



High-Power, Compact Digital Servo Drives

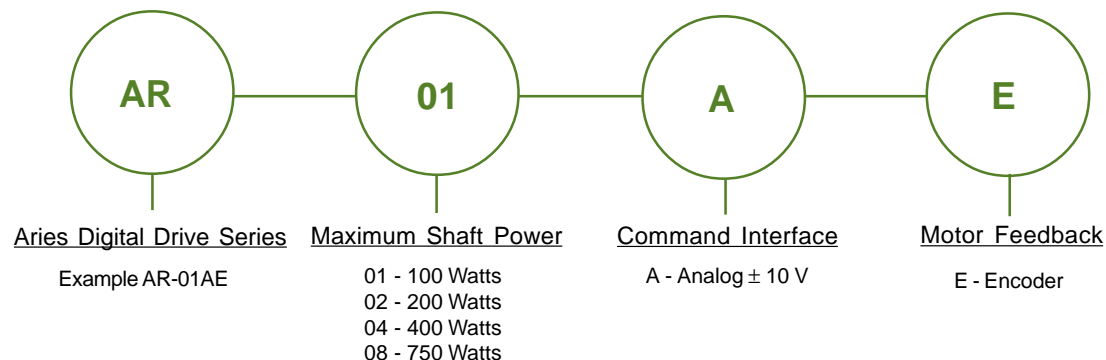
With its “plug in and spin” design, the Aries family of compact digital servo drives requires no set up. Users simply attach the motor and the drive automatically configures. Available in four versions (100, 200, 400 and 750 Watts), the Aries family gives users a robust and cost-effective digital servo product – users only pay for the level of performance they need. Unlike the competition, the Aries family is designed with open architecture, so it can be used with any manufacturer’s motion controller and servo motor.

The Aries is a torque-only drive. It accepts 5-24 VDC digital input with optional AC control power input. With its Flash-based operating system, the Aries can be upgraded in the field. Circuit protection includes motor-short protection (phase-to-phase and ground-to-ground), ESD protection (logic and communication inputs and outputs), short protection (logic and communication outputs) and over-temperature protection (drive and motor thermistor/thermalswitch).

Aries Features

- Plug in and spin – no set up required; drive auto-configures when used with Compumotor’s “smart encoder” motor
- ± 10 V torque control – use any controller with a standard ± 10 V input
- 4 versions available: 100, 200, 400 and 750 Watts
- Standard sub-D onnectors for easy connectivity to any system
- 120/240 VAC input with optional 120/240 VAC keep alive circuitry
- CE (EMC & LVD), UL compliant
- Compact design
- Brake relay

Aries Part Numbering System



Aries Specifications

Specifications

Motor Output Power

Shaft Power @ Continuous Current
Shaft Power @ Peak Current

Drive Output Power

Continuous Current (RMS)
Peak Current (RMS)
Bus Voltage
PWM

Drive Input Power

AR-01AE

AR-02AE

AR-04AE

AR-08AE

100 Watts*
300 Watts*

200 Watts*
600 Watts*

400 Watts*
400 Watts*

750 Watts*
750 Watts*

1 Amp
3 Amps

1.75 Amps
5.25 Amps

3 Amps
9 Amps

4.5 Amps
13.5 Amps

170/340 VDC
8, 16 or 32 kHz, motor dependent
120/240 VAC, 1 ϕ , 50/60 Hz

Performance

Servo Update
Accuracy

Inputs

Command
Enable/Reset

Outputs

Fault
Brake
Encoder Out
Encoder

Communications

Type
Baud Rate
Multi-drop

Weight - lbs (kg)

AR-01AE
AR-02AE
AR-04AE
AR-08AE

62.5 μ seconds
 \pm 1 encoder count; encoder dependent

14 bit, \pm 10 V (torque control)
5-24 VDC

5-24 VDC
Solid state, normally open 1 Amp @ 24 VDC max
 \pm 10 V scalable, 8 bit (not to be used as control functions)

RS232/RS485 (2-wire) ASCII
9600 fixed
Up to 99 units

1.68 (0.76)
1.90 (0.86)
2.54 (1.15)
2.82 (1.28)

* @ 240 VAC

Speed Torque Curves

Data to come

Aries Dimensions in inches (mm)

