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STC 102WP is a compact three-axle controller designed to control small and medium size 2-phase stepper motors. The system is mounted on an aluminum L-shaped profile which is additionally cooled by fan. Driver has integrated power supply and requires only external transformer and setting controlling pulses for each axle respectively. ENABLE signal is active by default which allows control using only STEP and DIRECTION signals.

Thanks to option of increasing current value while microstep control (141% full-step current value), driver ensures preservation of power and dynamics with regard to full-step control while decreasing adverse effects of motor resonance influence.

STC102 power stage has number of protection features (over temperature, power supply shutdown, short-circuit protection, under voltage lockout), which makes the controller resistant to harsh operating conditions as well as assembly errors. The controller has also 4 opt insulated inputs which can be used for example to operate limit switches. Driver signal connector is adapted to connect controller PERFORM company which is designed to control movements of 3-axis machines.

Features:

- Integrated power supply capacitor with large capacities,
- Easy control of three independent axes,
- Current up to 2,5 A per phase set by potentiometer,
- Microsteping up to 1/8,
- Opt insulated inputs for limit switches for each axis and emergency stop,
- Control and power signals for controlling unit (5 VDC) on the double-row comb connector.
- Limit switches connection by double-row comb connector.

Technical description

Power supply	20 VAC
Phase current	0,8– 2,5 A
Current setting	Potentiometer
Automatic current reduction	No
Type of work	Bipolar
Step resolution	1, ½, ¼, 1/8,
Step frequency	0 up to 500 kHz
Input signals	TTL, CMOS
Opto insulation	No
Input signals current	For 0 V max 0,5 A
Operation temperature range	0-40°C
Supply indicator	LED diode
Motor connection	ARK terminal block
Signals connection	Pins
Dimensions	100*85*76 mm
Way of mounting	Handle for DIN rail