

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 EDRx 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<sup>plus</sup> 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 type	Power range [kW]	Nominal output current [A]	Size	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		

## How we're driving the world



**SEW-EURODRIVE**  
Driving the world

## SEW-EURODRIVE is right there for you:

### Argentina

Phone +54 3327 4572-84  
Fax +54 3327 4572-21  
sewar@sew-eurodrive.com.ar

### Australia

Phone +61 3 9933-1000  
Fax +61 3 9933-1003  
enquires@sew-eurodrive.com.au

### Austria

Phone +43 1 617 55 00-0  
Fax +43 1 617 55 00-30  
sew@sew-eurodrive.at

### Belarus

Phone +375 17 298 38 50  
Fax +375 17 298 1898  
sales@sew.by

### Belgium

Phone +32 16 386-311  
Fax +32 16 386-336  
info@sew-eurodrive.be

### Brazil

Phone +55 11 2489-9133  
Fax +55 11 2480-3328  
sew@sew.com.br

### Canada

Phone +1 905 791-1553  
Fax +1 905 791-2999  
marketing@sew-eurodrive.ca

### Chile

Phone +56 2 75770-00  
Fax +56 2 75770-01  
ventas@sew-eurodrive.cl

### China

Phone +86 22 25322612  
Fax +86 22 25323273  
info@sew-eurodrive.cn

### Colombia

Phone +57 1 54750-50  
Fax +57 1 54750-44  
sewcol@sew-eurodrive.com.co

### Czech Republic

Phone +420 255709601  
Fax +420 235350613  
sew@sew-eurodrive.cz

### Denmark

Phone +45 43 9585-00  
Fax +45 43 9585-09  
sew@sew-eurodrive.dk

### Finland

Phone +358 201 589-300  
Fax +358 3 7806-211  
sew@sew.fi

### France

Phone +33 3 88 73 67 00  
Fax +33 3 88 73 66 00  
sew@usocome.com

### Great Britain

Phone +44 1924 893-855  
Fax +44 1924 893-702  
info@sew-eurodrive.co.uk

### Hong Kong

Phone +852 36902200  
Fax +852 36902211  
contact@sew-eurodrive.hk

### Hungary

Phone +36 1 437 06-58  
Fax +36 1 437 06-50  
office@sew-eurodrive.hu

### India

Phone +91 265 2831086  
Fax +91 265 2831087  
mdoffice@seweurodriveindia.com

### Italy

Phone +39 02 96 9801  
Fax +39 02 96 799781  
sewit@sew-eurodrive.it

### Japan

Phone +81 538 373811  
Fax +81 538 373814  
sewjapan@sew-eurodrive.co.jp

### Kazakhstan

Phone +7 727 334 1880  
Fax +7 727 334 1881  
sew@sew-eurodrive.kz

### Malaysia

Phone +60 7 3549409  
Fax +60 7 3541404  
sales@sew-eurodrive.com.my

### Mexico

Phone +52 442 1030-300  
Fax +52 442 1030-301  
scmexico@seweurodrive.com.mx

### Morocco

Phone +212 523 32 27 80/81  
Fax +212 523 32 27 89  
sew@sew-eurodrive.ma

### Netherlands

Phone +31 10 4463-700  
Fax +31 10 4155-552  
info@sew-eurodrive.nl

### New Zealand

Phone +64 9 2745627  
Fax +64 9 2740165  
sales@sew-eurodrive.co.nz

### Norway

Phone +47 69 241-020  
Fax +47 69 241-040  
sew@sew-eurodrive.no

### Peru

Phone +51 1 3495280  
Fax +51 1 3493002  
sewperu@sew-eurodrive.com.pe

### Poland

Phone +48 42 6765300  
Fax +48 42 6765345  
sew@sew-eurodrive.pl

### Portugal

Phone +351 231 20 9670  
Fax +351 231 20 3685  
info@sew-eurodrive.pt

### Russia

Phone +7 812 3332522  
Fax +7 812 3332523  
sew@sew-eurodrive.ru

### Singapore

Phone +65 68621701  
Fax +65 68612827  
sewsingapore@sew-eurodrive.com

### Slovakia

Phone +421 2 33595202  
Fax +421 2 33595200  
sew@sew-eurodrive.sk

### South Africa

Phone +27 11 248-7000  
Fax +27 11 494-3104  
info@sew.co.za

### South Korea

Phone +82 31 492-8051  
Fax +82 31 492-8056  
master.korea@sew-eurodrive.com

### Spain

Phone +34 94 4318470  
Fax +34 94 4318471  
sew.spain@sew-eurodrive.es

### Sweden

Phone +46 36 344200  
Fax +46 36 344280  
info@sew-eurodrive.se

### Switzerland

Phone +41 61 41717-17  
Fax +41 61 41717-00  
info@imhof-sew.ch

### Thailand

Phone +66 38 454281  
Fax +66 38 454288  
sewthailand@sew-eurodrive.com

### Turkey

Phone +90 262 999 1000-04  
Fax +90 262 999 1009  
sew@sew-eurodrive.com.tr

### Ukraine

Phone +380 56 370 3211  
Fax +380 56 372 2078  
sew@sew-eurodrive.ua

### Uruguay

Phone +598 2 21181-89 +90  
Fax +598 2 21181-89 +90  
sewuy@sew-eurodrive.com.uy

### USA

Phone +1 864 439-7537  
Fax +1 864 439-7830  
cslyman@seweurodrive.com

### Venezuela

Phone +58 241 832-9804  
Fax +58 241 838-6275  
ventas@sew-eurodrive.com.ve

**SEW  
EURODRIVE**

SEW-EURODRIVE GmbH & Co KG  
P.O.Box 30 23  
76642 Bruchsal/Germany  
Phone +49 7251 75-0  
Fax +49 7251 75-1970  
sew@sew-eurodrive.com

→ [www.sew-eurodrive.com](http://www.sew-eurodrive.com)