



50Hz PERFORMANCE DETAILS PAGE 1/2

Motors

Wednesday, April 25, 2012

Technical Data Center  
PO Box 2204  
Fort Wayne, IN 46801-2204

Customer: BALDWIN SUPPLY CO INC  
601 11TH AVE. SO.  
MINNEAPOLIS, MN 55415

**CE PRINTS FOR APPROVAL PACKAGE**

Return 'For Approval' prints to the GE Field Sales Engineer or Customer Care Contact. The order is on hold until prints are approved and returned. When approved prints are received by GE, current leadtimes will apply.

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Customer Order / Item: PM294905

Sales Order No: 5200009630

Customer Part: None

Order Line No: 14.1

**MODEL NUMBER:** -----

Estimated Weight: 231.82 Kg

Outline Drawing: 4002B5828PBP5408

Time Rating: CONT

Connection Diagram: GEM2034E-FIG109

Enclosure: TEFC

Instruction Book: GEI-56128

Encl Construction: X\$D

Design Code: -----

Ambient Max(°C): 40

Type: KS

Insulation Class: H

Frame: 286TSC

NEMA Design: B

Phases: 3

Nominal Efficiency: 92.4%

Poles: 2

Guaranteed Efficiency: 91.7%

Output Power: 25HP 18.6KW

3/4 Load Efficiency: 93.8%

RPM: 2950

KVA Code: H

Voltage: 200/400

Max KVAR: 3.7

Hertz: 50

Power Factor: 93.0

Amps - FL: 62.6/31.3

Bearing - DE: 6310ZC3

Service Factor: 1.15

Bearing - ODE: 6310ZC3

Alt Service Factor: --

Enclosure is Totally Enclosed Fan-Cooled

**Stamped Nameplate Notes:**

ALTERNATE RATING FOR PWM CONTROL: 1.0SF 40C AMB  
INVERTER DUTY CONSTANT TORQUE RANGE:12.5-50 HZ

**Additional Information:**

NOT FOR MANUFACTURING

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Model Number: 5KS286SAA163

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**Performance Characteristics**

1st Winding 1st Connection

Design: -----

LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	91.91	92.40	92.40	93.82	93.94	91.88	0.00
% PF	92.61	92.82	93.00	92.11	88.79	75.26	8.11
AMPS	39.51	36.08	31.30	23.35	16.13	9.73	5.97

**TORQ(FL)N-m** 60.28  
**AMPS(LR)** 204.34

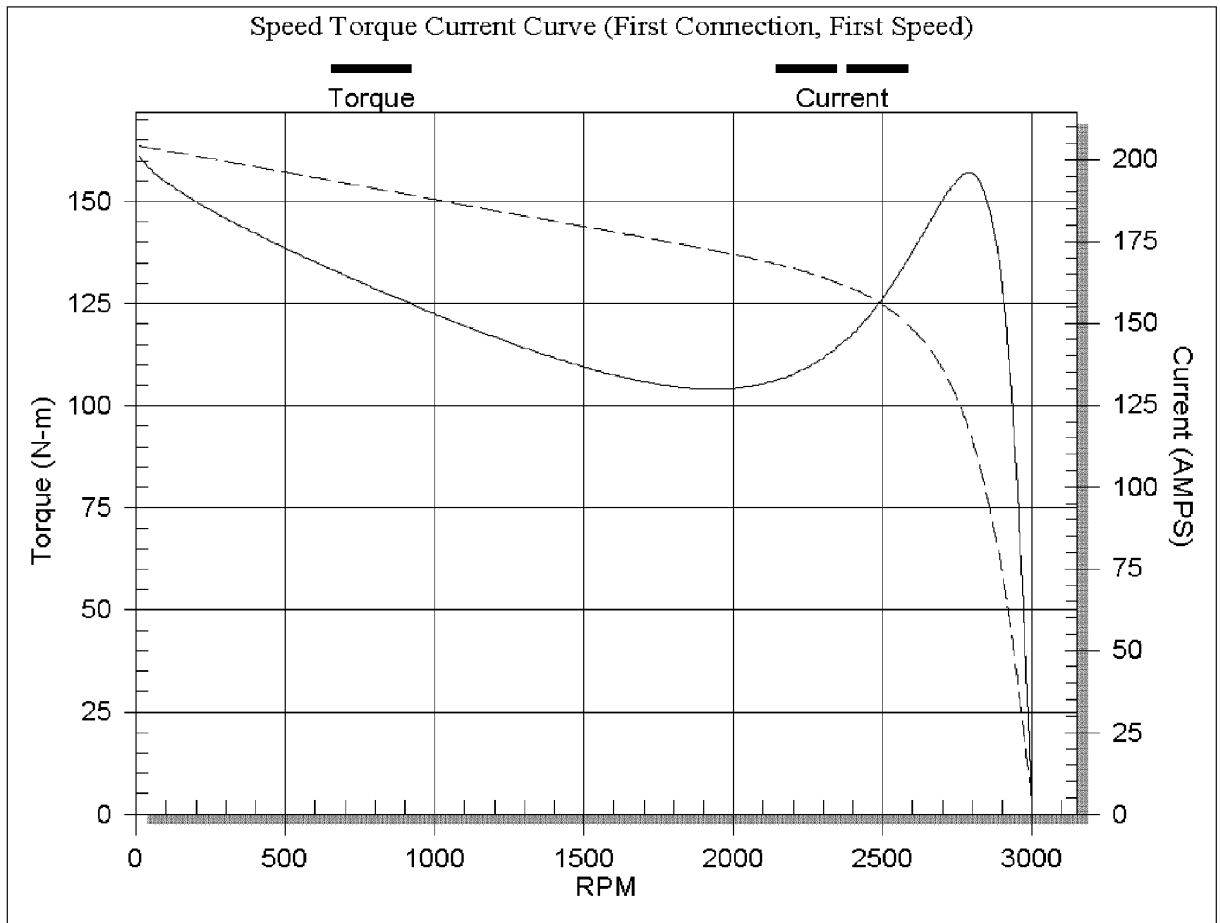
**TORQ(LR)%FL** 271.26  
**PF AT START** 0.45

**TORQ(BD)%FL** 259.70

This motor is capable of two cold or one hot start with a maximum connected load inertia of 206.0 Lb-Ft Sq (8.7 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 26 seconds. Safe stall time at 100% voltage is 44 seconds cold, 36 seconds hot. Rotor inertia is 3.25 Lb-Ft Sq (0.137 Kg-meter Sq).

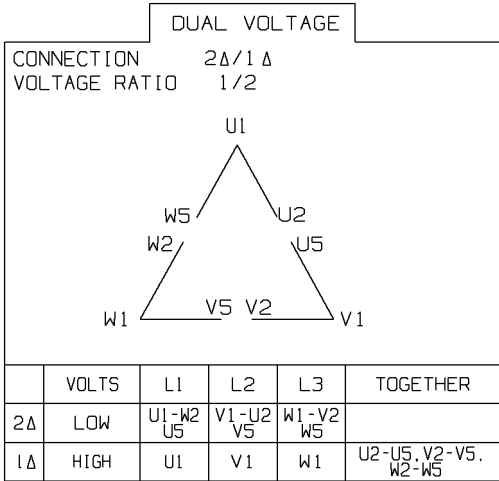
**Open Circuit A-C:** 1.071  
**Short Circuit A-C:** 0.027  
**Stator Slots:** 48

**Short Circuit D-C:** 0.015  
**X/R Ratio:** 4.790  
**Rotor Slots:** 38



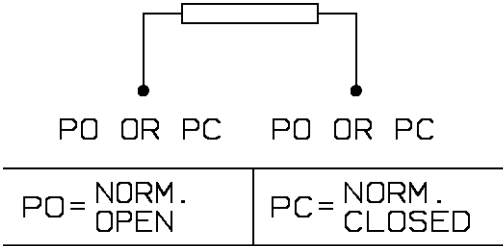
**Diagrams for Model: 5KS286SAA163**

**Connection Diagram  
GEM2034E-FIG109**



**Thermostat Connection  
3027JE-2**

FIG. 2  
THERMOSTAT CONN.







## Manufacturer's Declaration of Conformity

*Manufacturer's Name and Address:*

**GE Motors**  
General Electric Company  
1030 Swinney Avenue  
Fort Wayne, IN 46802

We declare, under our sole responsibility, products identified in this declaration are in conformity with the essential requirements of Council Directives listed below:

The electrical apparatus for which this declaration is issued, GE Motor Model number **5KS286SAA163**, manufactured in the year **2012** is in conformity with the instructions of (2006/95/EC) Low Voltage. The conformity with the instructions of this directive is provided by compliance with the essential health and safety requirements of the following European standards:

EN60034-1: 2006-06 Rotating Electrical Machines - Part 1: Rating and Performance  
EN60034-5: 2007-01 Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP Code) - Classification.  
EN60034-6: 1994 Rotating electrical machines- Part 6: Methods of cooling (IC Code)  
EN60034-7: 1993 Rotating electrical machines - Part 7: Classification of types of constructions, mounting arrangements and terminal box position (IM Code) (Amended to A1: 2000)  
EN60034-9: 2005 Rotating electrical machines - Part 9: Noise limits (Amended to A1: 2007)

The Technical Construction File is maintained on behalf of the manufacturer by:

Name: Alessandro Venturi  
Title: Region Manager Europe, Middle East, Africa  
Address: General Electric International  
Via Roberto Lepetit 8/10  
20124 Milano, Italy  
Phone/Email: +39 0267335705 / alex.venturi3@ge.com

The Responsible Person, based within the European Community is:

Name: Alessandro Venturi  
Title: Region Manager Europe, Middle East, Africa  
Address: General Electric International  
Via Roberto Lepetit 8/10  
20124 Milano, Italy  
Phone/Email: +39 0267335705 / alex.venturi3@ge.com

The Authorized Signatory to this declaration, on behalf of the manufacturer, is:

Name: Pat Morello  
Title: General Manager, Motors and Controls  
Address: General Electric Company  
1635 Broadway

Fort Wayne, IN 46801 USA

Phone /Email: 260-402-0937 / [Pat.morello@ge.com](mailto:Pat.morello@ge.com)

Signature: \_\_\_\_\_

Date: April 25, 2012

