Result summary, page 1

Results from ServoTest Rev 1.32
Ola Fremming 2025

General

Servo type: MKS HBL575 SL
Test date: 02-15-2026

Test conditions

Signal freq: 50 [Hz]
Supply voltage: 8.0 [V]

General results

Sensitivity: 99 [°/ms]
Update freq: 610 [Hz]
Non-linearity: 1.02 [%FS]
Dead-band: 12.0 [µs]
Repetition dev.: 0.013 [°]
Stall-torque: 11.6 [kgcm] at 8.01 [V] and 3.3 [A]

Static deviation

#	[kgcm]	[°]	[mA]
1	0.0	0.00	64
2	0.5	-0.00	153
3	1.0	-0.03	261
4	1.5	-0.03	345
5	2.0	-0.03	467
6	2.5	-0.03	551
7	3.0	-0.02	635

Result summary, page 2

Results from ServoTest Rev 1.32
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Accuracy

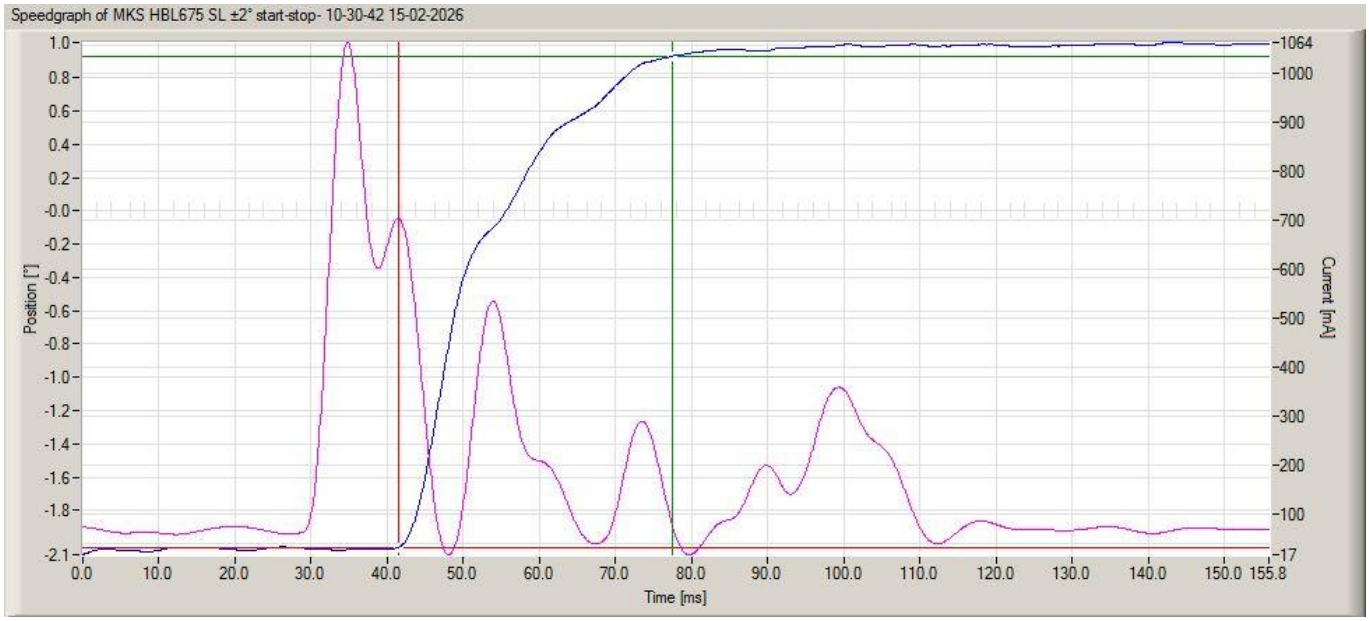
#	[kgcm]	[°]
1	0.0	1.25
2	0.5	1.16
3	1.0	1.14
4	1.5	1.24
5	2.0	1.42
6	2.5	1.66
7	3.0	1.89

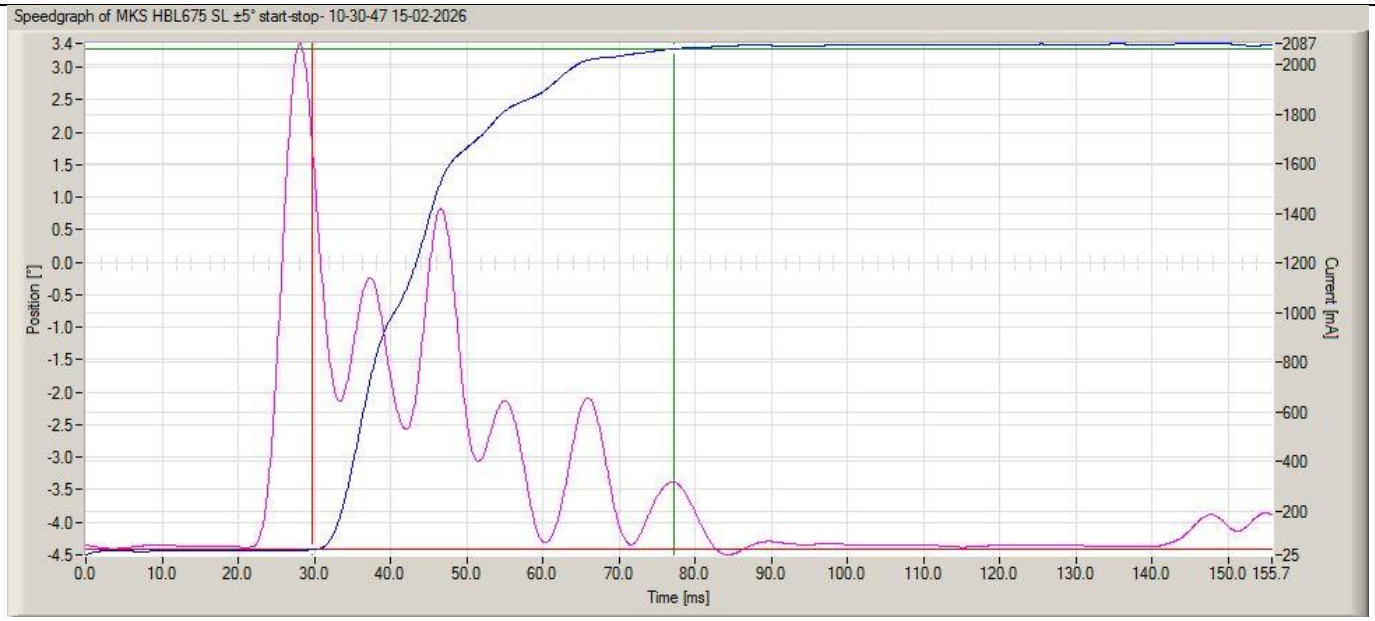
Sweep speed

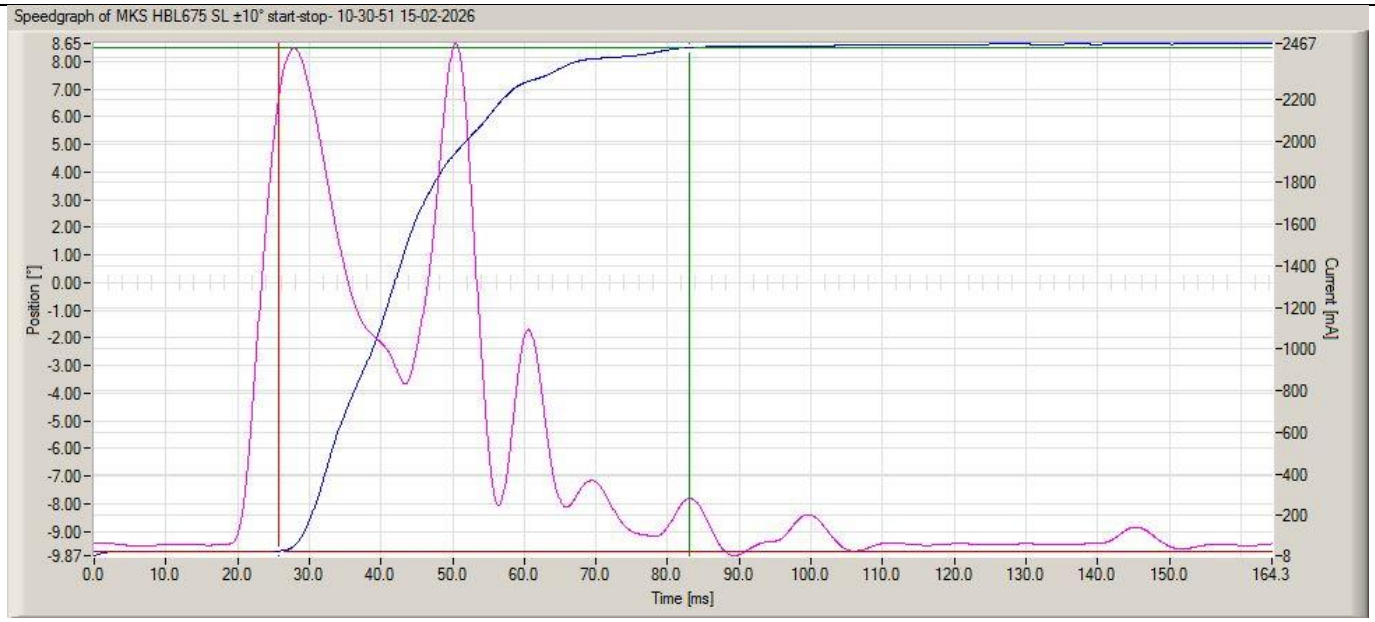
#	[kgcm]	[s/60°]
1	0.0	0.067
2	0.5	0.070
3	1.0	0.073
4	1.5	0.076
5	2.0	0.081
6	2.5	0.086
7	3.0	0.092

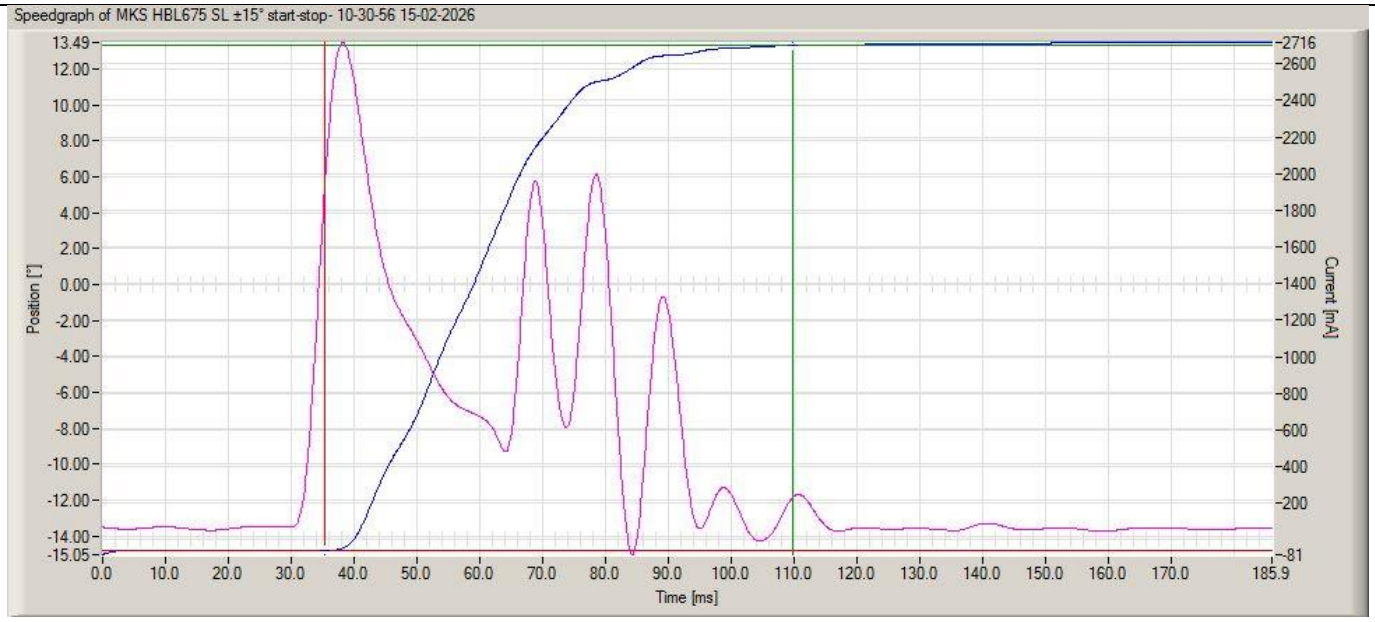
Start-stop speed

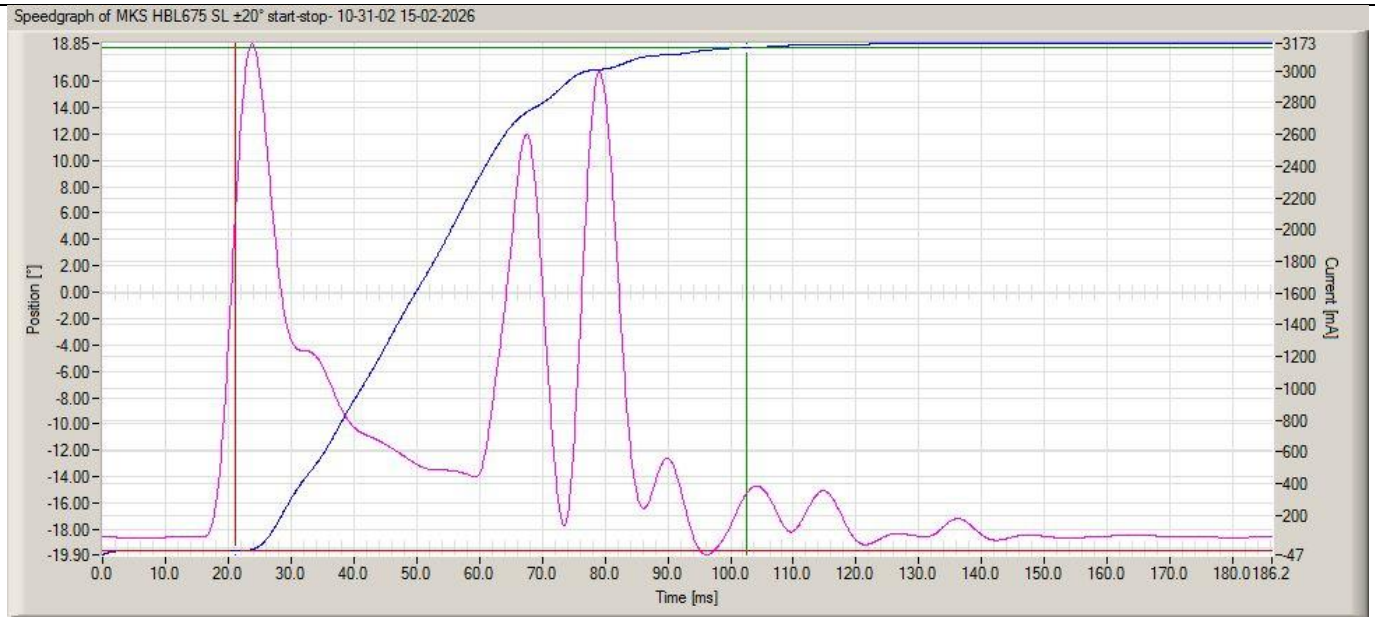
#	±[°]	[s]
1	2.5	0.061
2	5.0	0.062
3	10.0	0.063
4	15.0	0.079
5	20.0	0.085
6	25.0	0.066
7	30.0	0.104

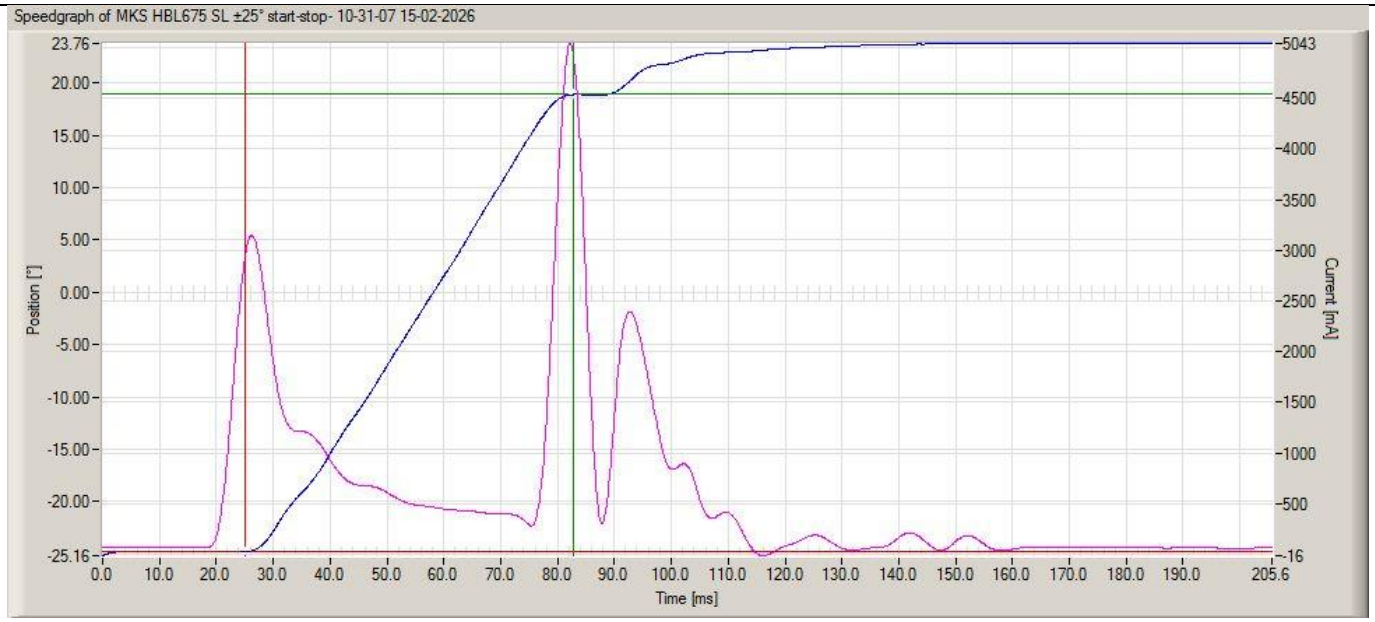


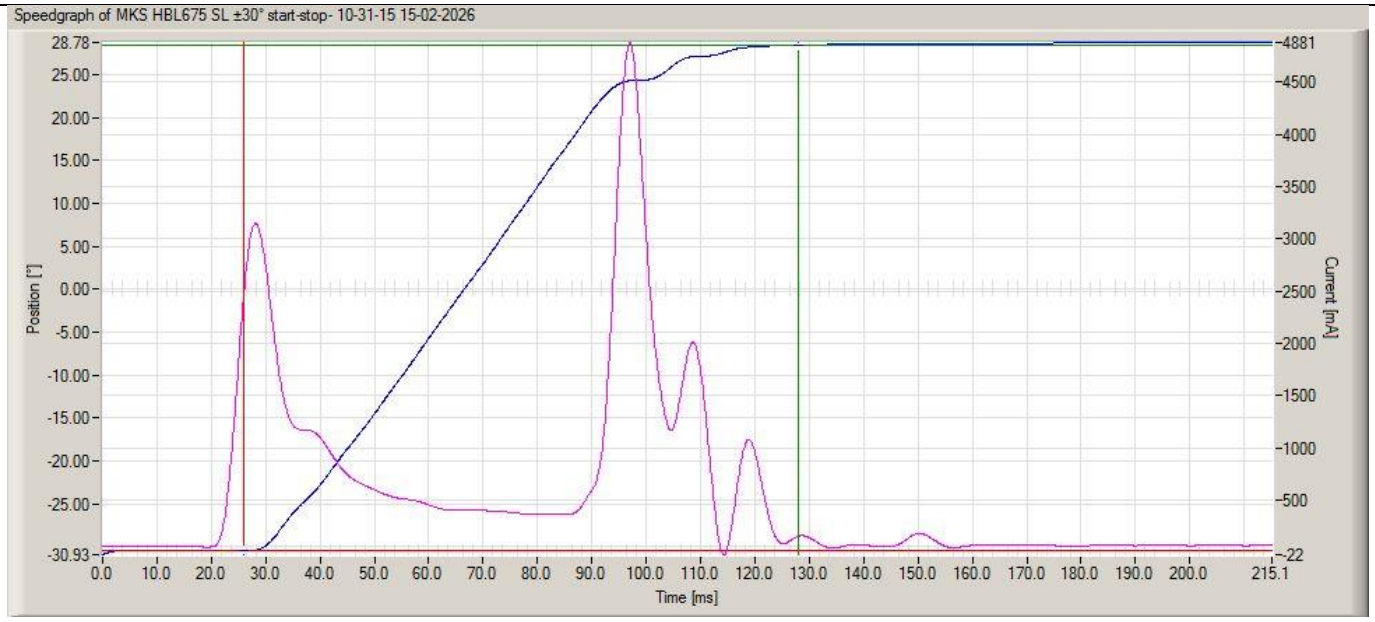

Speedgraph of MKS HBL675 SL ±5° start-stop- 10-30-47 15-02-2026
Position [°]
Current [mA]
Time [ms]

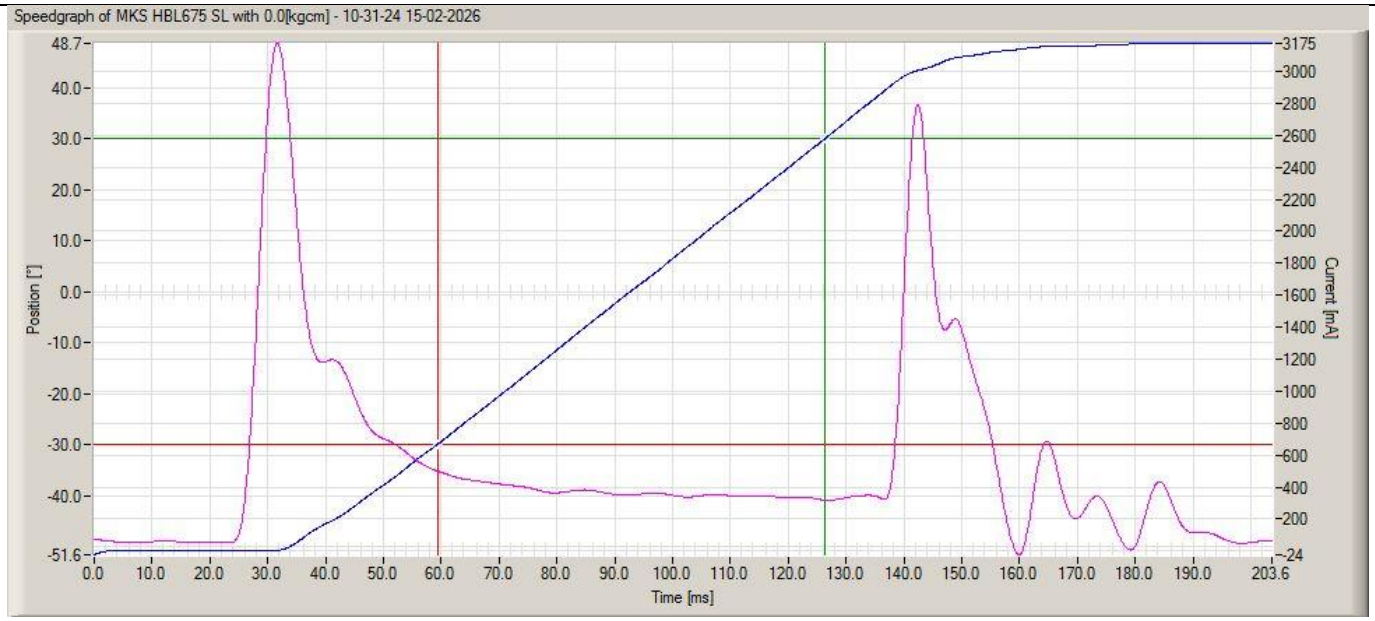

Speedgraph of MKS HBL675 SL ±10° start-stop- 10-30-51 15-02-2026
Position [°]
Current [mA]
Time [ms]

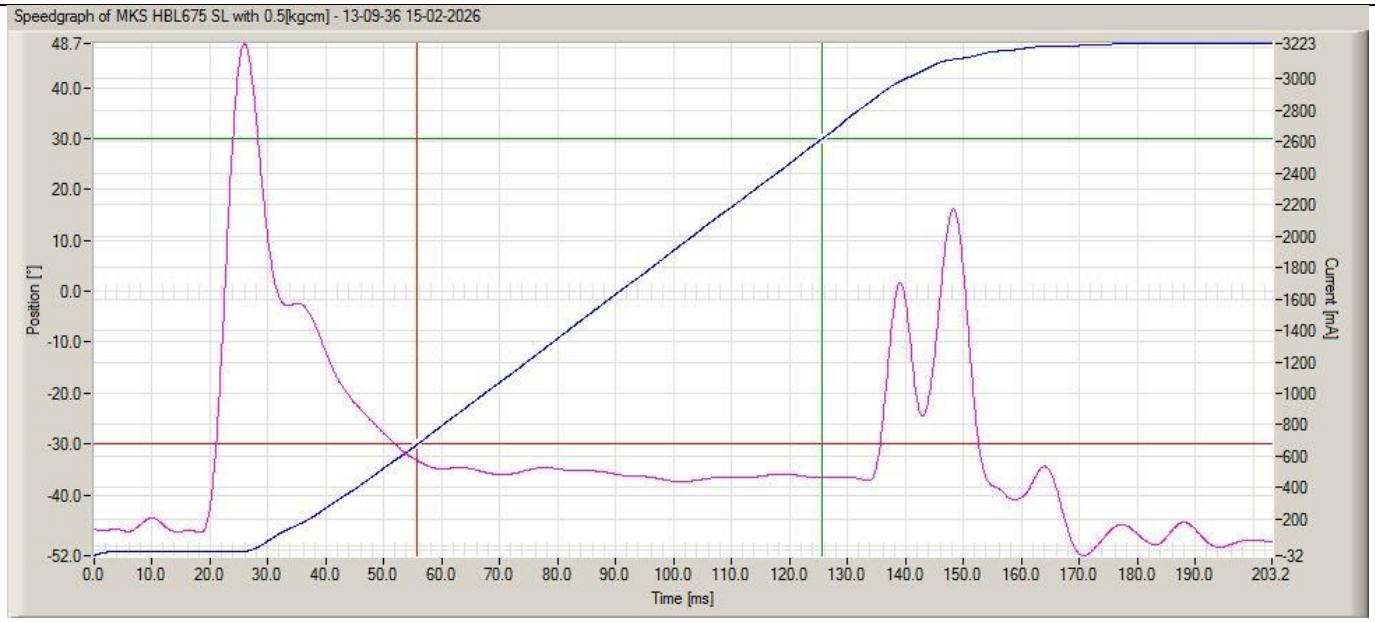

Speedgraph of MKS HBL675 SL ±15° start-stop- 10-30-56 15-02-2026
Position [°]
Current [mA]
Time [ms]

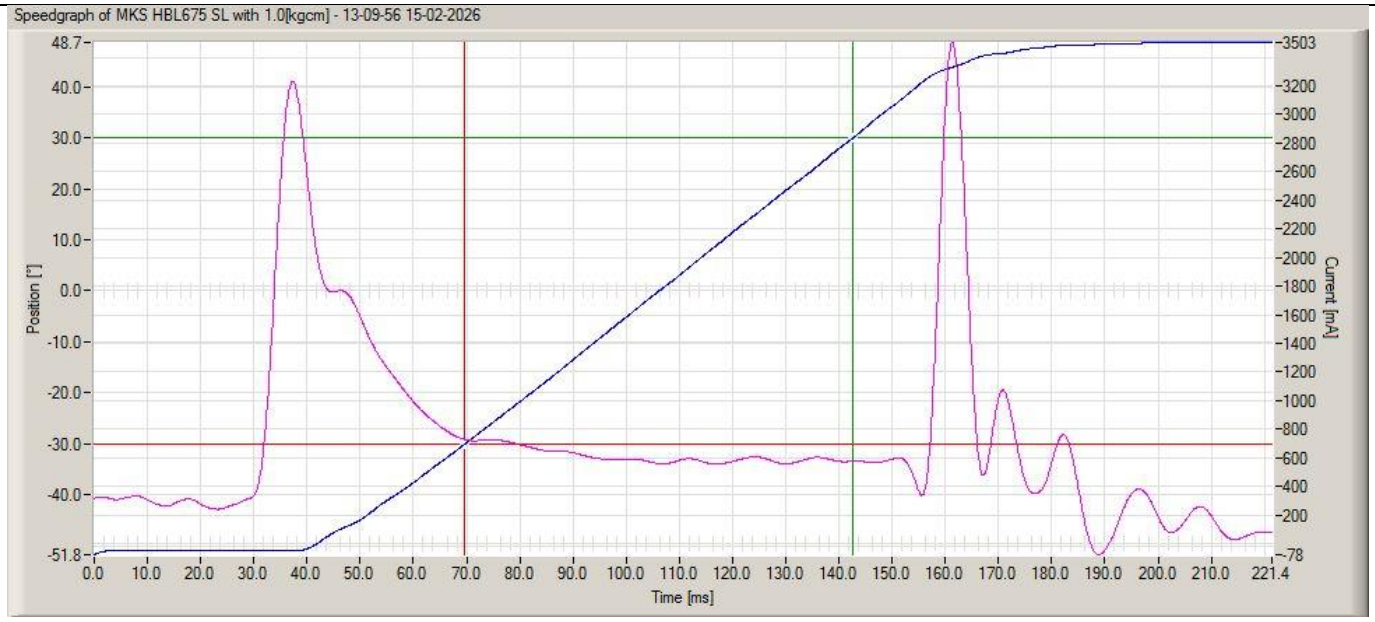

Speedgraph of MKS HBL675 SL ±20° start-stop- 10-31-02 15-02-2026
Position [°]
Current [mA]
Time [ms]

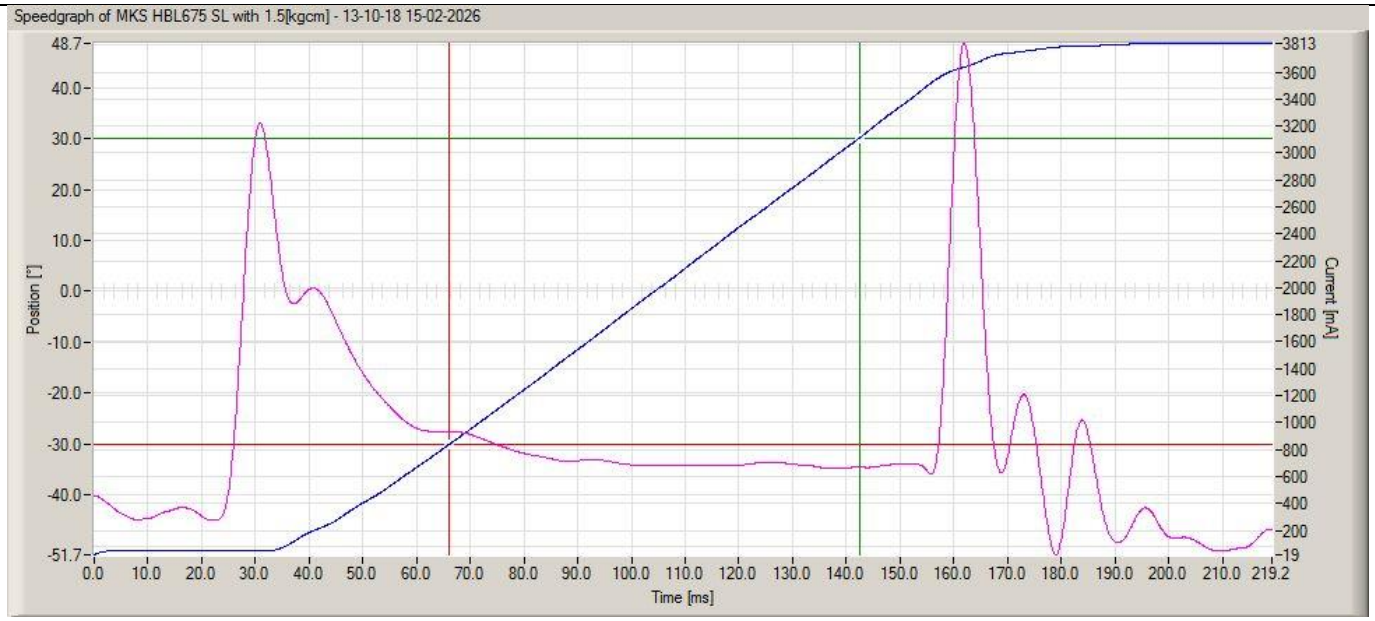

Speedgraph of MKS HBL675 SL ±25° start-stop- 10-31-07 15-02-2026
Position [°]
Current [mA]
Time [ms]

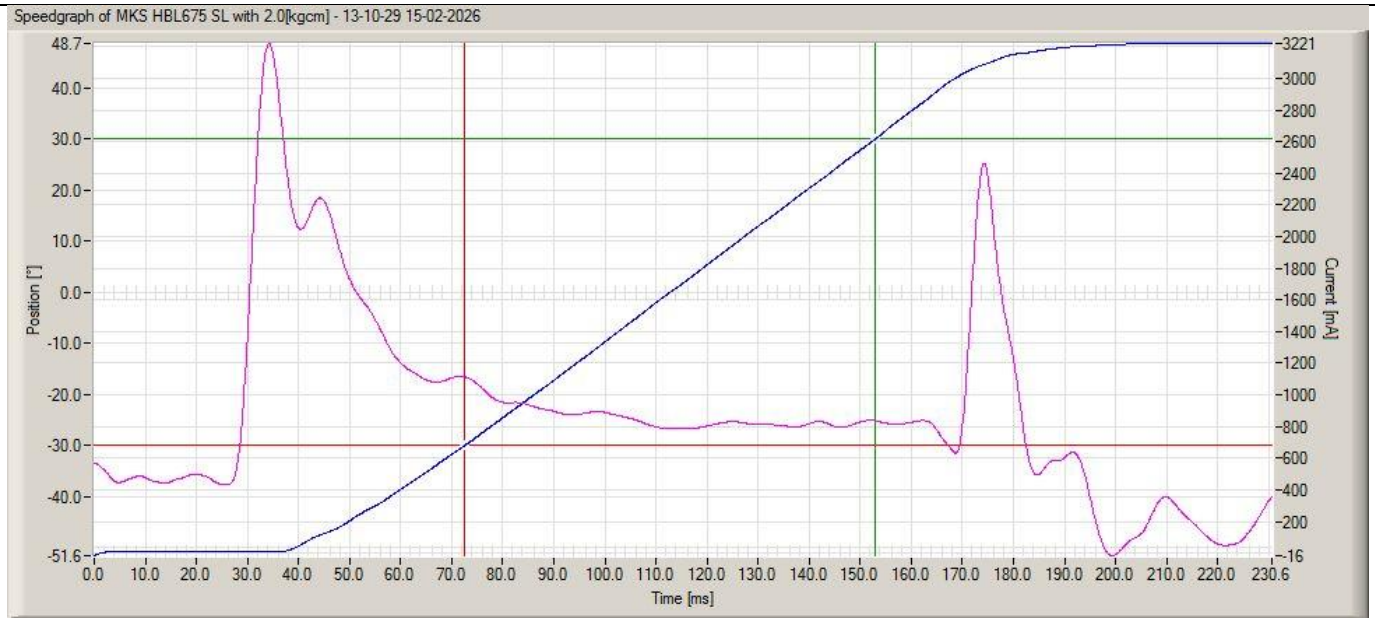

Speedgraph of MKS HBL675 SL ±30° start-stop- 10-31-15 15-02-2026
Position [°]
Current [mA]
Time [ms]

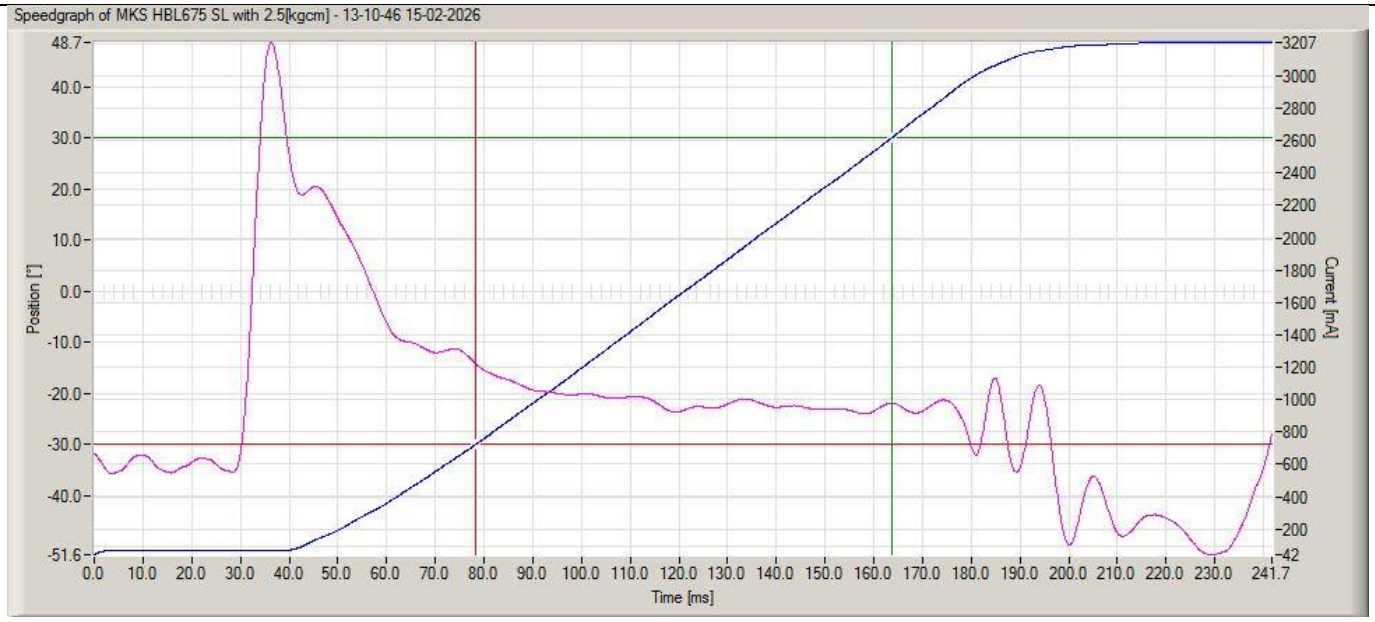

Speedgraph of MKS HBL675 SL with 0.0[kgcm] - 10-31-24 15-02-2026
Position [°]
Current [mA]
Time [ms]

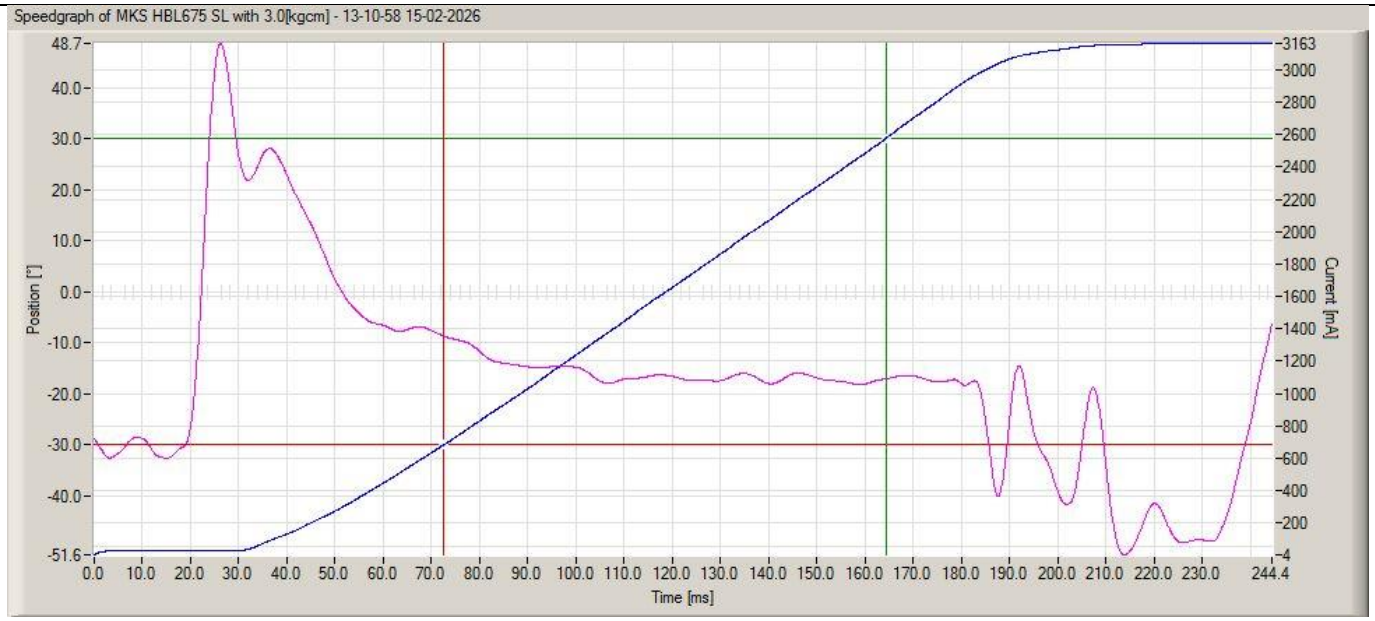

Speedgraph of MKS HBL675 SL with 0.5[kgcm] - 13-09-36 15-02-2026
Position [°]
Current [mA]
Time [ms]

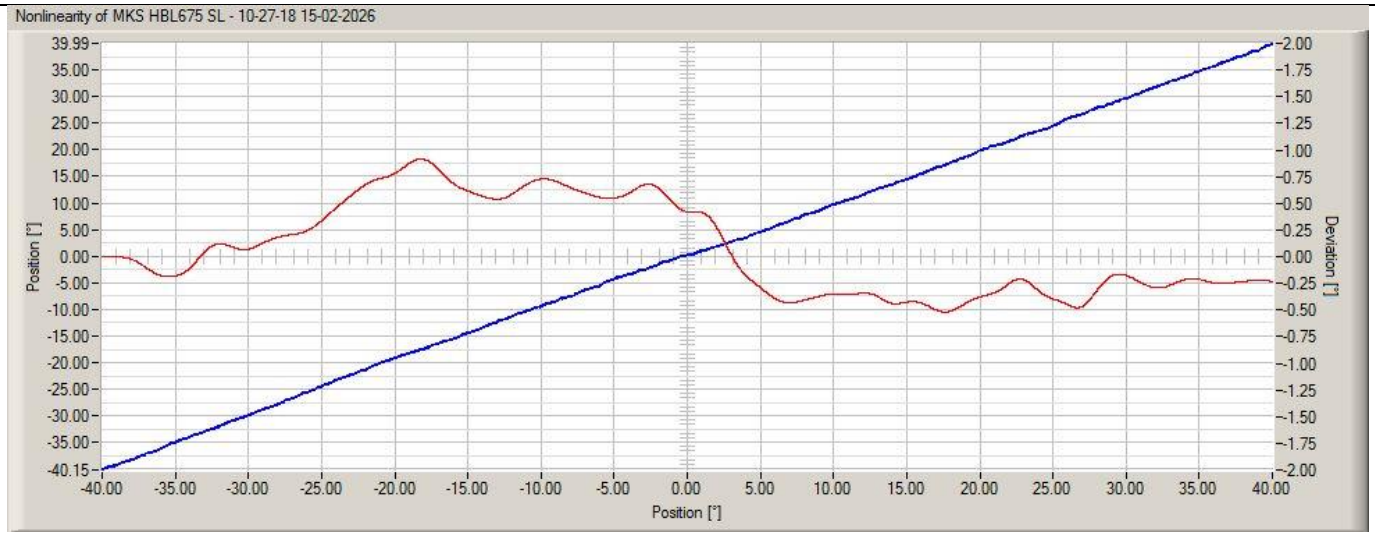

Speedgraph of MKS HBL675 SL with 1.0[kgcm] - 13-09-56 15-02-2026
Position [°]
Current [mA]
Time [ms]

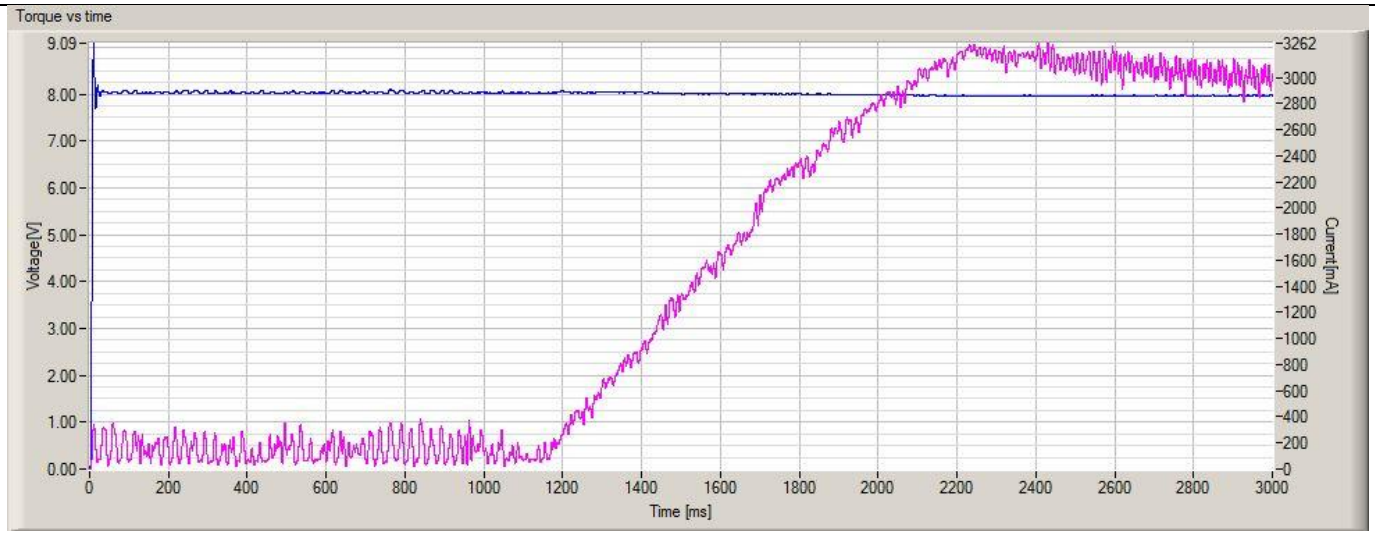

Speedgraph of MKS HBL675 SL with 1.5[kgcm] - 13-10-18 15-02-2026
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HBL675 SL with 2.0[kgcm] - 13-10-29 15-02-2026
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HBL675 SL with 2.5[kgcm] - 13-10-46 15-02-2026
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HBL675 SL with 3.0[kgcm] - 13-10-58 15-02-2026
Position [°]
Current [mA]
Time [ms]


Nonlinearity of MKS HBL675 SL - 10-27-18 15-02-2026
Position [°]
Deviation [°]
Position [°]


Torque vs time
Voltage[V]
Current[mA]
Time [ms]