

## 23VL005

NEMA 23 Planetary Gearhead



### ***Product Features***

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

### Description

The 23VL005 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 all NEMA 24 size motors and integrated motors. Please note that the charge for the adaptor is \$100 and lead time will be 2-4 weeks. Model numbers affected include all of those that begin with: HT24, HW24, STM24 and SWM24. All StepSERVO models that begin with TSM23 and TXM24, as well as model SSM23IP-4EG, require additional hardware as noted above.

## Specifications

<b>Part Number:</b>	23VL005
<b>Frame Size:</b>	NEMA 23
<b>Ratio:</b>	5:1
<b>Torque, Nominal:</b>	195 in-lb
<b>Torque, Max Accel:</b>	248 in-lb
<b>Torque, E-Stop:</b>	400 in-lb
<b>Length:</b>	2.46 inches
<b>Weight:</b>	1.7 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>	1.202E-03 oz-in-sec <sup>2</sup>

## Downloads

<b>Product PDF - S3 Link:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/23VL005.pdf">http://s3.amazonaws.com/applied-motion-pdf/23VL005.pdf</a>
<b>2D Drawing:</b>	 <a href="#">23VL-XXX_A.pdf</a>  <a href="#">023vl1stg_3D.pdf</a>
<b>3D Drawing:</b>	 <a href="#">23VL-1STG.stp</a>  <a href="#">23VL-1STG.zip</a>

## 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