

Drive Electronics

2-Phase Constant Voltage Driver

For combination with:
Stepper motor: AM 0820, AM 1020, AM 1524,
AM 2224

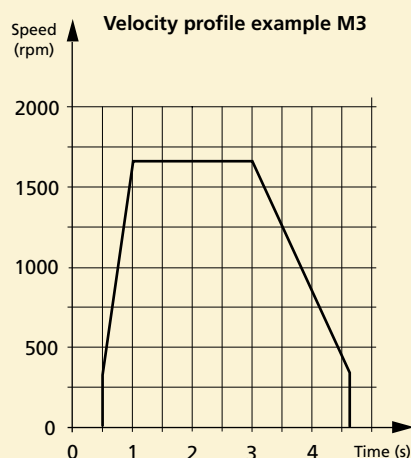
Series AD VM M

	AD VM M1S	AD VM M3S	
Power supply voltage:			
- min.	6	6	V DC
- max.	24	24	V DC
Power supply current	13	15	mA
Output current, max. (for each phase)	500	500	mA
Logic input level:			
- low	0 ... 0,6	0 ... 0,6	V DC
- high	1,6 ... 24	1,6 ... 24	V DC
Direction of rotation	CW / CCW	CW / CCW	
Step mode	full step / half step	full step / half step	
Step frequency:			
- min.	-	10	full step/s
- max.	-	2 000	full step/s
Operating temperature range	0 ... +70	0 ... +70	°C
Weight	22	34	g

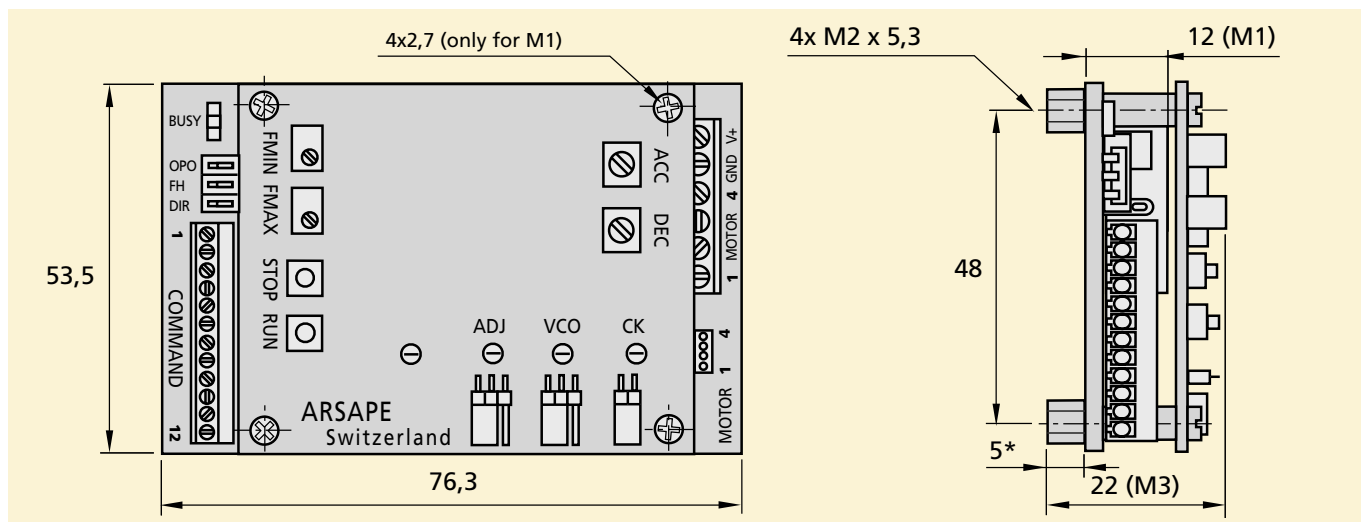
General description / Features / Command connector functions

The drivers type AD VM M_S are designed to drive the voltage mode windings of the ARSAPE stepping motors.

- **AD VM M1S** basic drive composed of a translator (full step and half step mode) and a power stage in voltage mode.
- **AD VM M3S** contains the basic drive AD VM M1S and a pulse generator for ramps. It provides a velocity profile to start and stop the stepper motor with acceleration and deceleration ramps.



Pin	I/O	Sign:	Explanation	M1	M3
1	I	1-PH ON	> Full-step; 1-phase ON (wave)	X	X
2	I	FS/HS	> Full Step-Half Step mode switch	X	X
3	I	CCW/CW	> Sense of rotation switch, default = CW	X	X
4	I	CLK	> External clock input	X	X
5	I	RUN	> Starts the clock generator		X
6	I	STOP	> "STOP" : stops the clock generator		X
7	I	INHIBIT	> Disables the phase current(s)	X	X
8	O	BUSY	> Output = Low when clock is active		X
9	I	STY	> Standby	X	X
10	O	VCC	> +5V power supply	X	X
11	O	GND	> Ground potential fi 0 Volt	X	X
12a	I	VCO	> External control voltage for the oscillator (VCO)		X
	O	HOME	> Triggered when Phase 1 is activated with pos current	X	



Specifications subject to change without notice