Ever ELETTRONICA

SDLWD180
SDLWA180
SDLWT180

Stepping Motor Full Digital Drive

Technical characteristics

- Power supply (SDLWD180) : 24÷70 Vdc;
  (SDLWA180) : 24÷48 Vac;
  (SDLWT180) : 115 Vac or 220 Vac;
- Driver type : bipolar chopper;
- Chopper frequency : 40 kHz;
- Phase current rating : 0.5÷5.00 Arms;
- Step angle : from full step to 1/256 sinusoidal current waveforms;
- Protection : over-voltage, under-voltage, DC bus voltage ripple, over-current, open-Phase, drive over-temperature;
- Inputs (optocoupled) : # 4 200kHz, 5 V line-driver, or 24 Vdc PNP or NPN inputs for clock, direction, enable and current boosting;
- Outputs (optocoupled) : 24Vdc–100mA FAULT and BUSY outputs protected against short circuit (120 mA max);
- Display : 7 segment led display monitoring of drive working status;
- Dip switches : for USER functions setting;
- Connection : to power supply, motor and I/O through cable clamp connectors;
- Dimensions (SDLWD180) : 123.3 x 175.0 x 47.7 mm;
  (SDLWA180) : 123.3 x 175.0 x 47.7 mm;
  (SDLWT180) : 124.3 x 175.0 x 118.0 mm;
- Weight (SDLWD180) : 680 g. approx;
  (SDLWA180) : 680 g. approx;

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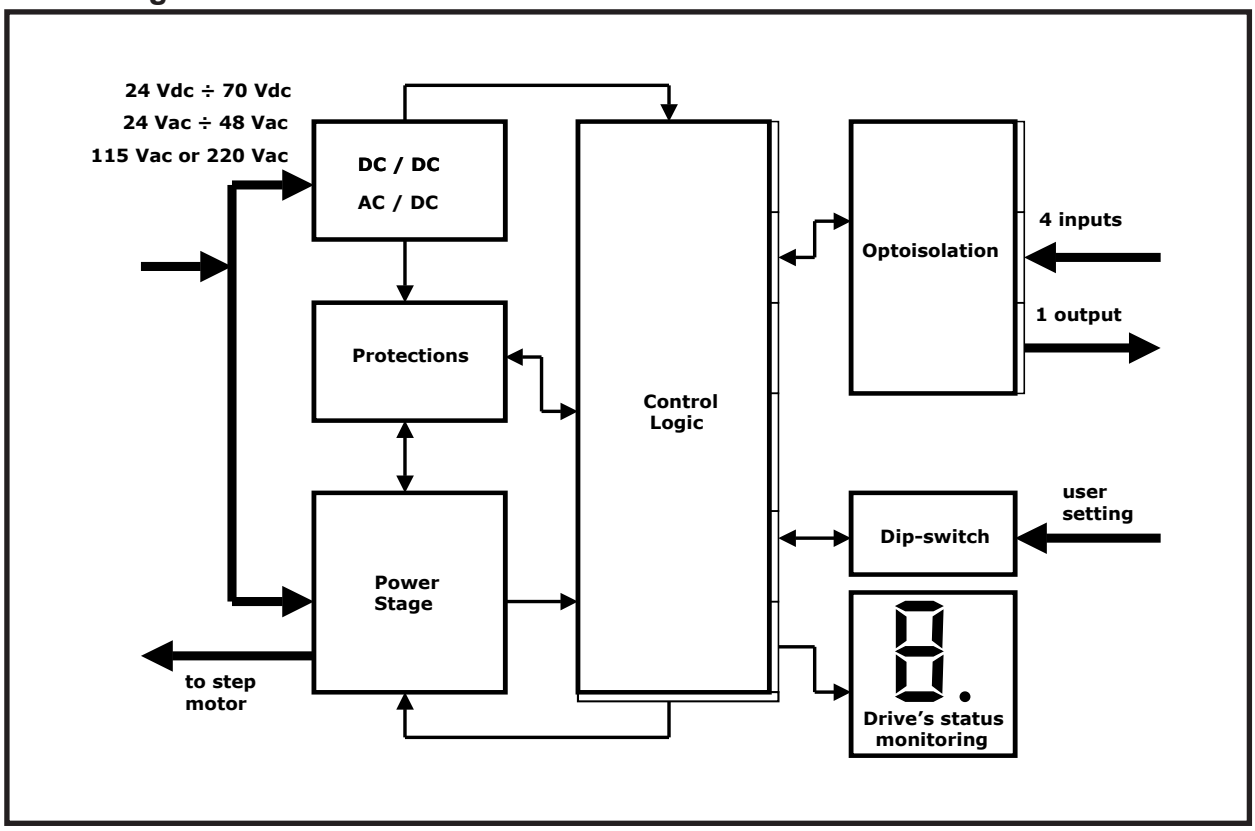
Block diagram:



The SDLWx180 is a step motor "clock and direction" driver implemented through a new generation DIGITAL SIGNAL PROCESSOR CONTROLLER. In a wall mounting housing the unit integrates a microstep drive able to move the motor according to CLOCK, DIRECTION, CURRENT BOOSTING and ENABLE control signals issued by an external master unit through the 5÷24 Vdc driver's inputs. The drive is also provided with FAULT and BUSY feedback outputs. All the digital inputs and outputs are optoisolated. Dip-switches are available to user settings. The unit can drive the stepper motor in open velocity & position loops, according to internal or external acceleration and deceleration ramps, while runnig a real time checking of the critical working parameters as temperature rise, voltages and currents. The basic system is powered through a DC voltage bus and the version with AC inputs is provided with AC to DC supply voltage rectifier or with transformer and AC to DC supply voltage rectifier.

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