



D-SINUS Motor Controller

The innovative motor regulation in the Deutronic® D-SINUS Series is based on state of the art, sinus-commutated speed controller technology.

Compared with the competition the extremely complex control algorithm of the D-SINUS controller enables operation without the need for additional, elaborate sensors.

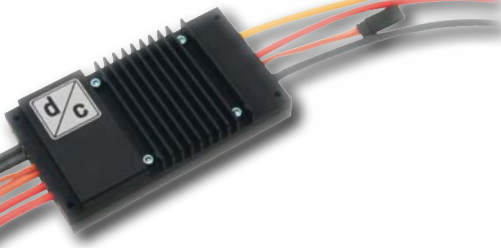
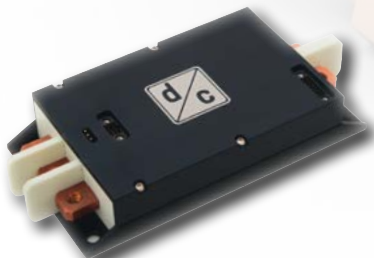
Therefore a higher degree of synchronisation can be achieved by field-oriented-controlled phase currents. Due to the sinusoidal current characteristic the efficiency is increased and the torque generated is constant in contrast to block commutation.

Benefits

- Sensorless motor control
- Maximum efficiency
- High degree of synchronization
- Compact design



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Technical Data

Input voltage	16-52VDC (D-Sinus 120/180) 22-58VDC (D-Sinus 350); 22-98VDC and 22-134VDC on request
Phase current	D-SINUS 120 120A D-SINUS 180 180A D-SINUS 350 350A
Operating modes	Speed control Torque control

Options

- Different interfaces:
CAN (D-SINUS 180 and 350), Uart, ext. temperature sensors, position sensing
(Hall-sensors/Quadrature encoder)
- Telemetry
- Recuperation (current limited) for controlled battery charging



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