

Expansion of modular drive system

New ECI 80 high-power drive unit for automation applications

Users have varied wishes when it comes to the right drive unit, including where drive power, transmission variants, reduction stages, closed-loop control systems, or connection technology are concerned. In order to provide even higher power outputs for automation applications, ebm-papst has now expanded its existing ECI drive unit series to include size 80.

The new BLDC motors are based on the internal rotor principle with safety extra-low voltage (24 / 48 VDC), and have a diameter of 80 mm and a rated output of up to 750 watts. By combining different modules, they can be individually put together to create a complete drive system. Encased in a robust metal housing, degree of protection IP54 is achieved as standard.

Customized drive units available

The modular drive system includes planetary gears with different reduction ratios as well as encoder and brake modules. For example, if the application requires a holding brake based on the standby current principle, a module with a spring-loaded brake can supplement the drive unit. Hall sensors for detecting the rotor position are currently integrated for operation on a remote drive controller; other integrated electronics modules such as speed or position controllers with an optional bus interface are set to follow.

Simple to integrate into the application

Industrial plugs make it simple to integrate into the application. The radial angled plug with bayonet connector can be turned and engages automatically. For space-critical applications, an axial plug module can be provided on request – even a prepared cable connection is available.

Wide range of applications and fast sampling

The compact and customized drives are ideal for applications in the intralogistics sector, in conveyor, storage, and sorting systems, in medical technology for adjusting operating tables or patient lifts, as well as in battery-powered mobile vehicles (AGVs, AMRs). Thanks to defined preferred types, selected drive configurations are ready for dispatch within 48 hours, which means that sampling, for example, can be done very quickly.

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Image: Modular drive system from ebm-papst: ECI motors in sizes 42, 63, and now also in size 80, with power outputs of up to 750 W.

Fig. 1 ebm-papst
Characters approx. 2080, including headings and sub-headings
Tags Drive system, modular, brake, planetary gear, safety brakes, electronics
Link www.ebmpapst.com/idt

About ebm-papst

The ebm-papst Group, a family-run company headquartered in Mulfingen, Germany, is the world's leading manufacturer of fans and motors. Since it was founded in 1963, the technological leader has set international industry standards with its core competencies in motor technology, electronics, digitalization, and aerodynamics. ebm-papst offers sustainable, intelligent, and tailor-made solutions for virtually every requirement in ventilation and heating technology.

In the 2022/23 financial year, the Group generated turnover of EUR 2.54 billion. It employs just under 15,000 people at 30 production sites (including in Germany, China and the U.S.) and in 50 sales offices worldwide. ebm-papst sets the benchmark in almost all sectors, such as ventilation, air conditioning, and refrigeration technology, heating technology, information technology, mechanical engineering, intralogistics, and medical technology.

In St. Georgen, ebm-papst develops intelligent solutions for sectors such as intralogistics, electronics and medical technology. ebm-papst St. Georgen includes the Herbolzheim plant, the site in Lauf in Franconia and a production site in Oradea, Romania.

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