

New modular system for custom-assembled EC internal rotor motors

Modular construction provides IP54 drive systems tailored to suit

Saskia Tarantini
Contact for editorial staff
Phone +49 7724 81-1342
Fax +49 7724 81-1459
Saskia.Tarantini@de.ebmpapst.com

09.02.2010 - Page 1 of 1

Short version:

Modern small drives for automation, laboratory and medical or packaging technology frequently have to fulfil a wide variety of tasks. The drive experts at ebm-papst St. Georgen have now developed a new approach in building drives equipped for the specific application. Individual module assemblies can be configured and put together according to a requirements profile specified by the user. The simple, yet ingenious connection technology enables the finished drive to conform to the IP54 type of protection at no extra cost. Various basic motors, gear types, encoders, absolute encoders, spring-loaded and permanent magnet brakes are available, as are electronics modules from simple commutation electronics to independent control systems with CANopen interface. The first motor variant, the ECI 63, was launched at the SPS trade fair in November 2009. It features best values in terms of rated output of over 400 W and 1000 mNm as well as a motor efficiency of nearly 90% at a diameter of just 63 mm. In 2010, a motor with a diameter of 42 mm and others with diameters of 32 to 80 mm will follow, which are all designed according to the same modular principle. All drives are equipped with various standard bores for flange mounting and run the same operating and programming software when using the CANopen interface. This allows them to be integrated into systems and maintained easily.

M509_ECI_Baukasten_bild1.jpg



Figure 1 ECI 63 Modular System - consistent modular design for a customised drive