

Motor controller SFRG 06 for DC- and BLDC-Drives

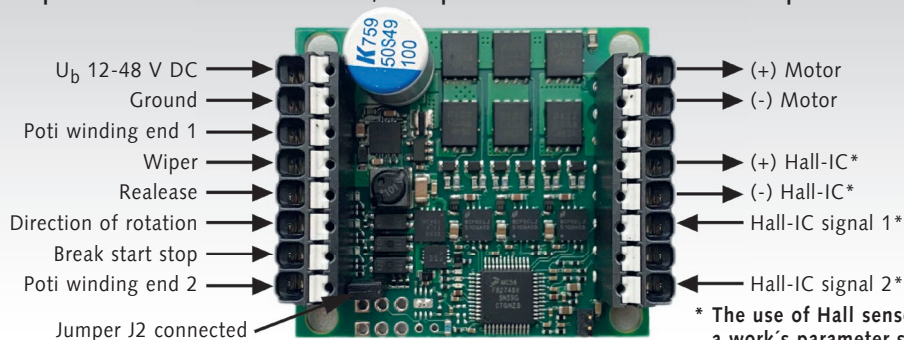
- Intelligent motor controller with PWM output for speed setting or controlling of brushed DC motors or brushless BLDC motors.
- Self-detection, if a brushed motor or a brushless motor is connected.
- Supply voltage: 12 - 48 V DC.
- Motor current: 2,5 A continuous load uncooled (peak 5 A).
- Speed setting device or PI-controller operation (if needed, the controller operation can be parameterised by the manufacturer).
- Input signals: Possible with closed contact or voltage 10 – 24 V DC (may come from SPS).
- Setpoint setting possible via external pot (not included) or voltage signal 0-10 V DC (analog to input signals).
- Compact version thanks to SMD technology.

Also available as CANopen-Bus version (customized product with extended hardware).

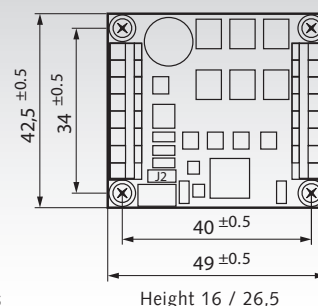


Ordering Details: Product No. 430 460 06, Control Unit SFRG 06

Example: Connection with DC motor, with potential-free break contact and potentiometer



Dimensions in mm:



* The use of Hall sensors requires a work's parameter setting.

Product No. 430 460 06, Control Unit SFRG 06

Electrical data

Supply voltage:	12 V ... 48 V DC.
No load current:	max. 70 mA.
Motor nominal current:	peak current max. 5 A (short time). continuous load 2.5 A.
Speed selection:	external potentiometer 10 kOhm or voltage input signal 0 ... 10 V DC.
Logical inputs:	potential-free NO contact or voltage input signal 10 ... 24 V DC (may come from SPS).
Hall sensor input:	max. 1 kHz.
Supply voltage for impulse generator:	UB = 5 V DC, continuous load max. 25 mA.
Switching frequency PWM motor output:	24 kHz.
Test standards:	EMV standard EN 61800-3. circuit board self-extinguishing according to UL 94 V-0. PB-free according to RoHS. conform to CE standards.

Note: After installing the controller, the application of the whole system must be checked on conformity to the CE standards!

Mechanical data

Connections:	2 plug-in spring-type terminals with 8 poles for wire size 0,2 mm ² ... 1,5 mm ²
Design / Mounting:	Open module IP00, without touch protection, for installing in a closed control cabinet or similar housing made from metal with protection class IP 4x. Not isolated; only for low voltage operation (SELV). Mounting on isolated spacers, alternatively on isolated heat conduction mat. Adequate ventilation and free convection must be provided.
Ambient conditions:	Permissible ambient operating temperature 0°C ... +40°C. Storage temperature -20°C ... +80°C. Relative humidity 95%, not condensating.
Dimensions:	49 x 42.5 x 26 mm with mounting support, 49 x 42.5 x 16 mm without mounting support.
Weight:	25 g.

Mounting Hardware

- Screw-less connection technology.
- Universal mounting support included in delivery,
for DIN rail or for fastening with screws.

**Operation manual in German as PDF-file
at www.maedler.de**