

Compact and versatile for standard applications:
MOVITRAC® B

Frequency Inverters



“Application-specific” redefined





“Device modularity” and “reduced size” are the most important selection criteria when purchasing a frequency inverter for standard applications. Frequency inverters of the MOVITRAC® B series not only meet the major technical data, they are also economically in terms of purchase and operation, and have proven reliable in practice for years.

Designed, developed, and made by SEW-EURODRIVE makes this inverter series perfectly matched to the motors of the DR... series. They control the speed of the new DR...J synchronous motors (LSPM technology) just like that of asynchronous motors or explosion-proof

EDR...x motors. The series is completed by a modular concept of options and accessories. This is why the frequency inverters of the MOVITRAC® B series are suited for a wide range of industries and applications.



More features at a glance

- Temperature range: up to + 60° C
- Operating state LED
- Motor control:
 - U/f characteristics control for simple startup
 - VFC (Voltage Flux Control) vector control for field-oriented control (no encoder)
- Control signals: 6 programmable digital inputs, 2 programmable digital outputs, 1 programmable relay output, 1 analog setpoint input with DC 10 V voltage supply, 24 V voltage supply
- Control electronics:
 - 24 V supply for internal or optionally external backup mode
 - 10 V supply for external potentiometer
- Removable FBG11B keypad for diagnostics, parameter setting, and data backup
- Degree of protection: IP20, IP10 as of 37 kW rated power
- Motor cable length: shielded min. 50 m; unshielded min. 100 m
- IT system capability
- Separable signal terminals
- Separable power terminals (up to 4 kW)
- Startup principle: Plug-and-play
- Cold-plate technology: Heat dissipation interface to external heat sink or machine components
- Approvals:    
- Device functions: Lifting, flying restart, motor potentiometer, setpoint holding function, 2 motor parameter sets, PI controller
- Integrated safety function STO (Safe Torque Off)
- Integrated EMC filter (up to 11 kW)

Typical fields of application of MOVITRAC® B

From fan applications to material handling technology up to simple positioning functions: MOVITRAC® B series frequency inverters solve many tasks in an easy and economic manner.

The standard version of MOVITRAC® B can be used in material handling technology applications, in pump applications, or in centrifuges.

Simple positioning, for example for hoists, transverse carriages or rotary tables, is implemented with MOVITRAC® B using IE7C built-in encoders and the "simple positioning" application module as replacement of conventional rapid/creep changeover via initiator.

In combination with energy efficient motors, MOVITRAC® B allows for cost-efficient control of continuous movements in material handling or fan technology applications.



Frequency inverter with added value

1. effiDRIVE® – Energy-saving solutions that pay off

Rising energy prices and an ever growing ecological awareness motivate also plant operators in looking for energy-saving potential in their production. SEW-EURODRIVE offers a comprehensive energy-saving concept also for the standard MOVITRAC® B frequency inverter:

- Energy-saving function
- Energy exchange through DC link coupling (size 2 and greater)
- Regenerative power supply (size 2 and greater)
- Process adjustment
- Energy efficient motors up to efficiency class IE4 are supported
- Energy consulting

2. safetyDRIVE – Functional safety for man and machine

MOVITRAC® B with functional safety up to PL d according to EN ISO 13849-1* meets the challenge of preventing accidents and at the same time implementing trouble-free and efficient system operation:

- Safe torque off (STO)
- Safe stop (SS1)
- Safe communication with PROFIsafe
- Supplementary components MOVISAFE® (integrated or modular safety on the inverter)

* depends on the selected size

3. Drive technology – Technological edge

Our claim: Drive technology that can be used in a flexible, functional and cost-optimized manner and at the same time contributes to profitable plant operation. Also MOVITRAC® B allows for innovative drive solutions that go way beyond the standard:

- System of modular components with a great variety of options and accessories
- Integrated IPOS^{plus} positioning and sequence control
- Simple positioning with SEW built-in encoder EI7C
- Intuitively guided startup
- DR...J (LSPM motors) and explosion-proof motors are supported
- Motion control from a single source

4. Complete Drive Service – Green light for your production

The Complete Drive Service (CDS) from SEW-EURODRIVE offers a comprehensive range of services also for MOVITRAC® B. The service concept is based on the modular concept as well, meaning the service modules can be combined individually as required:

- Global service
- Customer proximity with 200 sales offices
- 24-hour availability
- Remote maintenance and repair
- Spare part service
- Training courses at the SEW DriveAcademy®



Supply voltage V_{AC} : 1x 200/240 ± 10 %

Line frequency Hz: 50 ... 60 ± 5 %

MOVITRAC® B	Power range type	Nominal output [kW]	Size current [A]	Dimensions in mm W x H x D
MC07B 0003-2B1-4-00	0.25	1.7	0XS	55 x 185 x 165
MC07B 0004-2B1-4-00	0.37	2.5		
MC07B 0005-2B1-4-00	0.55	3.3	0S	80 x 185 x 165
MC07B 0008-2B1-4-00	0.75	4.2		
MC07B 0011-2B1-4-00	1.1	5.7	0L	80 x 274 x 165
MC07B 0015-2B1-4-00	1.5	7.3		
MC07B 0022-2B1-4-00	2.2	8.6		

Supply voltage V_{AC} : 3x 200/240 ± 10 %

Line frequency Hz: 50 ... 60 ± 5 %

MOVITRAC® B type	Power range [kW]	Nominal output current [A]	Size	Dimensions in mm W x H x D
MC07B 0003-2A3-4-00	0.25	1.7	0XS	55 x 185 x 165
MC07B 0004-2A3-4-00	0.37	2.5		
MC07B 0005-2A3-4-00	0.55	3.3	0S	80 x 185 x 165
MC07B 0008-2A3-4-00	0.75	4.2		
MC07B 0011-2A3-4-00	1.1	5.7	0L	80 x 274 x 165
MC07B 0015-2A3-4-00	1.5	7.3		
MC07B 0022-2A3-4-00	2.2	8.6		
MC07B 0037-2A3-4-00	3.7	14.5		
MC07B 0055-2A3-4-00	5.5	22.0	2	130 x 335 x 229
MC07B 0075-2A3-4-00	7.5	29.0		
MC07B 0110-203-4-00	11.0	42.0	3	200 x 465 x 251
MC07B 0150-203-4-00	15.0	54.0		
MC07B 0220-203-4-00	22.0	80.0	4	280 x 522 x 250
MC07B 0300-203-4-00	30.0	95.0		

Supply voltage V_{AC} : 3x 400/500 \pm 10 %

Line frequency Hz: 50 ... 60 \pm 5 %

MOVITRAC® B type	Power range [kW]	Nominal output current [A]	Size	Dimensions in mm W x H x D
MC07B 0003-5A3-4-00	0.25	1.0	0XS	55 x 185 x 165
MC07B 0004-5A3-4-00	0.37	1.6		
MC07B 0005-5A3-4-x0	0.55	2.0	0S	80 x 185 x 165
MC07B 0008-5A3-4-x0	0.75	2.4		
MC07B 0011-5A3-4-x0	1.1	3.1		
MC07B 0015-5A3-4-x0	1.5	4.0		
MC07B 0022-5A3-4-x0	2.2	5.5	0L	80 x 274 x 165
MC07B 0030-5A3-4-x0	3.0	7.0		
MC07B 0040-5A3-4-x0	4.0	9.5		
MC07B 0055-5A3-4-00	5.5	12.5	2S	105 x 335 x 238
MC07B 0075-5A3-4-00	7.5	16.0		
MC07B 0110-5A3-4-00	11.0	24.0	2	130 x 335 x 229
MC07B 0150-503-4-00	15.0	32.0	3	200 x 465 x 251
MC07B 0220-503-4-00	22.0	46.0		
MC07B 0300-503-4-00	30.0	60.0		
MC07B 0370-503-4-00	37.0	73.0	4	280 x 522 x 250
MC07B 0450-503-4-00	45.0	89.0		
MC07B 0550-503-4-00	55.0	105.0	5	280 x 610 x 330
MC07B 0750-503-4-00	75.0	130.0		

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