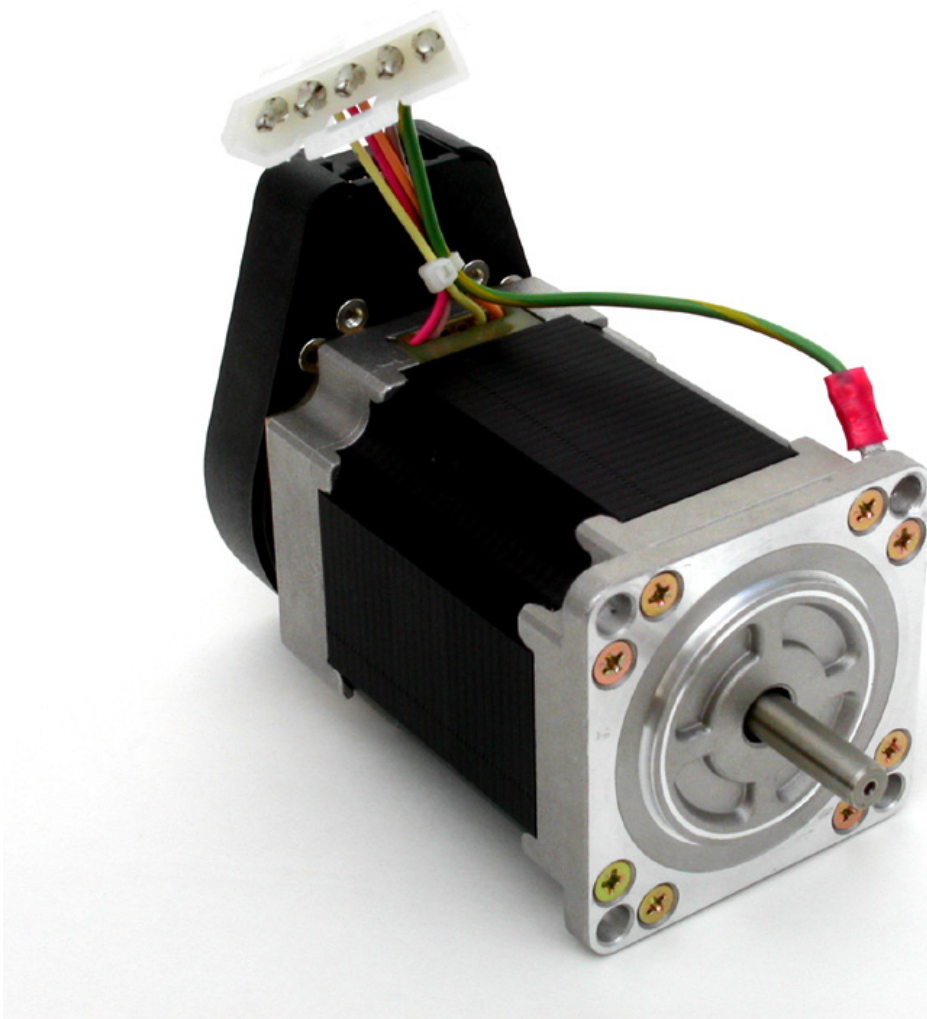


# 23 M-Grade Motor Series Datasheet



QuickSilver Controls, Inc.  
[www.QuickSilverControls.com](http://www.QuickSilverControls.com)

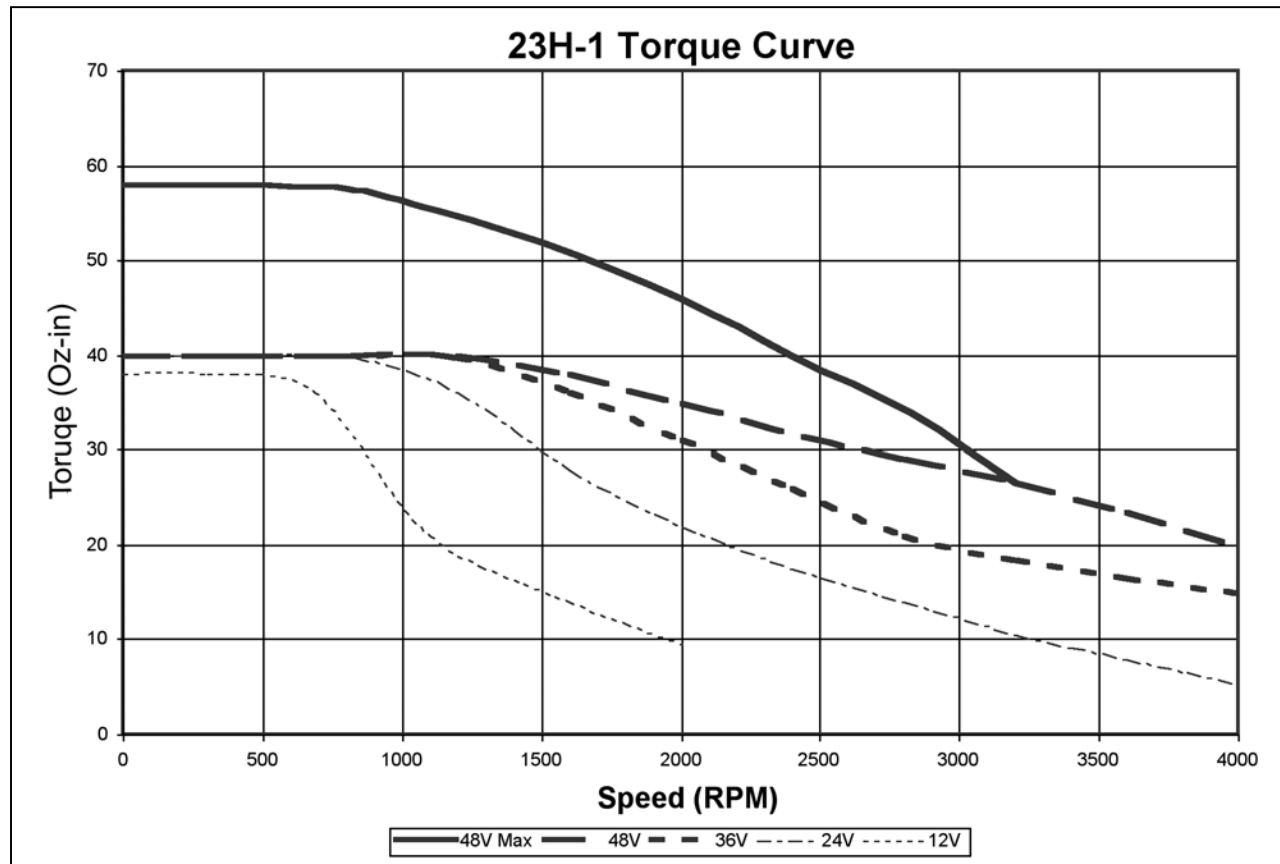
# General Motor specifications

Note: Motor specifications are only true when the M-Grade Motors are used in conjunction with QuickSilver's Controller / Driver Systems such as the SilverNugget™ and the SilverDust™.

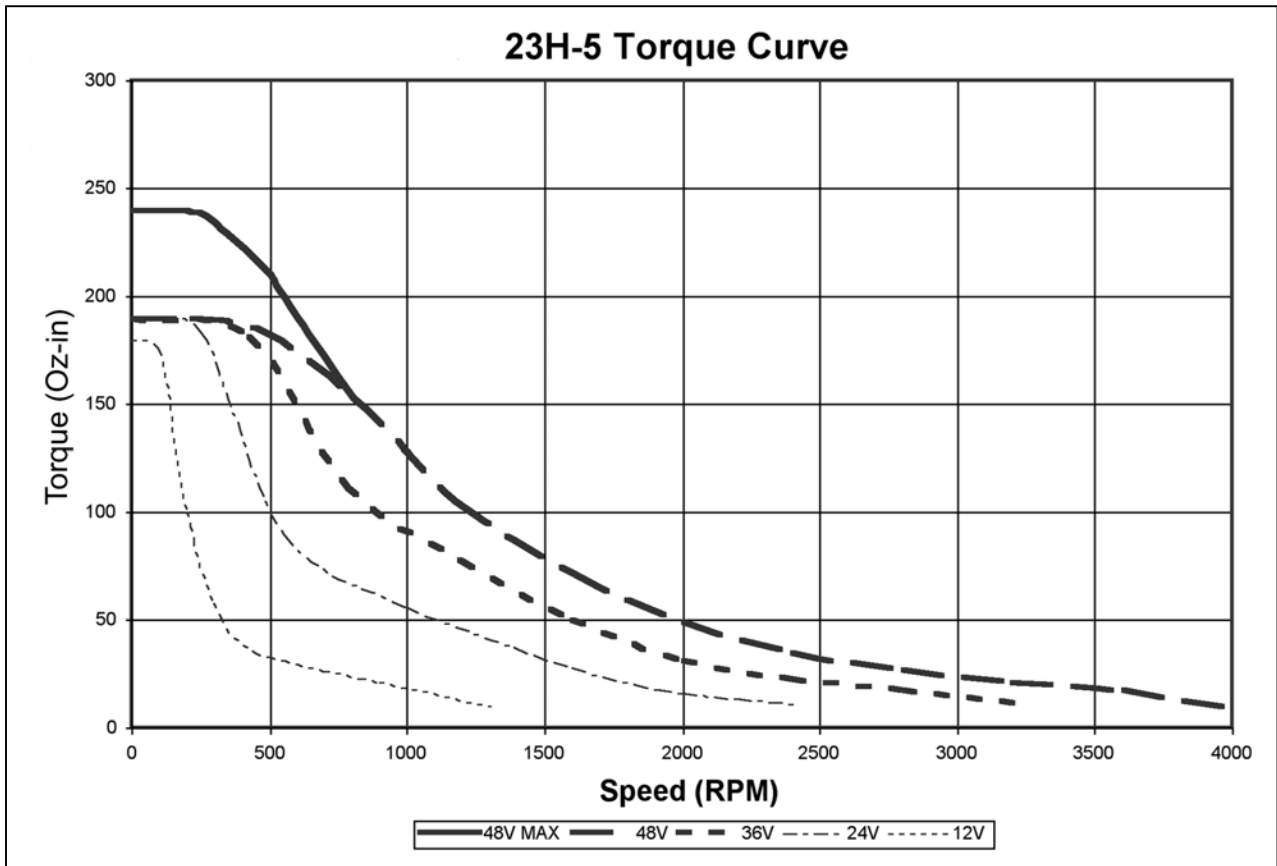
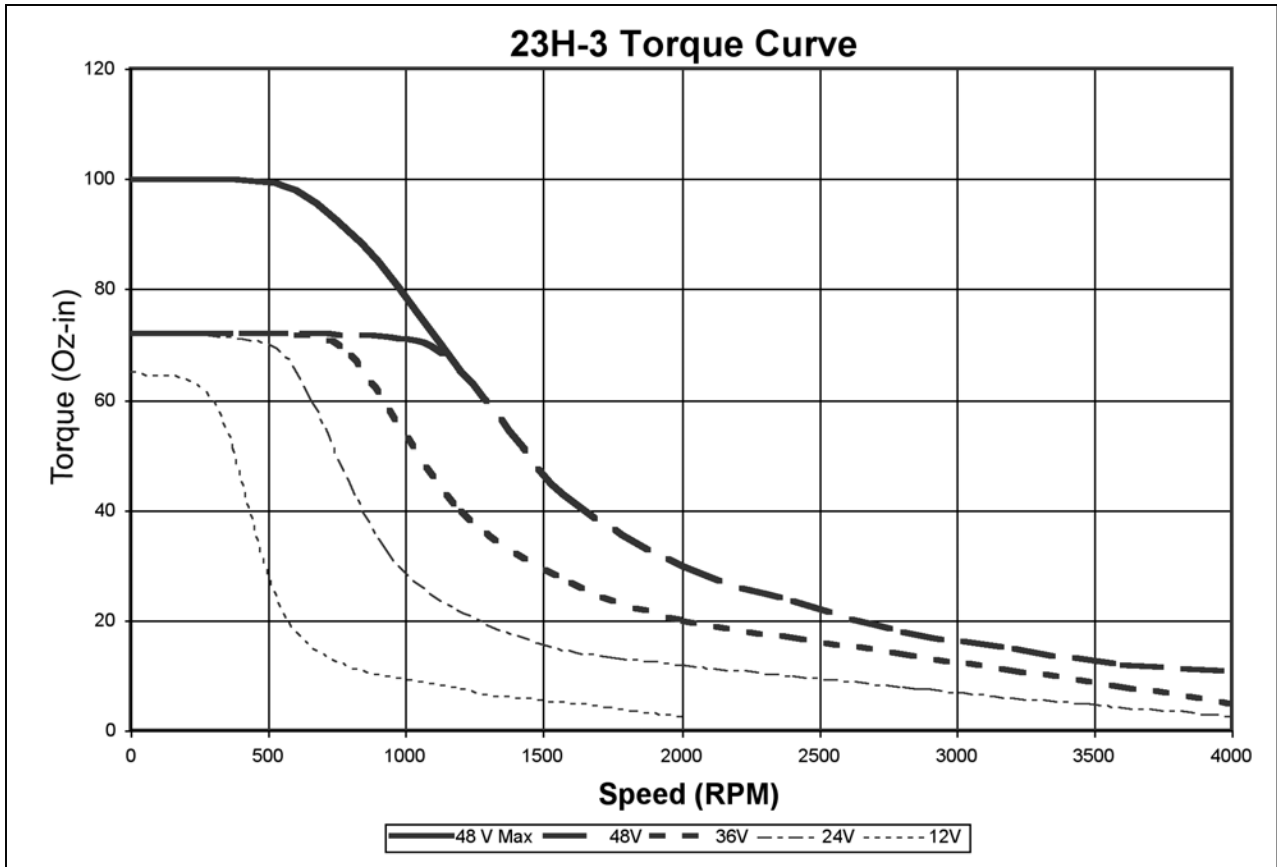
Specifications	23-3	23-5	23H-1	23H-3	23H-5
Maximum Speed (RPM)	2000	2000	4000	4000	4000
Optimal Speed (RPM)	500	200	2500	1500	1000
Torque at Optimal Speed (RPM)*	110	225	31	43	120
Continuous Stall Torque (oz-in)*	125	240	40	72	190
Peak Power (Mech. Watts)	47	47	78	60	95
Rotor Inertia (oz-in <sup>2</sup> )	1.36	2.34	0.74	1.58	2.35

## Torque Curves

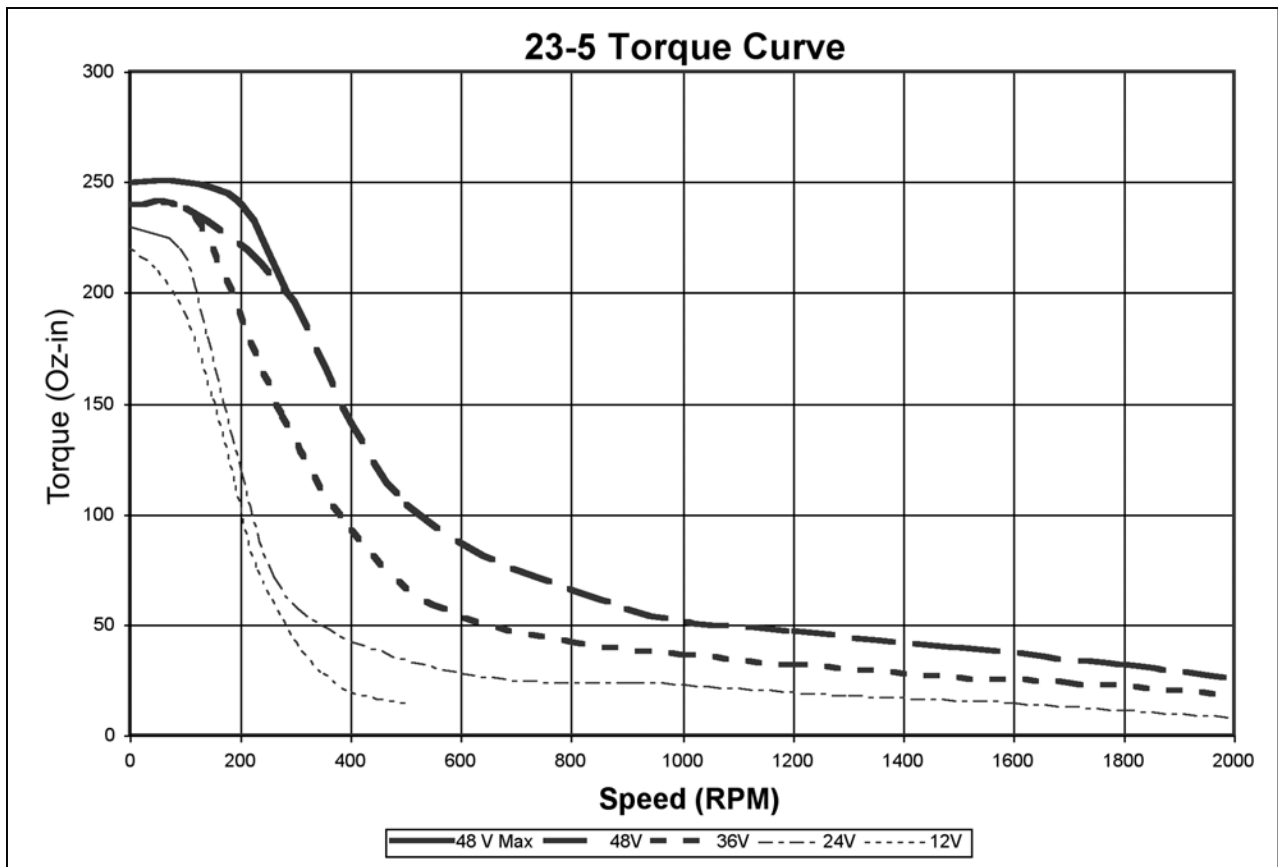
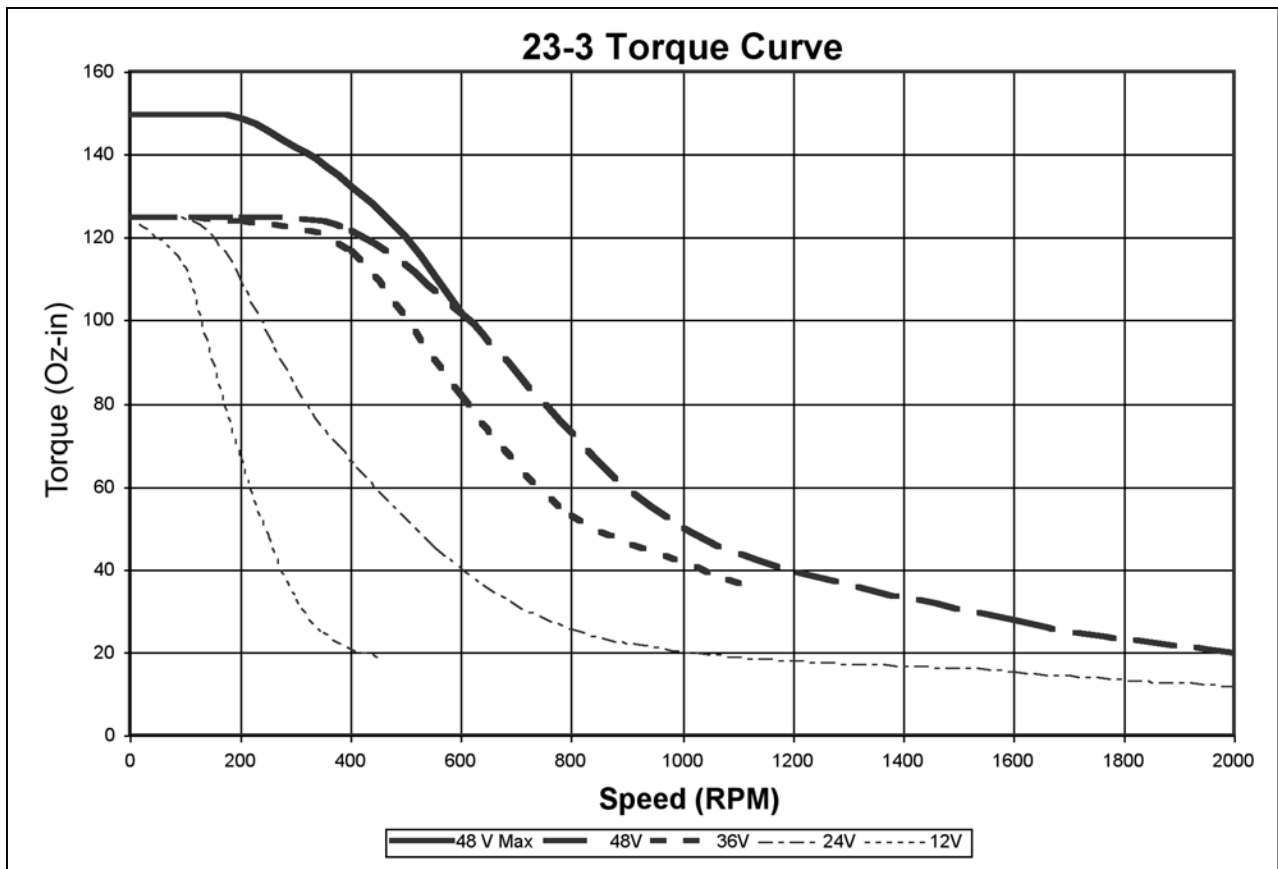
Note: These torque curves are only true when the M-Grade Motors are used in conjunction with QuickSilver's Controller / Driver Systems such as the SilverNugget™ and the SilverDust™.



Note: 48V Max is maximum torque (150% torque) set at the specified voltage.



Note: 48V Max is maximum torque (150% torque) set at the specified voltage.



Note: 48V Max is maximum torque (150% torque) set at the specified voltage.

# Encoder Specifications (All M-Grade NEMA 23 Frame Motors)

Encoder Count Per Revolution: 4000

Index Pulse: 1

## Motor Mechanical Specifications

