



Motion Control Systems

## ADW Series Drives



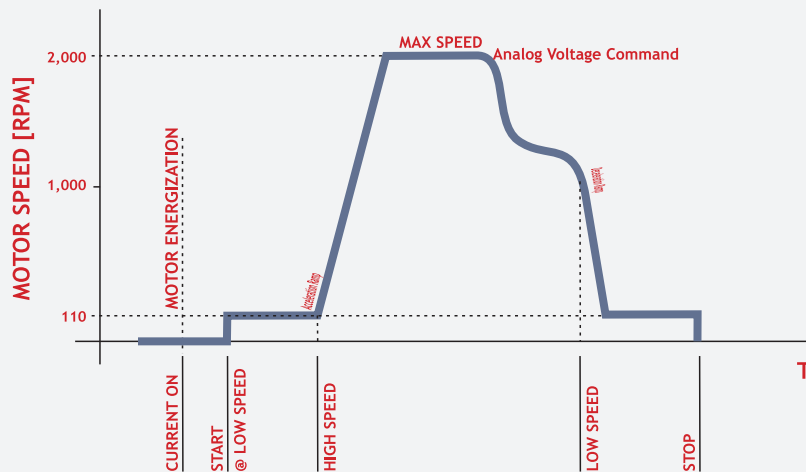
### INTRODUCTION

- ADW is the new R.T.A. electronic drive designed for all applications where accurate SPEED CONTROL is needed.
- The motor velocity can be regulated in 3 ways:
  - Analog voltage input
  - External potentiometer
  - Internal speed settings
- The extended ADW power range (24-75 VDC, 1.9 - 6.0 Amps) and its versatility (4 Modes of Operation) allow to access to a wide variety of application fields.

### APPLICATIONS

- Any speed-regulated applications with variable or pre-set velocity setting.
- Conveyors:
  - Single belt transport
  - Multi belt transport with high precision position/speed synchronization
- Jog or adjustment movements.

### Example of an application motion profile



### MODES OF OPERATION

- 1 RUN MODE
- 2 START/STOP MODE
- 3 CW/CCW (JOG)
- 4 LIMIT SWITCH MODE

Model	Driver Type	V <sub>DC</sub> range	I <sub>NP</sub> min. (Peak value)	I <sub>NP</sub> max. (Peak value)	Dimensions
		(VOLT)	(AMP)	(AMP)	(mm.)
ADW 06 (ADW 06.V)*	Analog Input	24 to 75	1.9	6.0	card 122x93.5x25

\* ADW 06.V version is equipped with screw-type connectors.

For technical details, please refer to ADW user manual.



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### MAIN FEATURES

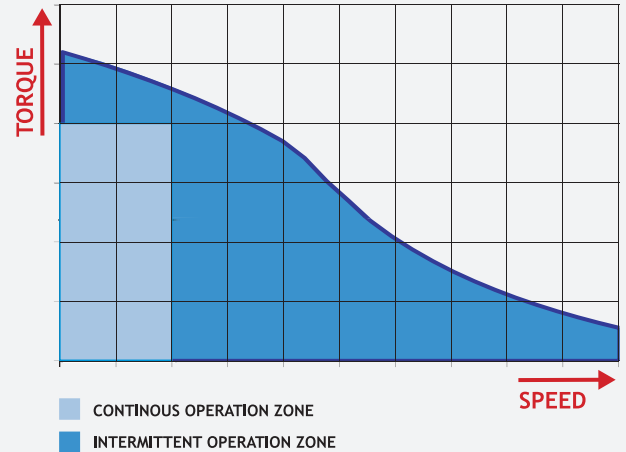
- Range of operating voltage: 24-75 VDC.
- Range of current: 1.9-6 Amp. Easy setting of values by means of a dip-switch.
- Wide speed range: 0.8 rpm to 2,000 rpm. Continuous operation zone up to approx 400 rpm, depending on motor choice.
- 64 internally selectable preset speed.
- 0-5Vdc or 0-10Vdc selectable analog command range.
- Low & High-speed motion profile.
- Adjustable internal acceleration/deceleration ramp
- Voltage source for potentiometer available at connector.
- "Auto-stop" function.
- All opto-insulated digital inputs.
- Sync-out for multi-Axis synchronization.
- Over-voltage, short-circuit and thermal protection.
- Warranty: 24 months.



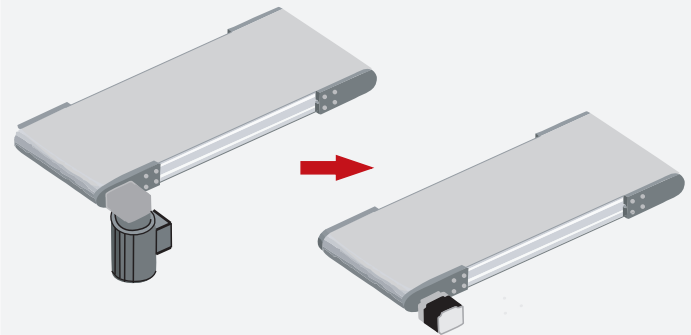
### BENEFITS vs. Conventional Inverters + AC motors + worm gearbox setup

- Broader and more accurate speed range [0.8 rpm to 2,000 rpm].
- Zero-deviation motor speed control at any speed. [motor speed is not affected by variable factors like load, inertia or friction]
- The motors automatically act as brake at zero speed
- Easy multi-axis synchronization in Position and Speed.
- No need of worm gearbox due to the high-torque at low rotation speed range [0-400 rpm]
- Smaller dimension: overall size < 1/3 compared with traditional AC Asynchronous sets.
- Lower weight.

### Example of typical torque/speed curve

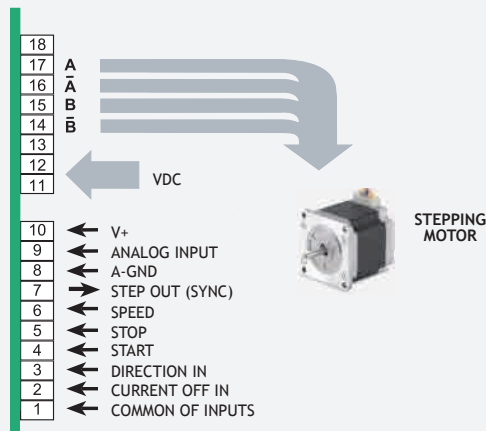


### Typical application: dimensional comparison

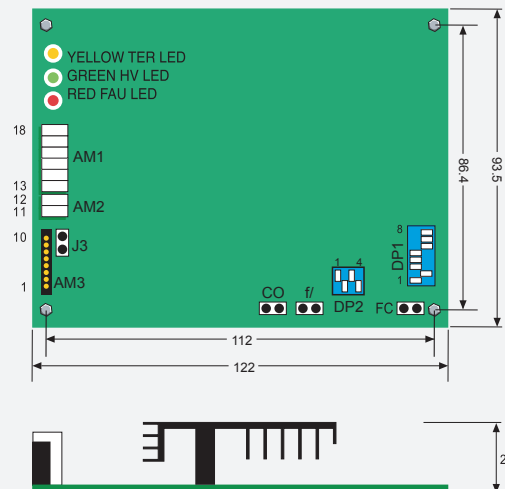


Volume reduction of motor up to 70%!

### POWER AND LOGIC CONNECTIONS



### MECHANICAL DIMENSIONS (mm.)



For technical details, please refer to ADW user manual.

Allegato al catalogo CAE - 04 - 10

