

BRUSHLESS AC SERVO DRIVE

with built-in Motion Controller and PLC



DESCRIPTION :

The MD Series intelligent brushless drives are specially adapted for high dynamic performance. They can be used in either torque, speed or position control mode.

Each drive contains an integrated power supply, mains filter and braking resistor. A separate 24V dc supply is required to complete the system - this allows the drive's PLC functions to be operational when the main power is disconnected.

Various plug-in communication modules are available that allow the drive to be used in a networked system. These cover systems using both MODBUS and CANopen.

Thanks to their easy-to-program Basic language, multi-tasking kernel, MOTION control features and integrated PLC functions, they are well suited to a wide range of applications.

The DPL software, with its graphical user interface, allows the user to easily configure the drive from a PC.

FEATURES :

- Nominal power ratings up to 3 kW
- 230V AC / 400V AC supply versions
- Integrated EMC filter
- Selectable operating modes:
 - Torque mode
 - Speed mode
 - Position mode
- MOTION control functions:
 - Position
 - Electronics gearbox
 - Dynamic phase adjustment
 - Registration
- Field bus options
- Integrated PLC
- Multi-tasking Basic language



DPL SOFTWARE:

- Set-up Tools
 - Parameter setting
 - Instrument panel
 - Motion generator
 - Oscilloscope
 - Hyper-terminal
- Multiple windows
- Integrated help files

APPLICATIONS:

- Pick & place robots
- Packaging machines
- Label printing
- Dosing
- Winding
- Flying shears
- Automation



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MD Series Specification

Supply	230V AC $\pm 10\%$, single or three-phase, 400V AC three-phase
Auxiliary supply	24V DC $\pm 10\%$, 0.5A typical, 0.7A max with encoder feedback
Mains filter	Built-in
Braking resistor	Built-in An external resistor can be added if required
Motor feedback	Resolver Incremental (option)
Master encoder input	Incremental : A, /A, B, /B, Z, /Z
Encoder emulation	Incremental : A, /A, B, /B, Z, /Z 1024 ppr
Communication	RS 232 MODBUS RTU RS 422, RS 485 MODBUS RTU (option) CANopen (option)
Inputs / Outputs	4 inputs / 2 outputs - digital 2 inputs / 1 output - analogue Optional digital I/O module with 12 inputs / 8 outputs
Diagnostics	7 segment LED display
Operating modes	Torque mode Speed mode Position mode MOTION control functions
Operating temperature	0 to 40°C
Storage temperature	-10 to 70°C
Switching frequency	6.25 kHz

MD230 Range

	MD 230 / 1	MD 230 / 2	MD 230 / 5	MD 230 / 7
Nominal current	1.25 A	2.5 A	5 A	7.5 A
Peak current	2.5 A	5 A	10 A	15 A
Nominal power	0.35 kVA	0.7 kVA	1.5 kVA	2.3 kVA
Dimensions w x h x d	67 x 215 x 203	67 x 215 x 203	67 x 215 x 203	67 x 215 x 203

MD400 Range

	MD 400 / 1	MD 400 / 2	MD 400 / 5
Nominal current	1.25 A	2.5 A	5 A
Peak current	2.5 A	5 A	10 A
Nominal power	0.7 kVA	1.4 kVA	3 kVA
Dimensions w x h x d	67 x 215 x 203	67 x 215 x 203	67 x 215 x 203