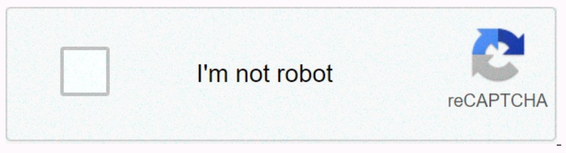

Continue

Maxon epos 4 manual

EPOS is a modular, digital positioning controller by maxon. It is suitable for permanent magnet-activated motors plus encoders with a range of 1 to 1050 W continuous output power. The wide range of operating modes, as well as various command interfaces, make it versatile for use in many different drive systems in the fields of automation technology and mechatronics. EPOS ist eine modular aufgebaute, digitale Positioniersteuerung von maxon. Sie eignet sich für permanentmagneterregte Motoren mit Encoder im Bereich von 1 bis 1050 Watt Dauerleistung. Eine Vielzahl von Betriebsmodi, sowie unterschiedliche Schnittstellen zur Kommandierung, ermöglichen den flexiblen Einsatz in verschiedensten Antriebssystemen in den Bereichen Automatisierungstechnik und Mechatronik. maxon motor's EPOS range of controllers has been very successful in the marketplace. Since its launch in 2005, more than 100,000 units are in use worldwide. To build upon this success, the Swiss drive specialist launches the EPOS4 as the next generation of positioning controllers. The first product in maxon's new line is the high-performance EPOS4 module with detachable pin headers and two different power ratings. With a connector board, the modules can be combined into a ready-to-install compact solution. The positioning controllers are suitable for efficient and dynamic control of brushed DC motors and brushless BLDC motors (EC motors) with Hall sensors and encoders up to 750 W continuous power and 1500 W peak power. More performance and additional functionality The Swiss drive specialists at maxon motor has equipped its product offering of CANopen positioning controllers with even more power, better control performance, and additional functionalities. The modular concept also provides for a wide variety of expansion options with Ethernet-based interfaces, such as EtherCAT or absolute rotary encoders. All these innovations are based on the successful principle of our Easy to use POsitioning System. The combination of a wide variety of operating modes and state-of-the-art control characteristics like Field Oriented Control (FOC) with multiple analog and digital I/O along with various command options enables applications in a large number of fields from medical technology to robotics. As always, maxon relies on integrated protective devices like the Safe Torque Off (STO) functionality. Intuitive parameterization Start-up and parameterization are performed with an advanced, intuitive graphical user interface called “EPOS Studio” and user-friendly menu-controlled wizards. A sophisticated automatic process for controller tuning has also been part of the package for years. Customers are free to fully dedicate themselves to their real task – developing their devices.
Motor control becomes a secondary concern, as the EPOS comes with maxon's comprehensive know-how in drive technology. Together with the three freely available libraries and programming examples, this makes the integration in a wide variety of systems very easy.
Up to 98% efficiency All these characteristics are combined with a large input voltage range of up to 50 VDC, extremely high power density, and up to 98% efficiency. This makes EPOS4 positioning controllers the first choice for your drive application. For more information on the EPOS positioning controller series of maxon motor, please see