



## **NEW Faulhaber 3274...BP4 high performance brushless motor series – The flyweight that packs a heavyweight punch**

In the fight for high performance with minimum weight, FAULHABER with the development of its series 3274 BP4 has put a new champion in the ring. The brushless DC servomotor, measuring 32 mm in diameter and 74 mm in length, has a huge continuous torque of 165 mNm. Furthermore, it weighs in at just under 320 g, which is half that of conventional motors with comparable power.

The four-pole brushless DC servomotor is ideal for applications in which high power and dynamic start/stop operation with the lowest possible total weight is an important factor, for example in link drives of humanoid robots, electric grippers used in process automation or high-performance traction drives used in inspection robotics.



The 3274 BP4 is overload-resistant and operates without wear-prone mechanical commutation. As a result, its operational lifetime is many times longer than that of a conventional DC micromotor. The slope of the motor characteristic curve is just 3 rpm/mNm with a stall torque of 2.7 Nm. The 3274 BP4 can reliably deliver what the application demands even under the harshest ambient conditions, such as at low temperatures or high mechanical loads (e.g. in aerospace applications). This is made possible by, among other things, a robust stainless steel housing and the omission of adhesives which are otherwise usually used for assembly.

One particularly interesting feature of this motor series is the high flexibility in its design. The FAULHABER series 3274 BP4 is equipped as standard with digital hall sensors. High-resolution optical and magnetic encoders can be attached simply to the rear multifunction flange. As an option, the motor is also available with analog (linear) hall sensors that can replace an encoder in many application cases. Finally, a large selection of performance-optimised precision gearheads rounds off the complete drive system.



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