

## 34VL005

NEMA 34 Planetary Gearhead



### **Product Features**

- *True planetary design*
- *Compact design*
- *Sealed ball bearings*
- *Heat treated gears*
- *High efficiency design*
- *AGMA gear quality*

### Description

The 34VL005 planetary gearhead offers true planetary performance at an excellent price. High strength, heated treated gears provide for efficient transmission of torque and accurate speed matching.

Additional mounting hardware is required to mount this gearhead to any of the following motors: Stepper motors HT34-504, HT34-505, and HT34-506. Servo motors M0750-102-5-000, M0750-152-5-000, M0600-102-5-000, M0600-152-5-000, and all N series NEMA 34 servo motors with model format of Nxxx-xxx-C-xxx. Please note that the charge for the adaptor is \$150 and lead time will be extended by 2-4 weeks.

Additional hardware is also required for the HT34-487, HT34-490, and HT34-497 stepper motors, which will extend the lead time to 2-4 weeks. An additional charge will apply for any VL series gearhead chosen for use with one of these motors.

## Specifications



<b>Part Number:</b>	34VL005
<b>Frame Size:</b>	NEMA 34
<b>Ratio:</b>	5:1
<b>Torque, Nominal:</b>	702 in-lb
<b>Torque, Max Accel:</b>	884 in-lb
<b>Torque, E-Stop:</b>	1429 in-lb
<b>Length:</b>	3.33 inches
<b>Weight:</b>	5.0 lbs
<b>Input Speed:</b>	5000 rpm max
<b>Backlash:</b>	12
<b>Low Backlash:</b>	0
<b>Operating Temperature:</b>	-40 to 120 °C
<b>IP Rating:</b>	IP54
<b>Service Life:</b>	> 10,000 hours
<b>Efficiency:</b>	90%
<b>Inertia:</b>	3.544E-03 oz-in-sec <sup>2</sup>

## Downloads



**Product PDF - S3 Link:**

<http://s3.amazonaws.com/applied-motion-pdf/34VL005.pdf>

**2D Drawing:**

 [34VL-XXX\\_A.pdf](#)  
 [034vl1stg\\_3D.pdf](#)

**3D Drawing:**

 [34VL-1STG.stp](#)  
 [34VL-1STG.zip](#)

## Products in the Series VL Gearheads

Part Number	Frame Size	Ratio	Length	Output Torque	Backlash	1pc.
<a href="#">17VL010</a>	NEMA 17	10:1	2.41	81	12	\$604.00
<a href="#">23VL005</a>	NEMA 23	5:1	2.46	195	12	\$604.00
<a href="#">23VL010</a>	NEMA 23	10:1	2.46	140	12	\$604.00
<a href="#">23VL015</a>	NEMA 23	15:1	3.14	210	16	\$784.00
<a href="#">23VL025</a>	NEMA 23	25:1	3.14	216	16	\$784.00
<a href="#">23VL070</a>	NEMA 23	70:1	3.14	179	16	\$784.00
<a href="#">34VL005</a>	NEMA 34	5:1	3.33	702	12	\$857.00
<a href="#">34VL010</a>	NEMA 34	10:1	3.33	530	12	\$857.00
<a href="#">34VL015</a>	NEMA 34	15:1	4.26	756	16	\$1086.00
<a href="#">34VL025</a>	NEMA 34	25:1	4.26	778	16	\$1086.00
<a href="#">34VL070</a>	NEMA 34	70:1	4.26	706	16	\$1086.00