

Programming software

In order to configure the integrated motor drive, please use the PC software called Motolab Starter:
https://www.nilab.at/download/motolab_starter_ver0-0-1-0/?wpdmdl=6631&refresh=635638e9ee1601666595049

The screenshot shows the Motolab Starter software interface. On the left, there is a sidebar with 'DRIVE STATUS' (READY), 'ON/OFF' buttons, 'FAULT RESET', and 'I/O Status' indicators. The main area displays the 'Motion Table' configuration. The table lists 10 motion profiles (Index 0-9) with parameters for Motion type, Position, A, B, C, Waiting, and Trigger mode. Below the table are 'START MOTION' and 'STOP MOTION' buttons, and a 'Digital Outputs Setup' section.

Index	Motion type	Position	A	B	C	Waiting	Trigger mode	
793	0	Polynomial	110,000 mm	600 msec	0 msec	300 msec	10 msec	DIG IN risin
804	1	Polynomial	190,000 mm	600 msec	0 msec	300 msec	10 msec	Auto
815	2	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
826	3	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
837	4	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
848	5	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
859	6	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
870	7	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
881	8	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto
892	9	None	0,000 mm	0 msec	0 msec	0 msec	0 msec	Auto

The screenshot shows the Motolab Starter software interface with the control loops diagram. The diagram illustrates the 'Position Loop', 'Speed Loop', and 'Current Loop' with various gain blocks and feedback paths. Below the diagram is the 'Motion Command' section with input fields for current and speed setpoints, and acceleration/deceleration times.

Motion Command

4128	Current setpoint	0,000 A	84	Acceleration time	2 msec
4134	Speed setpoint	0,000 RPM	85	Deceleration time	2 msec



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