

A SERIES

Servo Drives



Bus Voltage Input

- 24 – 180 VDC

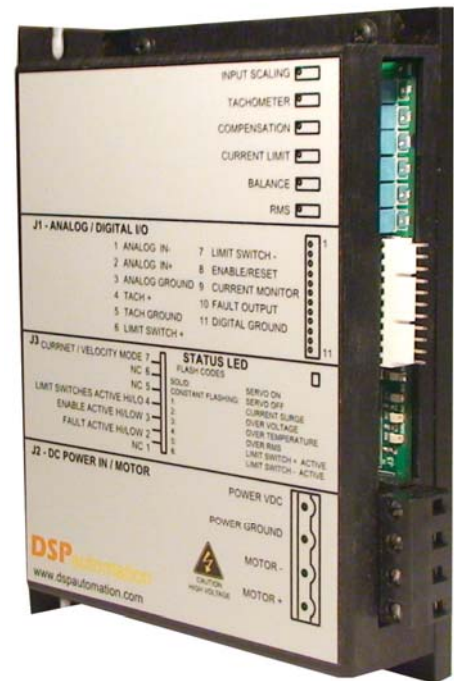
Continuous Current Rating

- 2 – 15 amps

Description

The A-Series servo drive is a high performance cost effective solution for powering brush servomotors with an analog tachometer feedback. The packaging is small for producing over 2 kW. An LED indicates drive status for easy trouble shooting.

The A-Series is designed and manufactured to UL standards.



Technical Specifications

A Series (VDC)						
Input Voltage	24 VDC - 180 VDC					
Output Current	Continuous current @ 40° C (A rms)	2	4	8	12	15
	Peak (A rms)	6	12	24	24	30
	Peak Current Time (sec.)	3				



Performance Specifications

Control Logic Voltage	Internal DC/DC converter
Current Loop BW	2.5kHz
Velocity Loop BW	400Hz
PWM Frequency	16kHz
Analog Input	+/-10V, Differential
Input Impedance	40 kOhm
Feedback	Tachometer: (+/-50V max.)
Analog Output	+/-10V, Current monitor
Digital Inputs	3 Inputs, 5-28VDC control voltage, 1x Enable/Reset, 2x Limit Switches
Digital Outputs	Fault Output, 5-28VDC, 100mA max., Open Collector or 0~12V
Commissioning/ Diagnostics	Jumpers, LEDs
Operating Modes	Torque, Velocity
Operating Ambient Temperature	0 °C to 50 °C (Shutdown 80 °C heatsink temperature)
Relative Humidity	5 - 95% non-condensing
Weight	1.0lbs (0.45kgr)

Adjustments

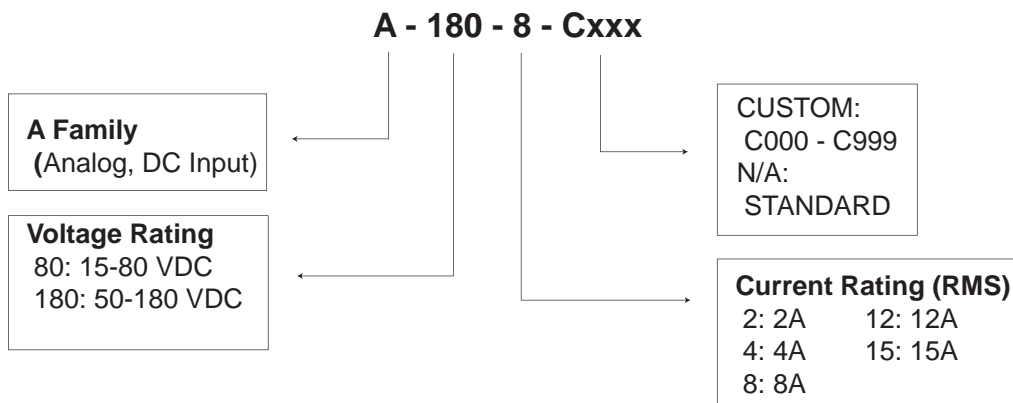
Peak Current	Potentiometer, 0 to (6/12/24/30)
RMS Current	Potentiometer, 0 to (2/4/8/12/15)
Signal Command	Potentiometer, Input Scaling
Balance	Potentiometer, Zero velocity offset
Compensation	Potentiometer, System response
Tachometer	Potentiometer, Input Scaling
Operating Mode	Jumper Select: Velocity, Torque
Enable/Reset Input Logic	Jumper Select: Active Hi / Active Lo
Limit Switch Input Logic	Jumper Select: Active Hi / Active Lo
Fault Output Input Logic	Jumper Select: Active Hi / Active Lo



Status LED Flash Codes

Constant Flashing	Servo Off
Solid	Servo On
1 Flash	Current Surge
2 Flashes	Over Voltage
3 Flashes	Over Temperature
4 Flashes	Over RMS current
5 Flashes	Limit Switch + Active
6 Flashes	Limit Switch - Active

SERVO DRIVE MODEL NUMBER

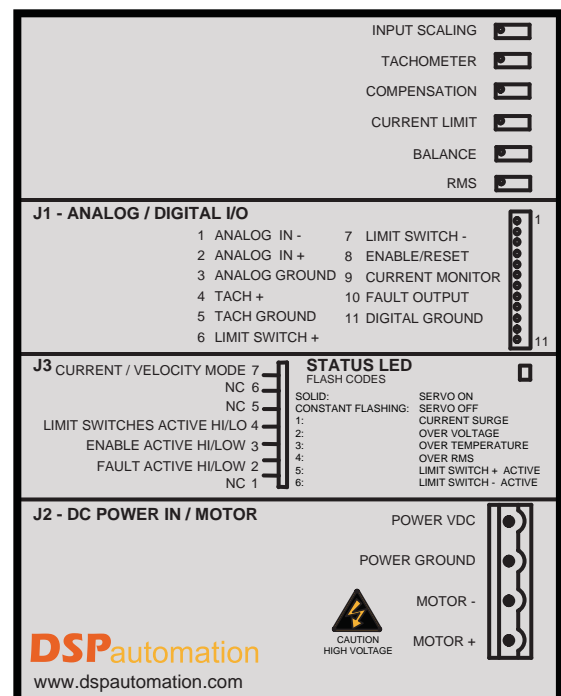


Note:

1. Selecting 48 VDC is for 24 – 48 VDC bus
2. Selecting 180 VDC is for 48 – 180 VDC bus

Examples:

- A-48-15
- A-180-4
- A-180-15





A SERIES SERVO DRIVE

MOUNTING DRAWING, UNITS: MM (INCH)

