



# Overview 1928772 Atlas BLDC Intelligent Servo Motor User Guide

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## Thank you for purchasing Overview's Atlas Servotorq Intelligent Servo Motor.

To quickly get up and running with your Atlas motor, please refer to the Technical Manual, I<sup>2</sup>C Protocol Guide and Application Notes located at: <http://www.overview.co.uk/rs-components/support/>

**Please observe the following precautions when handling and operating the Atlas motor:**



- The Atlas motor uses semiconductors which can be damaged by electrostatic discharge (ESD). The motor must be handled and stored in an ESD safe environment.
- The Atlas motor supply voltage is 48V DC, using up to 1A. Do not hot plug the power supply.

### Reference Information:

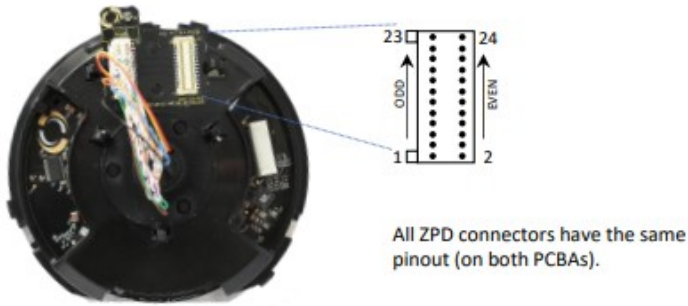
The Atlas I<sup>2</sup>C control interface uses 12V signalling levels. Please see the Technical Manual for further details and a reference interface circuit.

When initially powered up, the motor will perform an initialisation routine as detailed in the Technical Manual. During initialisation, the unit will rotate and temporarily draw the maximum rated current.

Atlas motor pinout reference (please see the Technical Manual for further details):

- Connector type: JST ZPD 24 way. Mating housing part # ZPDR 24V S, crimp part # SZPD 002T P0.3

Connectors			
Pin	Signal	Pin	Signal
1	48V <sub>in</sub>	2	GND
3	48V <sub>in</sub>	4	GND
5	48V <sub>in</sub>	6	GND
7	PASS THROUGH PAIR 1+	8	PASS THROUGH PAIR 4+
9	PASS THROUGH PAIR 1-	10	PASS THROUGH PAIR 4-
11	PASS THROUGH PAIR 2+	12	PASS THROUGH PAIR 5+
13	PASS THROUGH PAIR 2-	14	PASS THROUGH PAIR 5-
15	PASS THROUGH PAIR 3+	16	I <sup>2</sup> C SDA
17	PASS THROUGH PAIR 3-	18	I <sup>2</sup> C SCL
19	PASS THROUGH AUX 1	20	I <sup>2</sup> C ADDRESS SELECT (Not available via slip-ring)
21	PASS THROUGH AUX 2	22	NO-CONNECT
23	NO-CONNECT	24	EARTH (SPINDLE CONNECTION)




**Note:**

I 2 C Address Select to be connected to GND for address 0x29, open for 0x28 (7 bit address). This is only available on the connectors on the large circular motor PCBA; this signal is not passed through the slip ring supplied.

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