



SDMWD170
SDMWA170



Stepping Motor Full Digital Programmable Drive

Technical characteristics

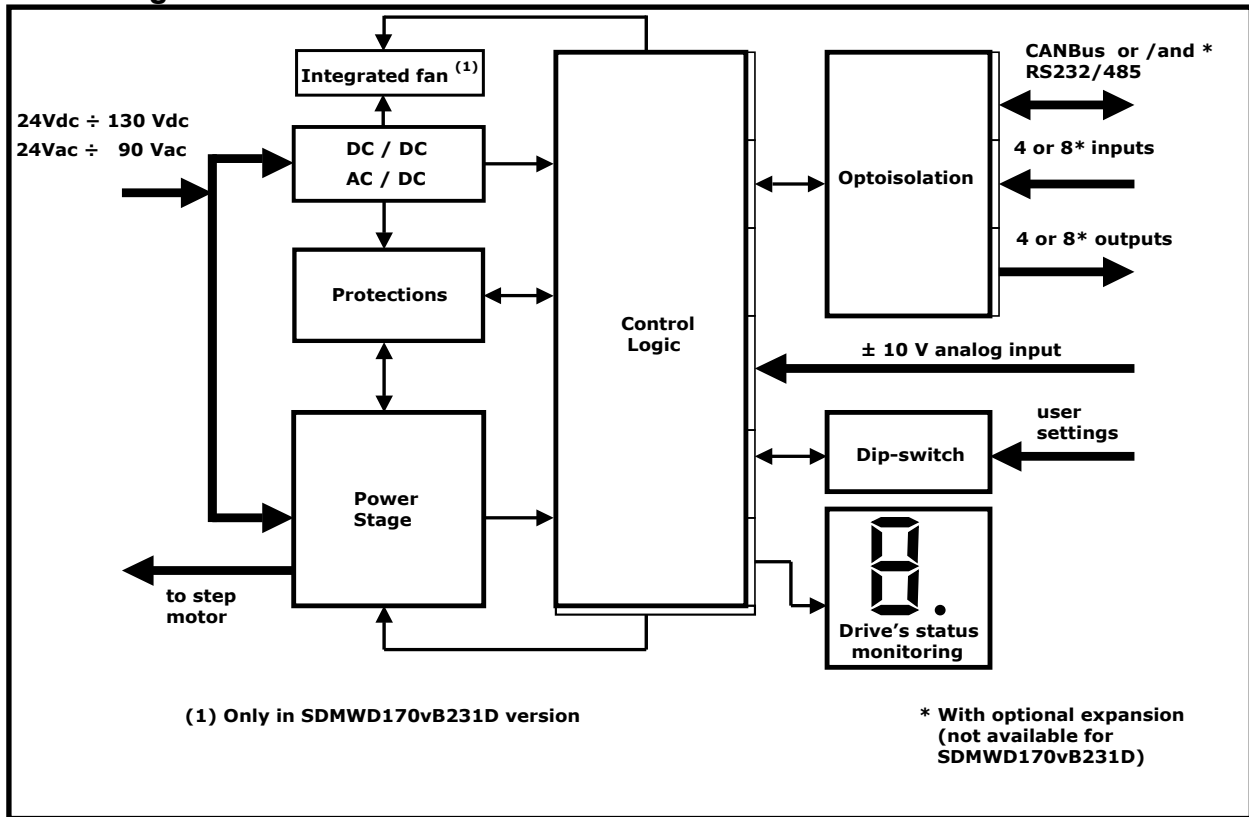
- Power supply (SDMWD170) : 24 ÷ 130 Vdc;
(SDMWA170) : 24 ÷ 90 Vac;
- Driver type : bipolar chopper;
- Chopper frequency : 40kHz;
- Phase current ratings : 1.0 ÷ 8.0 Arms;
- Step angle : from full step to 1/256 sinusoidal current waveforms;
- Protections : Overvoltage, Undervoltage, DC bus voltage ripple, overcurrent, open phase, overtemperature;
- Cooling (SDMWx170) : natural convection;
(SDMWD170vxxxxD) : forced convection with internal thermal fan;
- Inputs (optocoupled) : # 4 200kHz, 5 V Line-driver, or 24 Vdc PNP or NPN inputs;
- Analog input : # 1 ±10Vdc not isolated;
- Outputs (optocoupled) : # 4 24Vdc – 500mA outputs short circuit (overcurrent) protected;
- Interface (optocoupled) : RS232, RS485 or CANbus link;
- Dimensions (SDMWD170) : 123.3 x 175.0 x 47.7 mm;
(SDMWD170vxxxxD) : 170.3 x 205.0 x 47.7 mm;
(SDMWA170) : 123.3 x 175.0 x 88.3 mm;
- Display : 7 segments leds display of driver's status;
- Dip switch : for node ID and USER's functions settings;
- User variables : programming through CANbus;
- Connection : power supply, motor interface and I/O cable clamp connectors;
- Weight (SDMWD170) : 770g;
(SDMWD170vxxxxD) : 800g;
(SDMWA170) : 900g;

Options (not available for SDMWD170vxxxxD):

- expansion # 1 adding: # 4 optocoupled 200kHz, 5 V Line-Driver, or 24 Vdc PNP or NPN inputs, # 4 optocoupled 24Vdc – 500mA outputs (short circuit protected) and # 1 RS232/485 serial interface.

SDMWD170 SDMWA170

Block diagram:



The SDMwx170 module is a compact step motor drive for wall installations. The controller integrates a microstep drive and a logic able to move to some default positionings following precision trajectories according to position and speed commands mastered by a PLC. The communication to a PLC or industrial PC is made through a CANbus or a RS232/485 link. The drive has #4 5÷24 Vdc inputs, #1 analog ± 10 V input and #4 24 Vdc outputs. All digital inputs and outputs are optoisolated. Dip-switches are available for user settings and for the identification of the unit in a CANbus net. The system can be provided with additional #4 digital inputs, #4 outputs, #1 analog input and RS232/485 or CANbus link. The device 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 inputs is provided with AC to DC supply voltage rectifier with EMI filter.



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