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FLEXGEN-M BLDC - Signal generator for controlling brushless direct current motors Generate, simulate and manipulate PWM, SENT and PWG signals

Sindelfingen, 21.06.2021 - FlexGen-M BLDC is now available

The new **FlexGen-M BLDC** used for controlling 3-phase brushless direct current motors (BLDC motors) is the perfect complement to the STAR ELECTRONICS product portfolio. Advances in technology have resulted in greater demands on PWM generators. The new FlexGen-M BLDC ensures you are ideally equipped for **any of your current and future uses** in this field.

Brushless direct current motors are lower in weight and can result in an increase in service life. By using the FlexGen-M BLDC, it is possible to conveniently control brushless direct current motors, while also precisely positioning and monitoring them by means of sinusoidal, field-oriented control (FOC). The current **rotor position** can be detected using Hall sensors, encoders and – because of the built-in measurement sensors for the current – can also be detected using the back electromotive force (Back EMF). The **absolute position of the motor** and the **mechanical end stops** can also be determined and stored independently using a teach-in drive.

With an analogue signal (0-5 V) or by using SENT in accordance with **SAE J2716**, you will always be able to access exact **positional feedback**. The integrated PWM power outputs for current vectors up to **10 A** are suitable for practically all actuators. A free definition of the **soft stop range** guarantees a trouble-free approach to mechanical stops.

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Geschäftsführer/President:
Prof. Dr. Alfred Neher, Sofia Neher
HRB-No.: 24 5011, VAT No.: DE 189 768 946

The target position under normal operative conditions can be set using the **integrated rotary encoder**, an **external analogue command signal (0-10 V)**, a **configurable ramp travel** or using **CAN**.

All settings and parameters will be clearly displayed on the **integrated OLED display**.

The compact design (200 x 106 x 60 mm) and the robust aluminium housing ensure that the FlexGen-M BLDC is perfectly suited for rough and mobile use on **test benches** and in **production environments** in addition to **end-of-line tests**.



BU: FLEXGEN-M BLDC - Signal generator for controlling brushless direct current motors

About STAR COOPERATION

Networked competence and passion for your success: Since 1997, STAR COOPERATION has been supporting companies of all sizes and sectors in efficiently planning, designing and successfully implementing projects. Customers benefit from interdisciplinary know-how and synergies in the areas of CONSULTING, ELECTRONICS, ENGINEERING, IT, LOGISTICS AND MEDIA. Drawing on experienced experts from the field, STAR® delivers innovative ideas and well thought-out solutions that are precisely adapted to their customers and the individual needs of each project. This means they can make the most of your resources and improve every day.

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STAR COOPERATION®

Your Partners in Excellence

STAR COOPERATION GmbH is certified under the management systems DIN EN ISO 9001:2015, ISO 50001:2011, ISO 14001:2015 and ISO 45001:2018.

Concentrated know-how in the field of ELECTRONICS. Our automotive electronics experts provide extensive solutions in the field of workshop, production and development for test and validation of automotive E/E systems for all power and voltage ranges as well as all bus systems

We look forward to a voucher copy

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