

HEIDENHAIN

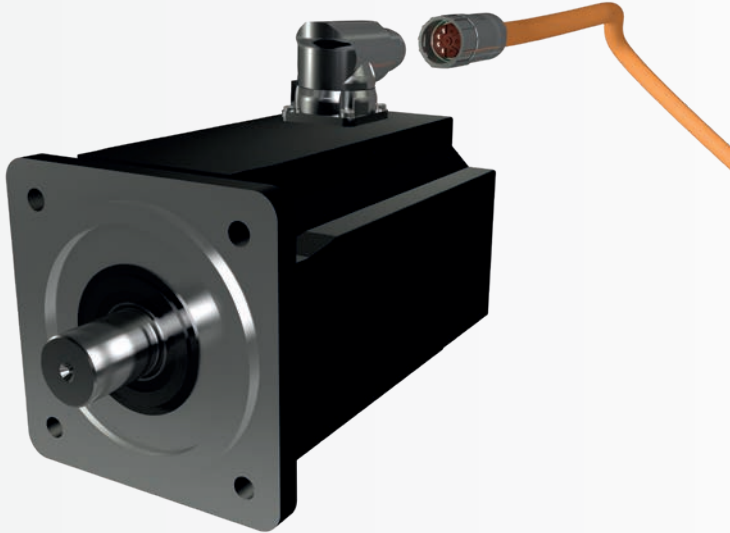
EnDat 3



HMC 2

One Cable, One Connector, All of the Data

Innovative connection technology



Hybrid cable solutions offer optimization potential

- Reduced cabling
- Smaller drag chains and improved drag-chain suitability
- Ability to incorporate additional sensors
- Easier integration into the machine housing

HMC 2 is the perfect addition to HMC 6

- Reduced logistics for cables and connectors
- Quick and easy installation
- Fewer serviceable components needed
- Tested cable and connector combination

Standard components for a dependable connection

A proven connection

The HMC 2 solution is based on prevalent and robust standard connection technology:

- Fully assembled hybrid cable with an M12 or M23 SpeedTEC connector
- M12 or M23 SpeedTEC flange socket (rotatable)
- Output cables inside the motor housing

As a result, HMC 2 offers these key benefits:

- Complete connector-cable-encoder system
- Cost-optimized hybrid cable solutions
- EMC testing in a realistic environment

SpeedTEC is a registered trademark of TE Connectivity Industrial GmbH.



High noise immunity

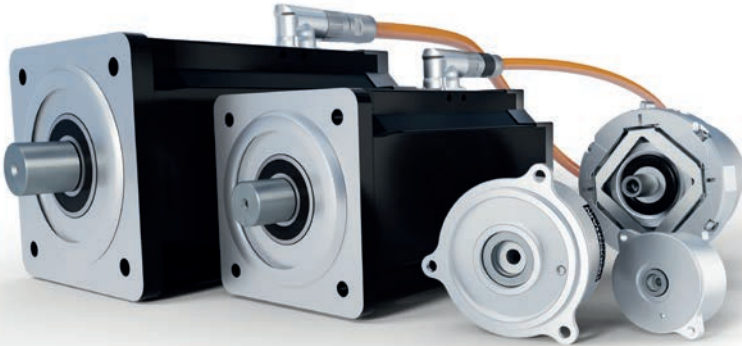
Single-cable solution for electric motors

Small servomotors

- HMC 2 with M12 SpeedTEC connector technology
- Current load of up to 8 A
- Working voltage of up to 630 V

Large servomotors

- HMC 2 with M23 SpeedTEC connector technology
- Current load of up to 13.2 A
- Working voltage of up to 630 V



Robust measurement technology for motors

Absolute rotary encoders with inductive scanning

- 19-bit singleturn
- 12-bit multiturn



ECI 1319 / EQI 1331 and ECI 1119 / EQI 1131

Absolute rotary encoders with optical scanning

- 25-bit singleturn
- 12-bit multiturn



ECN 1325 / EQN 1337

Easy installation and configuration

Extensive system monitoring

HEIDENHAIN encoders provide all of the information needed for configuration, monitoring, and diagnostics:

- Inspection of the encoder mounting quality
- Alignment of the encoder position to the motor commutation
- Configuration of the characteristic curve of the motor temperature sensor (KTY 84 / PT 1000)
- Configuration of the temperature warning threshold



ATS Adjusting and Testing Software

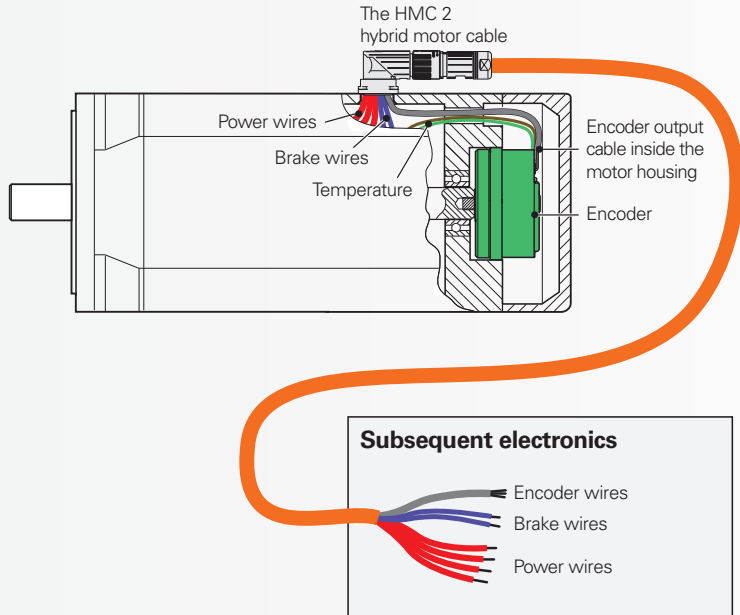


PWM 21



EnDat 3 adapter (SA 1210)

Costs and quality benefits



Hybrid motor cable with two-wire communication

The new HMC 2 hybrid motor cable combines the encoder wires and power wires within a single line. As a result, only one cable is needed between the motor and the electrical cabinet.


- The HMC 2 single-cable solution for motor encoders with the EnDat 3 interface
- Purely serial data transmission in accordance with RS-485, with a constant data rate:
 - 12.5 Mbit/s at cable lengths of up to 100 m
 - 25.0 Mbit/s at cable lengths of up to 40 m
- Standard components for a dependable connection

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