Pacific Scientific — S Brushless Motors

S32HNNA-RNVM-00



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The **S32HNNA-RNVM-00** is a six-pole, neodymium-magnet brushless servo motor manufactured by Pacific Scientific within the S Brushless Motors series. Designed for industrial automation, the unit converts regulated DC-bus energy into precise rotary motion for indexing tables, packaging lines, and electronic assembly cells. A size 21 frameless resolver provides primary position feedback, while no secondary feedback device is fitted. This arrangement allows the drive controller to read the rotor angle without relying on redundant sensors.

With a 480 V bus, the motor reaches **3,900 rpm** and supplies **2.8 Nm** of continuous torque. At standstill, it sustains **4.0 Nm** while drawing 6.1 ARMS. Short-duty movements can use a peak current of **21.4 ARMS** to produce **11.3 Nm** of torque. The housing has an **IP65** rating, protecting the internal components against dust and low-pressure water jets. Its electrical constants include a torque constant of 0.7 Nm/ARMS, a voltage constant of 0.44 VRMS/rad/sec, a resistance of 1.6 ?, and an inductance of 4.5 mH. The motor uses an H winding and a two-stack core. It is supplied without a brake, so stationary load holding must be provided by the drive, external gearing, or another mechanical device. Electrical terminations use a motor-mounted MS connector, and a Viton shaft seal protects the shaft opening.

The motor uses a NEMA 34 frame and a NEMA flange, allowing installation in compatible machine assemblies without an additional mounting adapter. It weighs **4.9 kg**, which must be considered when sizing moving-axis supports and calculating the total mechanical load. The rotor inertia is **0.34 × 10?³ kg·m²**, supporting rapid acceleration and deceleration during short positioning cycles. Thermal performance includes a shaft-to-ambient

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resistance of **0.97 °C/W** and a thermal time constant of 24 minutes. These thermal values help users establish appropriate operating cycles while keeping the motor windings within their permitted temperature range. The standard mounting arrangement supports horizontal or vertical installation when the connected structure provides adequate alignment and load support.

Specifications

Continuous Rated Torque (480v):	2.8 Nm	**Continuous Stall Current:**	6.1 ARMS	**Continuous Stall Torque:**	4.0 Nm
Holding Brake:	No brake	**Inductance (line-to-line):**	4.5 mH	**Motor Weight:**	4.9 kg
Mounting Standard:	NEMA Frame	**NEMA Frame Size:**	NEMA 34	**Peak Current:**	21.4 ARMS
Peak Torque:	11.3 Nm	**Primary Feedback Device:**	Size 21 frameless resolver	**Product Type:**	6-pole Neodymium magnet brushless servo motor
Protection:	IP65	**Rated Speed (480v Bus):**	3,900 rpm	**Resistance (line-to-line):**	1.6 Ohms
Rotor Inertia:	0.34 kgm^2 x10^-3	**Secondary Feedback Device:**	No secondary feedback	**Shaft Seal:**	Viton shaft seal
Stack Length:	2 Stack	**Termination Style:**	Motor mounted MS Connector	**Thermal Resistance:**	0.97 C/W
Thermal Time Constant:	24 min	**Torque Constant:**	0.7 Nm/ARMS	**Voltage Constant:**	0.44 VRMS/rad/sec
Winding Type:	H	**Last Verified:**	10/31/2026 3:23 PM		

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