

**Functionality solved easily:
Simple positioning application module**

MOVITRAC® B frequency inverter



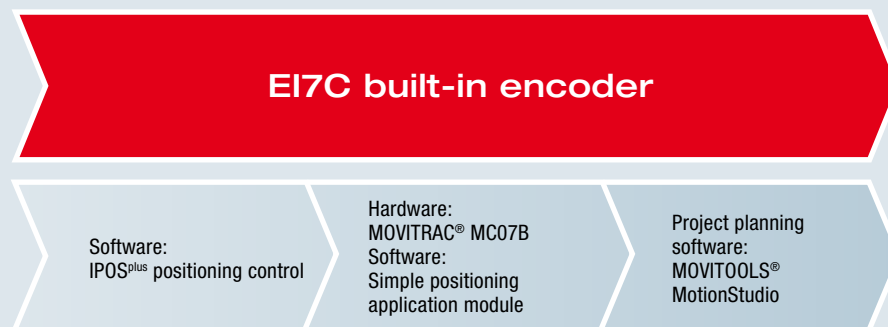
Just open the pre-programmed application module,
enter parameters – ready

In the future, positioning tasks, such as conveyor and logistics applications, can be implemented easily, economically, and above all in a user-friendly manner. The standard MOVITRAC® B frequency inverter with integrated simple positioning application module combines cost-optimized drive electronics with pre-programmed functionality and ease of use.

Many applications previously realized with rapid/creep speed switch-over with initiator evaluation can now be easily replaced. Instead of conventional encoders, a cost-optimized SEW built-in encoder is used with up to 24 pulses per motor revolution. Direct connection to MOVITRAC® B eliminates the use of expensive encoder cards. Another advantage is the compact design that allows for

integration without adding length to the motor. No programming knowledge is required for setting parameters because users are intuitively guided by the IPOS^{plus} positioning control with the help of the MOVITOOLS® MotionStudio engineering software to enable quick implementation.

Software: Simple positioning application module



Requirements

- DRx or DTx / DVx motor with brake
- Standard MOVITRAC® B inverter with firmware version \geq x.10

Application example with built-in encoder and simple positioning

One application module, many options

MOVITRAC® MC07B
with simple positioning
application module and
direct connection to DIO.



Standard motor



With integrated EI7C built-in
encoder: 24 pulses per motor
revolution, no extra length.



Application examples:
Applications with replacement
of rapid/creep change-over with
initiator evaluation, such as
rotary tables, hoists or transverse
carriages.



Application example with standard encoder

MOVIDRIVE® B with
encoder card option



Motor with add-on
encoder (incremental
encoder)



Motor with absolute encoder
(add-on encoder):
e.g. 1024 pulses



Application examples:
Applications with high dyna-
mics for exact positioning,
such as storage/retrieval
units, handling systems,
motion control



Overview of benefits

Simple implementation

- User-friendly user interface
 - Intuitive operation
 - Monitor mode for diagnostics
- Guided parameter setting instead of complex programming
 - Reduction to the most necessary parameters
 - No programming experience is required
- High level of functionality
 - Bus positioning variant (via SBus)
 - Table positioning variant (using terminals via FIO21B digital module)
 - Four operating modes: Jog mode, teach mode, referencing mode, positioning mode
 - Software limit switches, limit switches, reference point, machine zero
- High level of integration compared to conventional encoders (no additional motor length)

Wide range of applications

- Material handling technology
 - Trolleys
 - Roller conveyors
 - Rotary tables
 - Simple hoists
- Logistics
 - Transverse carriage
 - Trolleys
- Format adjustment

Cost-optimized alternative for simple positioning tasks

- Fast system availability thanks to short startup times
- Low encoder costs by using simple encoders or HTL encoders
- Flexible through the possibility of retrofit into existing systems (DR/DT/DV motors with brake)
- No encoder card is required as data is read digitally by MOVITRAC® B
- Fast installation due to prefabricated cables (cable carrier or fixed installation)



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