

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 V_{DC}, 0.65 - 6.0 Amps) and its versatility (4 Modes of Operation) allow to access to a wide variety of application fields.

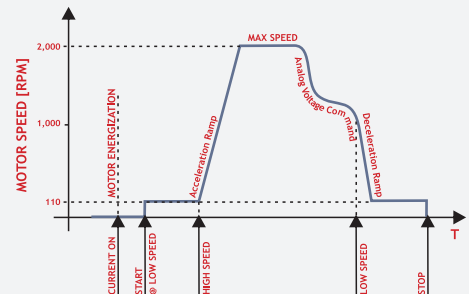
MODES OF OPERATION

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

HIGHLIGHTS

- 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

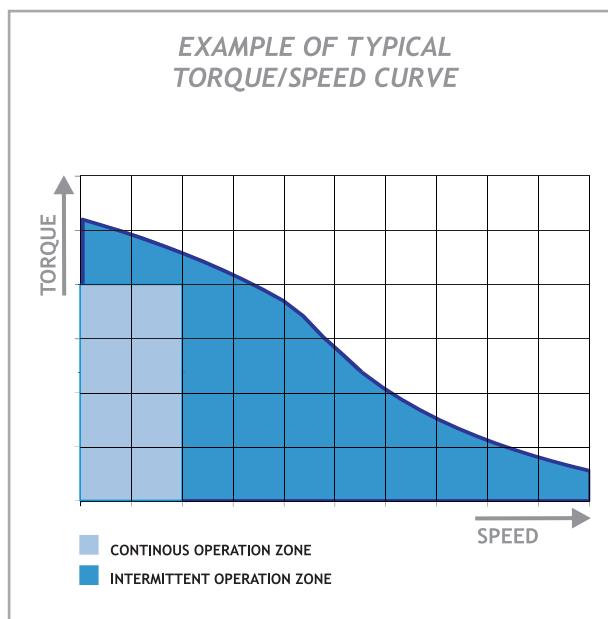


| Series | Model | V _{DC} range (Volt) | I _{NP} min. (Peak value) (Amp) | I _{NP} max. (Peak value) (Amp) | Dimensions (mm) |
|--------|------------|---------------------------------|---|---|--------------------|
| ADW | 04 - 04.V* | 24 to 75 | 0.65 | 2.0 | 122x94x25 |
| ADW | 06 - 06.V* | 24 to 75 | 1.9 | 6.0 | 122x94x25 |

* ADW 04.V and ADW 06.V versions are equipped with screw-type connectors.

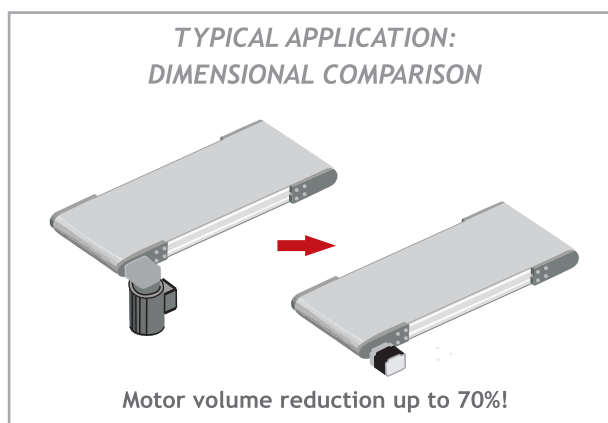
TECHNICAL FEATURES

- Range of operating voltage: 24-75 V_{dc}.
- Range of current: 0.65-6 Amp. Easy setting of values by means of dip-switches.
- 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.

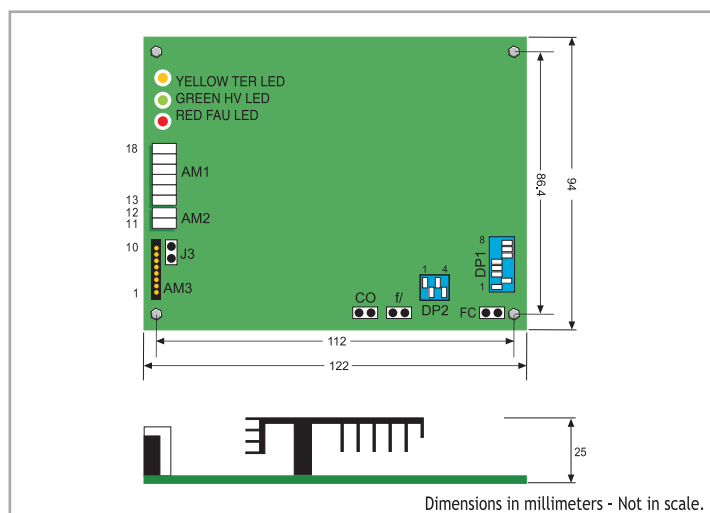


BENEFITS VS. CONVENTIONAL INVERTERS + AC MOTORS + WORM GEARBOX SETUP.

- 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.



MECHANICAL DIMENSIONS



POWER AND LOGIC CONNECTIONS

