

Basic, cost-effective motor control in one unit:
MOVITRAC® 07.

Frequency inverter



Small but smart

MOVITRAC® 07 – first choice when it comes to doing things quickly and easily. All the essential features and functions for uncomplicated, cost-effective motor control are combined in the MOVITRAC® 07, making it just as effective and reliable as any of its bigger relatives. And best of all, it can be started up and operated in the simplest way.

MOVITRAC® 07 was conceived for simple applications in conveyor or metering systems, in agitators, ventilators or pumps, in rotary tables or roller conveyors and many more. This convincing concept makes the MOVITRAC® 07 a particularly interesting and economical choice for such applications.

MOVITRAC® 07 is available in many sizes – compact and cost-effective for basic motor control



Driving the world: with innovative drive solutions for all branches of industry and for each application. Products and systems from SEW-EURODRIVE for any application, worldwide! SEW-EURODRIVE products can be found in a variety of industries, e.g. automotive, building materials, food and beverage as well as metal-processing. The decision to use drive technology "made by SEW-EURODRIVE" stands for safety regarding functionality and investment.





MOVITRAC® 07 – electronic drive control made easy

The answer to market requirements for a compact frequency inverter with comprehensive functionality: MOVITRAC® 07

MOVITRAC® 07 with its compact design saves installment space in the switch cabinet. Standard integration of brake chopper and EMC input filter in Class B or A. As an option, the braking resistor can be installed in the basic unit.

MOVITRAC® 07 is particularly user-friendly. The integrated keypad comprises easy-to-understand function symbols and keys. Unit startup is a very straightforward matter based on the "Plug-and-Play" principle. The user-friendly menu and automatic motor adjustment makes startup fast and simple. In addition, a setpoint potentiometer is integrated, making manual speed adjustment possible as well.

Space-saving installment – MOVITRAC® 07, the compact frequency inverter

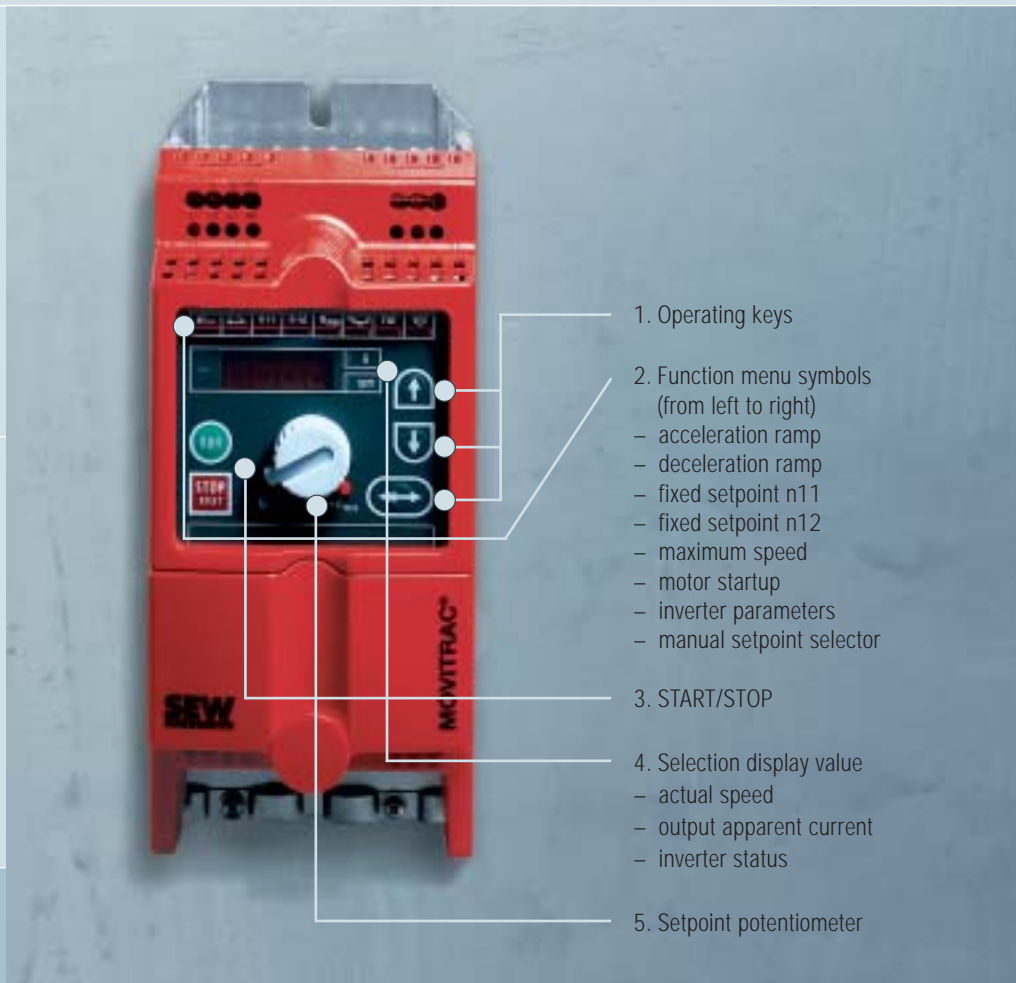


MOVITRAC® 07 – the small but smart inverter, particularly economical and easy to operate. The compact design saves installment space in the switch cabinet. The wide range of functions serves a broad range of applications.

Making startup as easy as possible

With the integrated keypad you are ready to start in next to no time – simply enter the rated electrical data for the drive, and the MOVITRAC® 07 is ready for operation. For further ease of operation and for diagnosis of status messages, the MOVITOOLS software comes free of charge.

Not only user-friendly installation, but also the MOVITRAC® 07 connection technology has been a focal point for our engineers. The EMC-compliant wiring of the motor and control leads is optimally protected by the integrated shield connections.



All the parameters for the MOVITRAC® 07 can be entered quickly and simply with the integrated keypad. Parameters that are frequently used can be selected directly from the functions menu.

1. Operating keys
2. Function menu symbols (from left to right)
 - acceleration ramp
 - deceleration ramp
 - fixed setpoint n11
 - fixed setpoint n12
 - maximum speed
 - motor startup
 - inverter parameters
 - manual setpoint selector
3. START/STOP
4. Selection display value
 - actual speed
 - output apparent current
 - inverter status
5. Setpoint potentiometer



MOVITRAC® 07 convinces with a comprehensive and sophisticated unit concept:
Simple, quick and easy to operate startup ensures complete functionality and safety of the system.

MOVITRAC® 07 offers a full range of functions for a broad spectrum of applications

The UBP11A parameter module offers **additional functionality and safety**. It serves as an external parameter memory to not only save parameter data but copy existing parameter sets to other frequency inverters. The parameter module is equipped with only two function keys, which makes for convenient operation. All operating states are displayed via LED. Even the storage of the module has been carefully planned out: You simply snap it into a receptacle on the front of the frequency inverter.

The MOVITRAC® 07 can be operated in **both standard V/f control mode or field-oriented VFC (no encoder)**. High overload capacity, integrated protection and monitoring functions and an extended temperature range are also standard features. An evaluation unit for the motor temperature sensor integrated into the MOVITRAC® 07 provides optimum motor protection. Not only that, the PI controller, installed as a standard, allows independent regulation of process variables such as flow and pressure.



UBP11A parameter module for convenient data transfer and fast data backup

Operation of up to 8 MOVITRAC®, 07 units via **one fieldbus gateway**:

Unit concept:

- External fieldbus gateway (Fieldbus → SBus)
- IP20 control cabinet

Unit designs:

- UFP11A → PROFIBUS
- UFD11A → DeviceNet
- UFI11A → INTERBUS
- UFO11A → CANopen

Optional DIN rail mounting



Complete functionality – in a compact package: MOVITRAC® 07 technical data

3phase system 400 V_{AC} / 0.55 ... 4.0 kW



| MOVITRAC® 07 Type | MC07A-005 | MC07A-008 | MC07A-011 | MC07A-015 | MC07A-022 | MC07A-030 | MC07A-040 |
|--|---|-----------|-----------|-----------------------------------|-----------|-----------|-----------|
| Supply voltage [V] | 3 x 380 ... 500 ± 10 % for 50 ... 60 Hz ± 5 % | | | | | | |
| Output frequency [Hz] | 0 ... 400 | | | | | | |
| Recommended motor power [kW] with overload reserve 1,5 x I _N Output rated current [A] 400 V | 0.55 | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 400 V | 0.75 | 1.1 | 1.5 | 2.2 | 3.0 | 4.0 | 5.5 |
| EMV measures | Integrated input filter A (EN 55011) | | | | | | |
| Main dimensions in mm (in) W x H x D | 90 x 245 x 150 (3.5 x 9.6 x 5.9) | | | 90 x 295 x 150 (3.5 x 11.6 x 5.9) | | | |
| Size | 0M | | | 0L | | | |

3phase system 400 V_{AC} / 5.5 ... 30.0 kW



| MOVITRAC® 07 Type | MC07A-055 | MC07A-075 | MC07A-110 | MC07A-150 | MC07A-220 | MC07A-300 |
|--|---|-----------|---|---------------------------------------|-----------|-----------|
| Supply voltage [V] | 3 x 380 ... 500 ± 10 % for 50 ... 60 Hz ± 5 % | | | | | |
| Output frequency [Hz] | 0 ... 400 | | | | | |
| Recommended motor power [kW] with overload reserve 1,5 x I _N Output rated current [A] 400 V | 5.5 | 7.5 | 11.0 | 15.0 | 22.0 | 30.0 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 400 V | 7.5 | 11.0 | 15.0 | 22.0 | 30.0 | 37.0 |
| EMV measures | Integrated input filter A (EN 55011) | | | – | – | – |
| Main dimensions in mm (in) W x H x D | 105 x 335 x 205 (4.1 x 13.2 x 8.1) | | 130 x 335 x 196 (5.1 x 13.2 7.7) | 200 x 465 x 218 (7.9 x 18.3 x 8.6) | | |
| Size | 2S | | 2 | 3 | | |

3phase system 400 V_{AC} / 37.0 ... 45.0 kW



| MOVITRAC® Type | MC07A-370 | MC07A-450 |
|---|---|---------------|
| Supply voltage [V] | 3 x 380 ... 500 ± 10 % for 50 ... 60 Hz ± 5 % | |
| Output frequency [Hz] | 0 ... 400 | |
| Recommended motor power [kW] with overload reserve 1,5 x I _N Output rated current [A] 400 V | 37.0 73.0 | 45.0 89.0 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 400 V | 45.0 91.0 | 55.0 111.0 |
| EMV measures | – | |
| Main dimensions in mm (in) W x H x D | 280 x 522 x 222 (11.0 x 20.6 x 8.7) | |
| Size | 4 | |

Extended performance range up to 132 kW in preparation

Phone: 800.894.0412 - Fax: 888.723.4773 - Web: www.clwtr.com - Email: info@clwtr.com

1phase system 230 V_{AC} / 0.37 ... 2.2 kW



| MOVITRAC® 07 Type | MC07A-004 | MC07A-005 | MC07A-008 | MC07A-011 | MC07A-015 | MC07A-022 |
|--|---|-------------|-------------|-----------------------------------|------------|-------------|
| Supply voltage [V] | 1 x 200 ... 240 ± 10 % for 50 ... 60 Hz ± 5 % | | | | | |
| Output frequency [Hz] | 0 ... 400 | | | | | |
| Recommended motor power [kW] with overload reserve 1,5 x I _n Output rated current [A] 230 V | 0.37 2.5 | 0.55 3.3 | 0.75 4.2 | 1.1 5.7 | 1.5 7.3 | 2.2 8.6 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 230 V | 0.55 3.1 | 0.75 4.1 | 1.1 5.3 | 1.5 7.1 | 2.2 9.1 | 3.0 10.8 |
| EMV measures | Integrated input filter B (EN 55011) | | | | | |
| Main dimensions in mm (in) W x H x D | 90 x 185 x 150 (3.5 x 7.2 x 5.9) | | | 90 x 295 x 150 (3.5 x 11.6 x 5.9) | | |
| Size | 0S | | | 0L | | |

3phase system 230 V_{AC} / 0.37 ... 2.2 kW



| MOVITRAC® 07 Type | MC07A-004 | MC07A-005 | MC07A-008 | MC07A-011 | MC07A-015 | MC07A-022 |
|--|---|-------------|-------------|-----------------------------------|------------|-------------|
| Supply voltage [V] | 3 x 200 ... 240 ± 10 % for 50 ... 60 Hz ± 5 % | | | | | |
| Output frequency [Hz] | 0 ... 400 | | | | | |
| Recommended motor power [kW] with overload reserve 1,5 x I _n Output rated current [A] 230 V | 0.37 2.5 | 0.55 3.3 | 0.75 4.2 | 1.1 5.7 | 1.5 7.3 | 2.2 8.6 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 230 V | 0.55 3.1 | 0.75 4.1 | 1.1 5.3 | 1.5 7.1 | 2.2 9.1 | 3.0 10.8 |
| EMV measures | Integrated input filter A (EN 55011) | | | | | |
| Main dimensions in mm (in) W x H x D | 90 x 185 x 150 (3.5 x 7.2 x 5.9) | | | 90 x 295 x 150 (3.5 x 11.6 x 5.9) | | |
| Size | 0S | | | 0L | | |

3phase system 230 V_{AC} / 3.7 ... 30.0 kW



| MOVITRAC® 07 Typ | MC07A-037 | MC07A-055 | MC07A-075 | MC07A-110 | MC07A-150 | MC07A-220 | MC07A-300 |
|--|---|---------------------------------------|--------------|---------------------------------------|--------------|--|---------------|
| Supply voltage [V] | 3 x 200 ... 240 ± 10 % for 50 ... 60 Hz ± 5 % | | | | | | |
| Output frequency [Hz] | 0 ... 400 | | | | | | |
| Recommended motor power [kW] with overload reserve 1,5 x I _n Output rated current [A] 230 V | 3.7 14.5 | 5.5 22.0 | 7.5 29.0 | 11.0 42.0 | 15.0 54.0 | 22.0 80.0 | 30.0 95.0 |
| Recommended motor power [kW] without overload reserve Output rated current [A] 230 V | 5.5 18.1 | 7.5 27.5 | 11.0 36.3 | 15.0 52.5 | 22.0 67.5 | 30.0 100.0 | 37.0 118.8 |
| EMV measures | Integrated input filter A (EN 55011) | | | - | - | - | - |
| Main dimensions in mm (in) W x H x D | 105 x 315 x 144 (4.1 x 12.4 5.7) | 130 x 335 x 196 (5.1 x 13.2 x 7.7) | | 200 x 465 x 218 (7.9 x 18.3 x 8.6) | | 280 x 522 x 222 (11.0 x 20.6 x 8.7) | |
| Size | 1 | 2 | | 3 | | 4 | |