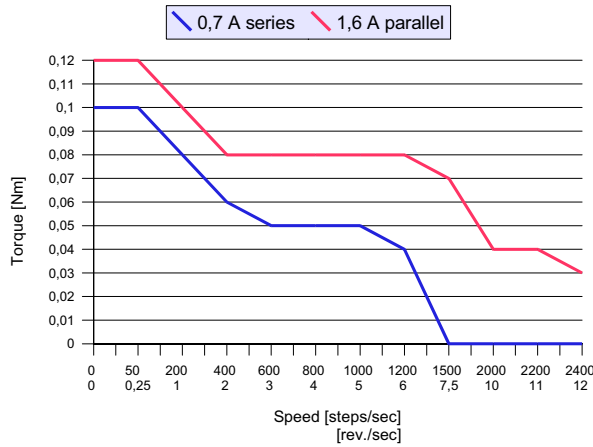


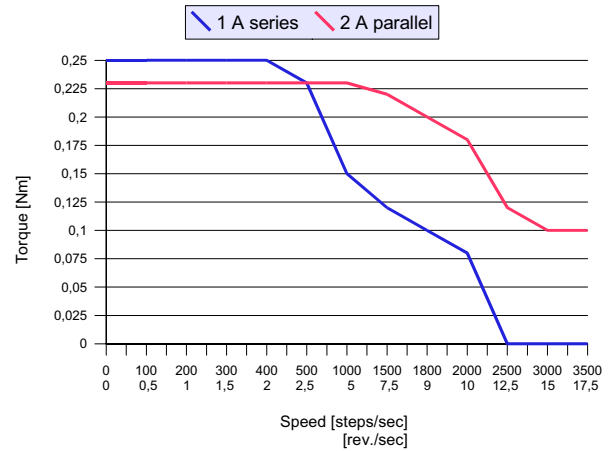
# TORQUE SPEED CHARACTERISTICS

## SL Series

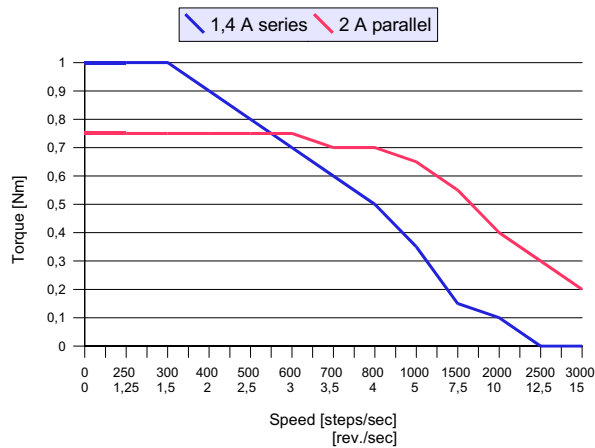
Torque/speed curves of SL17-0601 stepper motor with CD20M board for 35 VDC



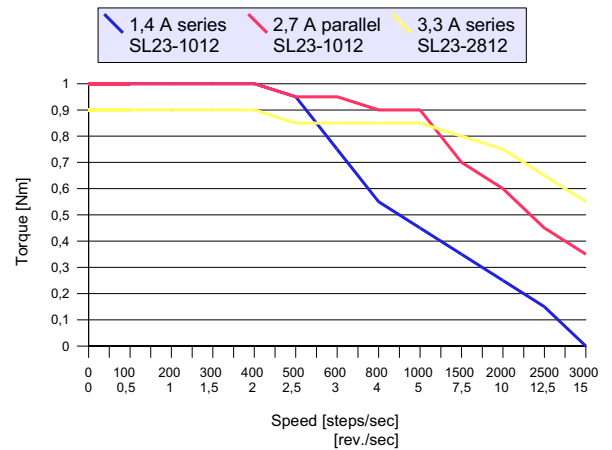
Torque/speed curves of SL23-0704 stepper motor with CD20M board for 35 VDC



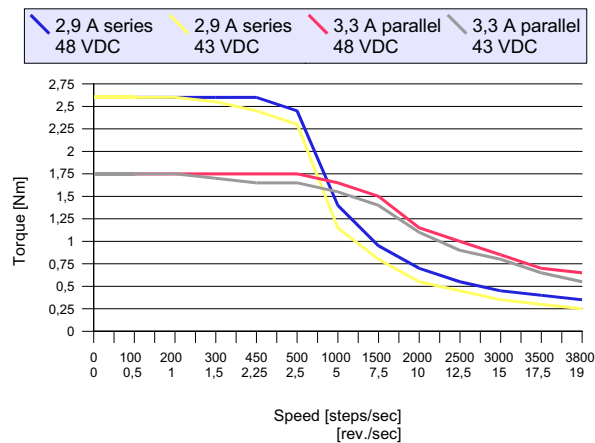
Torque/speed curves of SL23-1012 stepper motor with CD20M board for 35 VDC



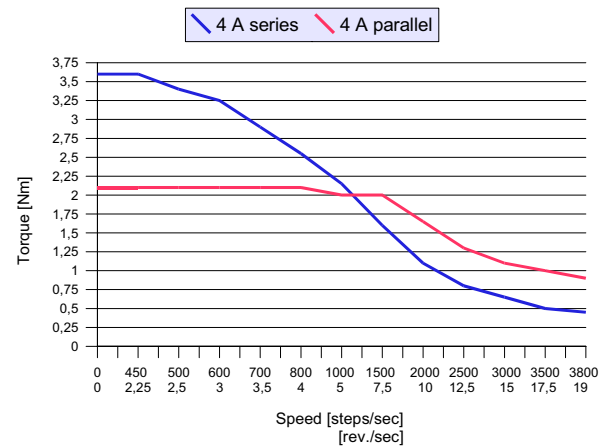
Torque/speed curves of SL23-1012 (SL23-2812) stepper motor with CD30M board for 48 VDC



Torque/speed curves of SL34-2530 stepper motor with CD30M board for 43 VDC and 48 VDC



Torque/speed curves of SL34-3550 stepper motor with CD40M board for 48 VDC

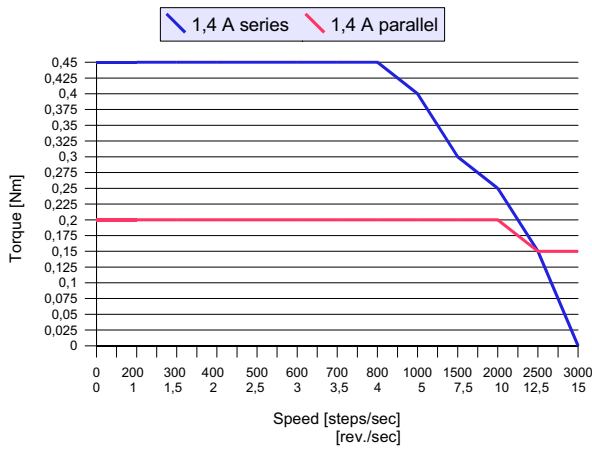


Motor current amplitude / phase is included in the legends.

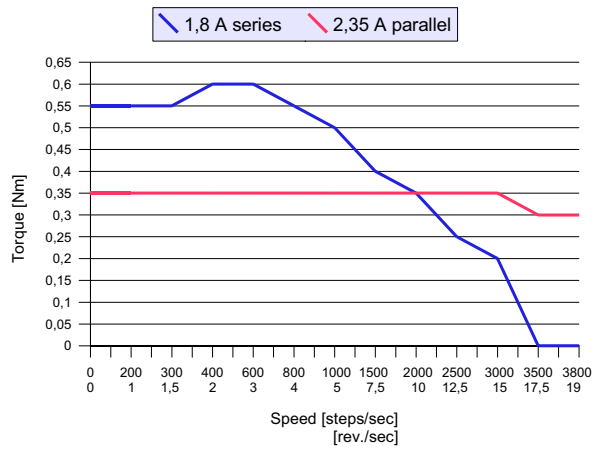
**TORQUE SPEED CHARACTERISTICS**

**SM23, SM31, SM32 Series**

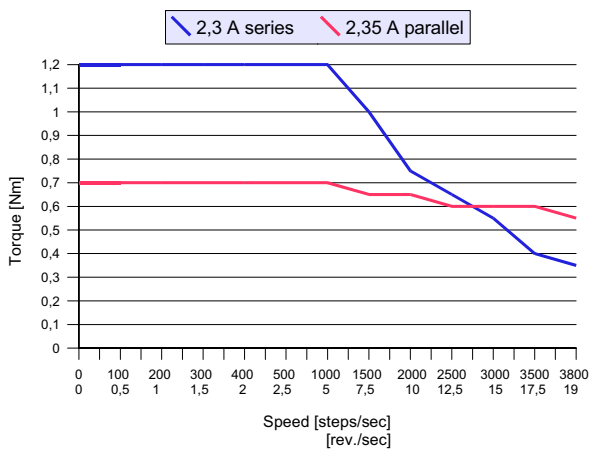
Torque/speed curves of SM2317-0800 stepper motor with CD20M board for 35 VDC



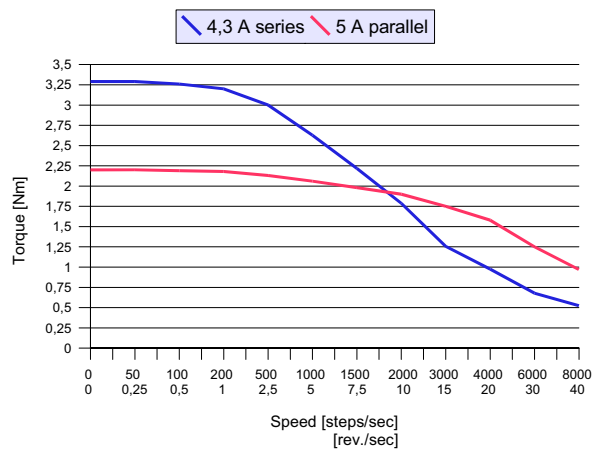
Torque/speed curves of SM2317-0800 stepper motor with CD30M board for 48 VDC



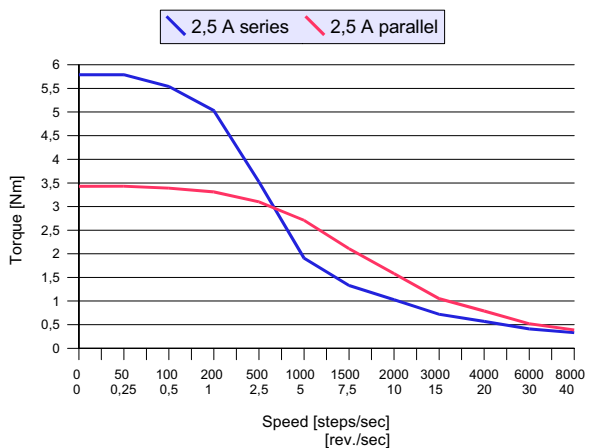
Torque/speed curves of SM2321-1400 stepper motor with CD30M board for 48 VDC



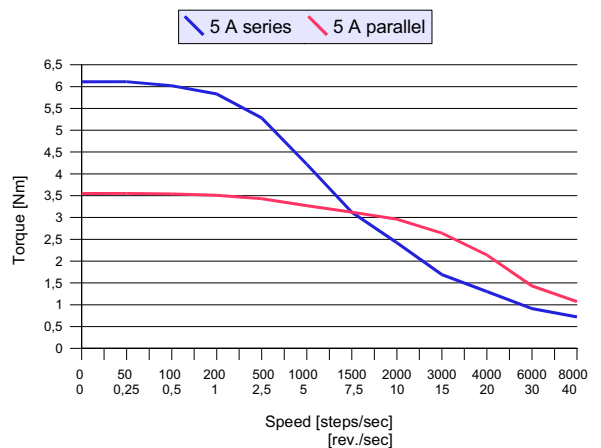
Torque/speed curves of SM31-4304 stepper motor with CD6410M module for 65 VDC



Torque/speed curves of SM32-2508 stepper motor with CD34M module for 48 VDC



Torque/speed curves of SM32-5008 stepper motor with CD6410M module for 65 VDC

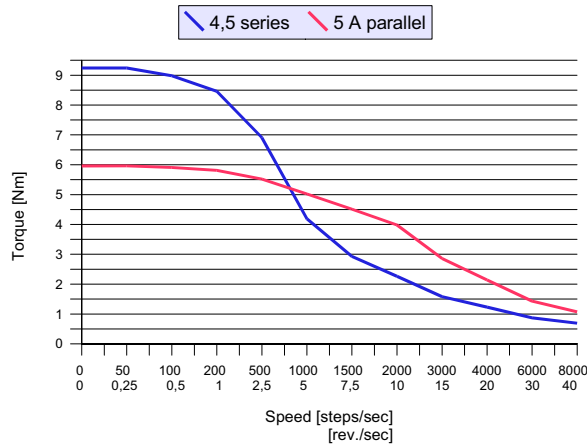


Motor current [A rms] / phase is included in the legends.

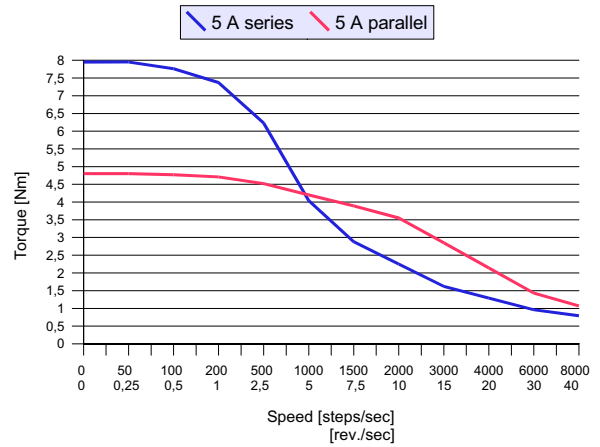
TORQUE SPEED CHARACTERISTICS

SM33, SM41, SM42, SM43 Series

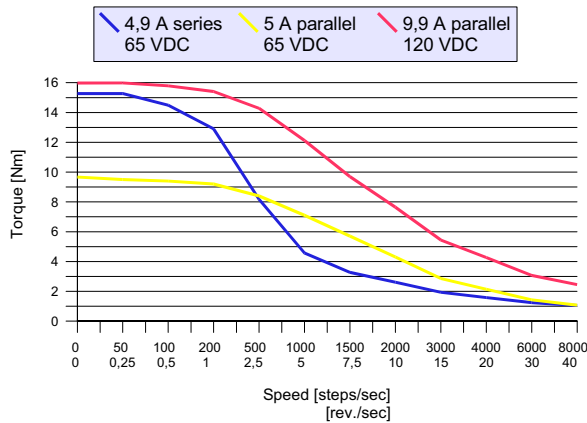
Torque/speed curves of SM33-4513 stepper motor with CD6410M module for 65 VDC



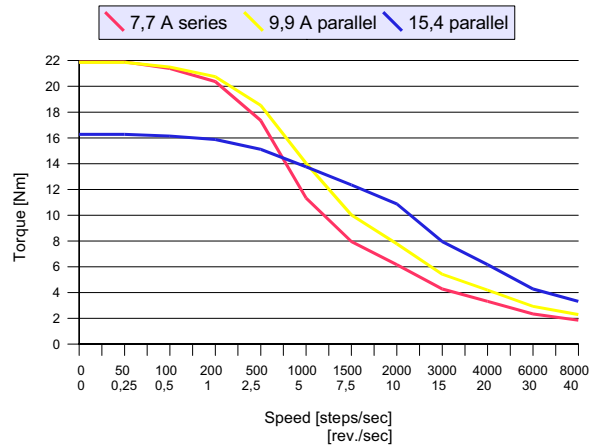
Torque/speed curves of SM41-5311 stepper motor with CD6410M module for 65 VDC



Torque/speed curves of SM42-4922 stepper motor with CD6410M module for 65 VDC and with CDZMP-Mini module for 120 VDC



Torque/speed curves of SM43-7730 stepper motor (SM43-4930 for 9,9 A) with CDZMP-Mini module for 120 VDC



Motor current [A rms] / phase is included in the legends.