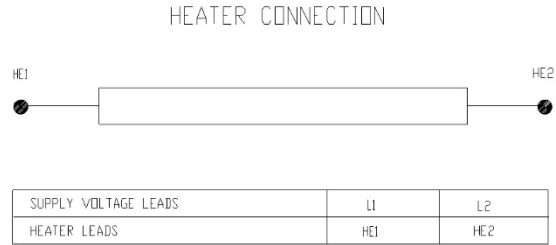


Marks:

**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	

