

## Kinesys Elevation 30mpm JJ Configuration

This document describes the configuration changes required when a 3kw Elevation is used to control a 94Hz Lodestar Model JJ motor.

CM manufacture two variations of the Model JJ motor, one using a 50/60Hz motor winding, the other using a special 94Hz motor winding. The type of motor can be determined by looking at the rating plate. It will look similar to this

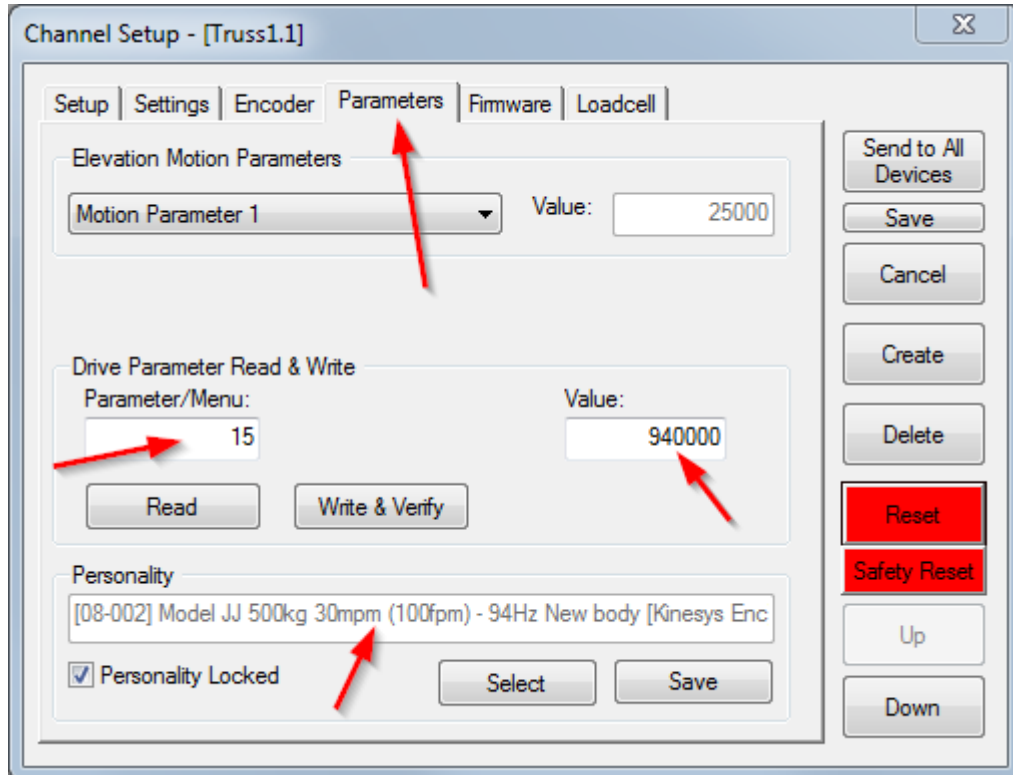


The key items that indicate that this is a 94Hz motor are the fact that the motor is rated at running at 100fpm or 30.5mpm, and the motor Hz is specified at 94

Note you **MUST** use a 3kw Elevation to control a 94Hz Model JJ motor.

## Procedure to Configure Elevation1 + Drive parameters

1. Ensure that the correct personality is loaded in K2 or Vector, this will mean that the correct Max speed and Encoder scaling is used.
2. Use the channel setup in the Vector software to modify drive parameters as described below.



3. The following parameters need to be changed, when the Elevation is used to control 30mpm JJ motors.

Drive Parameter	30mpm value	Notes
15	940000	Rated frequency of motor 94Hz for 30mpm JJ motor
415.1	260000	Parameter 415 Sub Parameter 1 K1 relay mode 26 = Drive Active The Hoist contactor will not energise until the Elevation is attempting to move the motor.

4. The following parameters need to be changed, when the Elevation is used to control Normal motors.

Drive Parameter	Normal value	Notes
15	500000	Rated frequency of motor 50Hz for other motors
415.1	160000	Parameter 415 Sub Parameter 1 K1 relay mode 16 = Drive ready The Hoist contactor will energise when the Elevation is ready to move and the Estop is released.

5. The following parameters need to be checked using once to ensure they are the correct value.

Drive Parameter	30mpm value	Normal value	Notes
16	45000	45000	Boost Value Ensure all Elevations have the same Boost value, as this effects the low speed performance
18	20000	20000	Switching frequency
11	1000000	1000000	Max frequency = 100Hz