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high performance motors and drives

S Series Brushless Servomotors



Combine high torque with improved load matching.

The S Series NEMA 23 and 34 frame brushless servomotors extend PacSci's offering of reliable, high performance brushless servomotors. A medium inertia, high performance family, S Series complements the R Series of low inertia motors.

Designed for demanding torque, velocity and/or positioning applications, S Series features the industry's highest torque per frame size plus medium rotor inertia for improved load matching.

High torque per frame size provides important application advantages. S Series' increased torque enhances system performance without increasing the motor frame size and the size of the machine or equipment. A compact motor like the S Series can possibly reduce the size of the machine while providing the same torque.

Medium rotor inertia also provides application advantages. Most closed loop brushless servomotor applications require closely matched load to motor inertias to achieve compliant system stability and the desired system response (bandwidth). Whether coupled directly to the load or through gearing, these considerations are key to the desired result. S Series' medium inertia design permits closer load inertia match in a broad range of applications. In some applications, the S Series can eliminate the need for gear reduction.

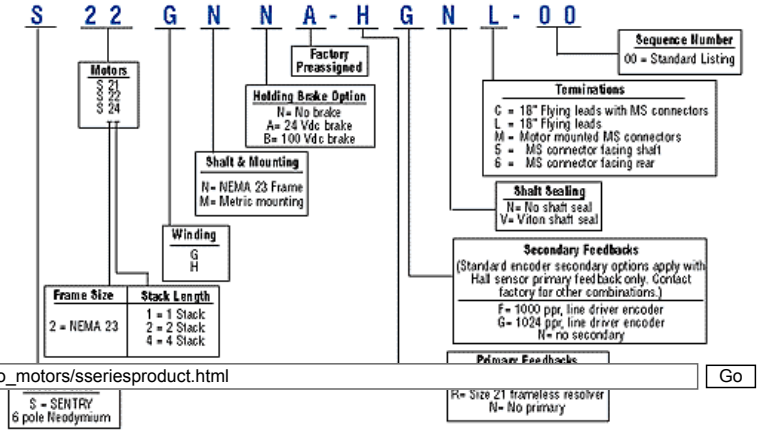
Features	Benefits
Highest torque per frame size in the industry	Maximum performance in small envelope; reduce space required for motor or get more torque in same space
Medium rotor inertia for improved load matching	Obtain not only optimized system response (time), but a stable system responseeliminates gearing sometimes used to achieve better load matching
Standard NEMA and Metric mounting, UL and European Compliance rating	Satisfy broad end use requirements
Peak torque rated at three times continuous current plus good torque linearity beyond continuous ratings	Move loads fast - operate above peak ratings in intermittent duty applications to move loads even faster
Choice of Hall sensor, resolver or encoder feedback	To meet broad drive and system requirements
Compatible with 6-step or sine drives - can furnish special windings for specific drive parameters and torque/speed requirements	Versatile
600V UL winding insulation system	Maintain motor integrity at higher bus voltages
NEMA 23 and 34 frame sizes - 4.3 to 45 lb-in. continuous stall torque	Addresses wide range of torque requirements
Rugged "housingless" square frame	Efficient use of volume for optimal magnetic circuit
Sealed per IP65 and NEMA specifications	For washdown requirements
Brake option	Improved machine safety
Two year warranty	Quality and reliability

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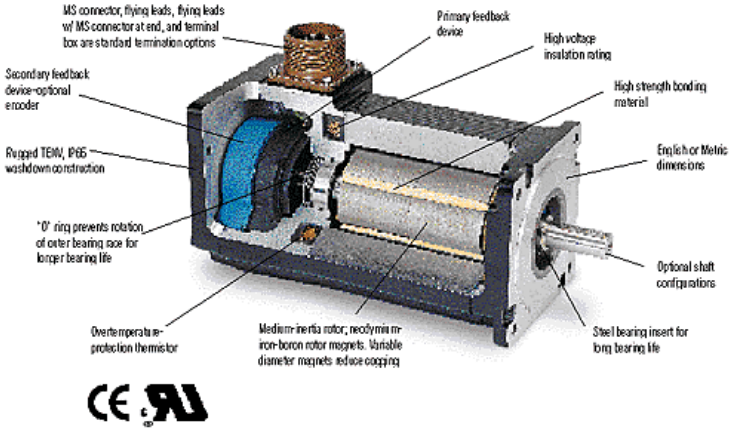
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Sample Model Number Code - NEMA 23 Frame

This chart identifies the components of a typical model number code for SENTRY Brushless Servomotors. Contact your Pacific Scientific Distributor or the Customer Center (815/226-3100, FAX 815/226-3148 or E-mail) for additional information and application assistance.

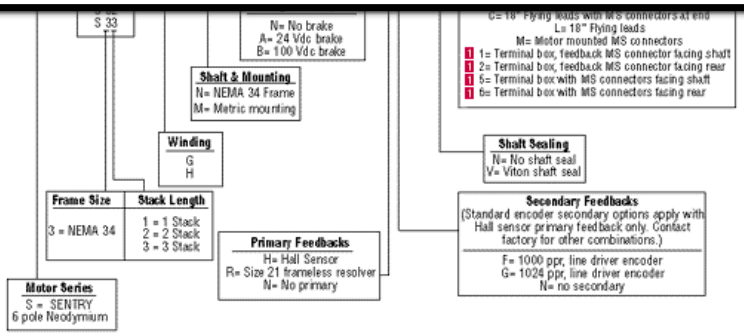


http://www.pacsci.com:80/products/servo_motors/sseriesproduct.html Go NOV NOV MAR
10 captures
15 May 2003 - 14 Nov 2013
2003 2004 2006
About this capture



Sample Model Number Code - NEMA 34 Frame

This chart identifies the components of a typical model number code for SENTRY Brushless Servomotors. Contact your Pacific Scientific Distributor or the Customer Center (815/226-3100, FAX 815/226-3148 or E-mail) for additional information and application assistance.



Terminal Box options 1 & 2 have a terminal block for motor power, brake, and ground connections with a standard MS connector for feedback(s), and PTC connections with front or rear facing orientation. Terminal box options 5 & 6 provide standard MS connectors for motor power, feedback(s), PTC, and brake connections with front or rear facing orientation. Contact Pacific Scientific for termination options.

Click Here to Download S Series Servo Motor Information

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