



## ClearPath<sup>®</sup> - Integrated Servo System

### CPM-SDHP-N1433A-ELN\_Fan

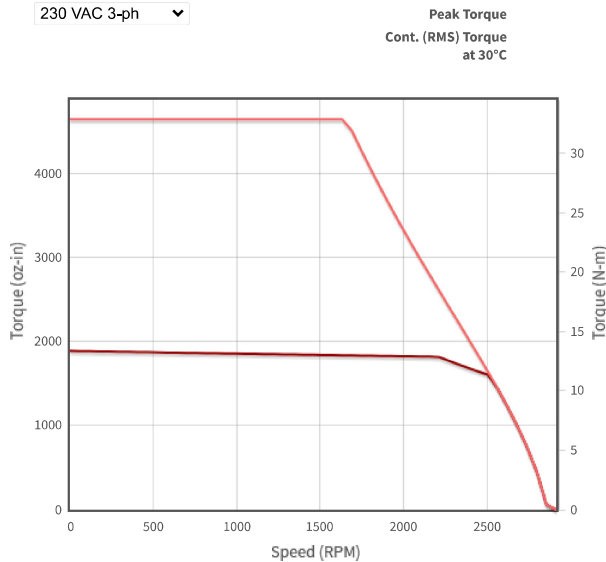
The ClearPath-SDHP model allows you to precisely servo-control position (and velocity) using "step & direction" (or quadrature A/B) command signals. These digital signals are commonly used to control stepper motors and digital servos, so they are available from a wide variety of products including PLCs and stand-alone motion control "indexers". Compared to ClearPath-SDSK models, which also use step & direction control signals, the SDHP models have more peak torque, and come standard with enhanced positioning resolution for a moderately higher price.

### Operating Modes

Step and Direction	One ClearPath input counts steps from your motion controller, the other input determines if the steps are made in the clockwise or counter-clockwise direction.
Quadrature A/B	Quadrature input allows you to use the output of a quadrature encoder to command position and speed. Or, you can use an indexer or PLC with quadrature outputs to command at a speed that is 4x the output frequency (because each edge counts as a "step").

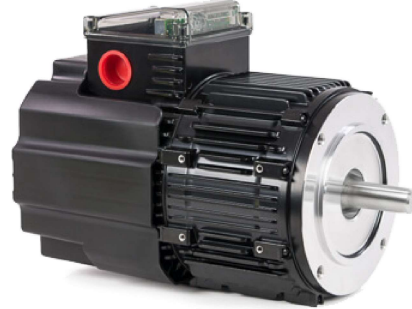
### Torque/Speed Curves

230 VAC 3-ph ▼



### Specifications at 230 VAC 3-ph

Peak Torque	4,652 oz-in (32.9 N-m)
Cont. (RMS) Torque	1,891 oz-in (13.4 N-m)
Max Speed	2760 RPM
Peak Power	5,647 W (7.57 hp)
Cont. (RMS) Power	2,981 W (4.00 hp)



\*AC blower kit ships separately and requires single-phase 230 VAC

### Purchase

Qty 1-9	Qty 10-49	Qty 50-99	Qty 100-199	Qty 200+
<b>\$1,232</b>	\$1,215	\$1,188	\$1,157	Call

### Shaft Seal +

No ▼

### Quantity

1

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Includes motor and [AC blower kit](#)

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Motor and Blower Kit

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### Accessories

Click the "See Accessories" button to view a list of required and recommended accessories to complete your ClearPath system. Select from assorted cables and more. Also, download your free copy of ClearPath software.

**See Accessories** >

### Specifications (with blower kit installed)

Motor Frame Size	NEMA 143 - 7.47 in (189.74 mm) sq.
Length	11.34 in (288.04 mm)
Input Voltage Range	100-240 VAC (1- or 3-phase)
Input Voltage for 5-wire systems	300-415 VAC (3-phase, 5-wire)
Peak Torque (@230 VAC 3-ph)	4,652 oz-in (32.9 N-m)
Cont. (RMS) Torque (@230 VAC 3-ph)	1,891 oz-in (13.4 N-m)
Max Speed (@230 VAC 3-ph)	2760 RPM
Achievable Resolution +	0.029 degrees
Repeatability	0.006 degrees
Shaft Diameter	0.875 in (22.23 mm)
Weight	27.2 lb (12.3 kg)
Rotor Inertia	103.9 oz-in <sup>2</sup> (19.0 kg-cm <sup>2</sup> )
Logic Input Voltage Range	4.0 to 28 VDC
Maximum Radial Load	170 lbf (756.2 N)
Maximum Thrust Load	40 lbf (177.9 N) in; 70 lbf (311.4 N) out
Environmental Rating	IP65; blower kit not IP rated *
Ambient Temperature	0-70 deg C (derated >40C)
Ambient Humidity	0-95%; non-condensing
Regulatory Certifications	UL Recognized for use up to 240 VAC; CE certified for use up to 415 VAC; RoHS
Country of Origin	USA
Warranty	3 Years

\*Order the shaft seal option if you want the IP-65 rating to cover the front mounting face of the motor in addition to the body.

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