E-Flite Draco

The stock motor in the Draco Is shown below. The problem with this set-up is that they tell you in the manual that you can run the motor on 4, 5 or 6 cells. With the stock 14.5x9 4-blade prop, the motor flies relatively scale on 4 cells, is quite peppy on 5 cells, and has very aggressive performance on 6 cells, right up until the motor burns up on the 4th or 5th flight! You cannot make that drastic a change in battery voltage without changing the prop!

Like most of the motors that E-Flite includes in their aircraft, this one is rather over-rated for its size and is prone to failure after about a dozen flights. Unfortunately, trying to find any information about the E-Flite “Stock” motors is like trying to find a crystal clear photo of Bigfoot! It is really a travesty that E-Flite provides so little information about their products. I usually end up scouring the internet for a review or build thread on RC Groups to try and find ANY information about the motors in these planes. Unfortunately, after looking for nearly an hour all over the internet, I cannot find ANY specs for this motor whatsoever! Thanks E-Flite!

Just looking at the motor, it looks like it is based on a 41x20mm stator, making it the same size as our Cobra 4120/22, 430 Kv motor or the Tempest 4120-420Kv motors shown below.

Both of our motors this size top out at a max current rating of around 48 amps. Unless they have some kind of magic going on inside the stock motor, it most likely has a similar max current rating. With the stock 4-blade prop, these motors would pull around 55 amps or more on 6 cells, and would eventually fail over time.

In our BadAss line, we have the 4520-470 motor, which can handle up to 78 amps, which is still fine to run on the stock 100-amp ESC. That motor is about the same length as the 4120 size motors from Cobra and Tempest, but it is 5mm larger in diameter. Here is a photo of that motor.

If you have got at least 3mm of space all the way around the stock motor, this one would fit, and would give you a nice power boost with significantly higher current handling capability so you would never burn it up. This motor also has an 8mm shaft and much larger bearings, so it will last much longer than the stock motor. You can find this motor on our website at the following link.

BA-4520-470 Motor: https://innov8tivedesigns.com/catalog/product/view/id/1887/s/badass-4520-470kv-brushless-motor/category/324/