



SDMWD180
SDMWA180
SDMWT180



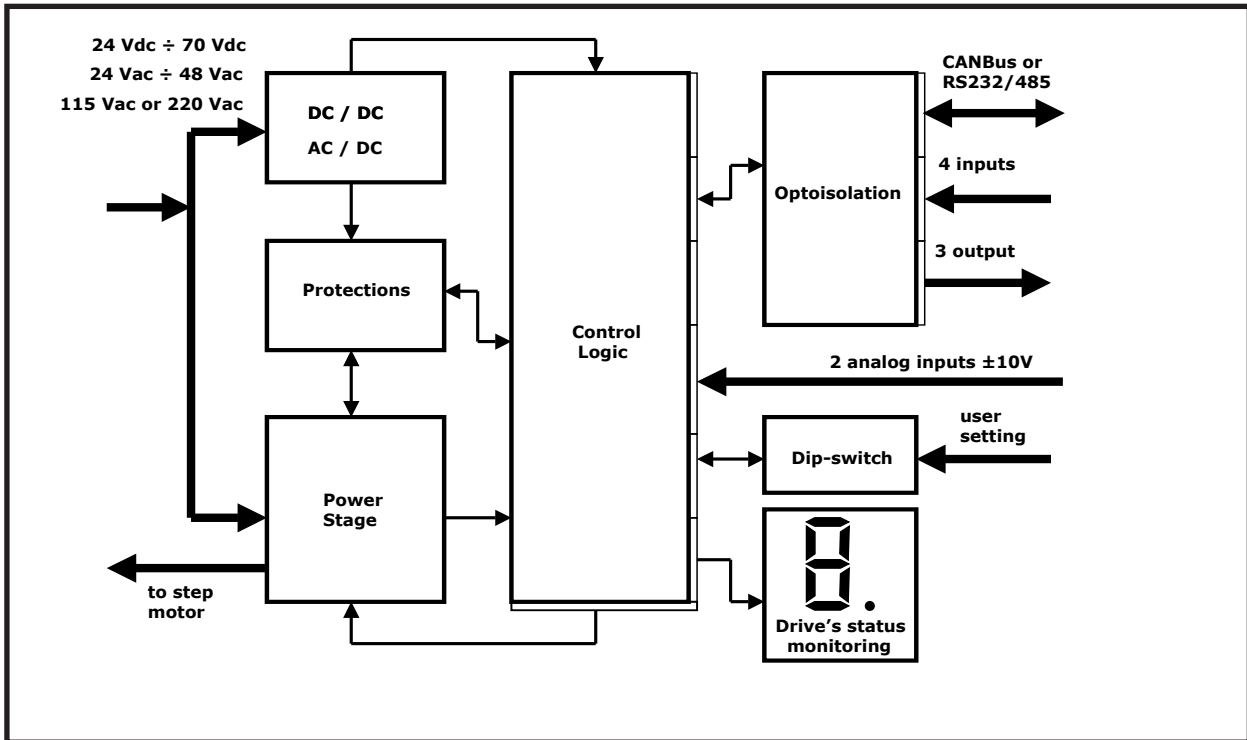
Stepping Motor Full Digital Programmable Drive

Technical characteristics

- Power supply (SDMWD180) : 24÷70 Vdc;
(SDMWA180) : 24÷48 Vac;
(SDMWT180) : 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;
- Analog inputs : # 2 ±10Vdc not isolated;
- Outputs (optocoupled) : # 3 24Vdc–100mA (#1 32Khz & # 2 1Khz) outputs protected against short circuit (120 mA max);
- Interface (optocoupled) : RS232, RS485 or CAN bus link;
- Display : 7 segment led display monitoring of the drive working status;
- Dip switches : for node ID and USER functions setting;
- User variables : programming (through CANbus or RS232/RS485) capability;
- Connection : to supply, motor and I/O through cable clamp connectors;
- Dimensions (SDMWD180) : 123.3 x 175 x 47.7 mm;
(SDMWA180) : 123.3 x 175 x 47.7 mm;
(SDMWT180) : 124.3 x 175 x 118.6 mm;
- Weight (SDMWD180) : 680 g. approx;
(SDMWA180) : 810 g. approx;
(SDMWT180) : 1500 g. approx.

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Block diagram:



The SDMwx180 is a step motor programmable 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 motion profiling commands mastered by a PLC or by a PC. The connection to the master unit is made through a CAN or a RS232/485 link or by #4 5÷24Vdc inputs, #3 outputs and #2 ±10Vdc inputs. All the interfaces, digital inputs and outputs are optoisolated. Dip-switches are available to user settings and for the identification of the unit in a CAN or in a multidrop RS485 network. The unit can drive the stepper motor in open or closed velocity & position loops, according to internal acceleration and deceleration ramps, while running 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 input are provided with AC to DC supply voltage rectifier and EMI filter or with transformer and AC to DC supply voltage rectifier.



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