

A frequency inverter that delivers just what you require...
... and that's what makes it so affordable!

The new MOVITRAC® LT
frequency inverter



Just what you've been waiting for

The new and exceptionally compact MOVITRAC® LT frequency inverter is now available. It offers an ideal and uncomplicated form of motor control: Effective and reliable! You can use MOVITRAC® LT to realize a number of applications quickly, easily and in a cost-effective way. The MOVITRAC® LT is uniquely suitable for applications including fan and ventilation systems (HVAC), pumps, as well as motor control in tool manufacturing and metalworking, conveying, machining and materials handling systems.

Available in two sizes, MOVITRAC® LT covers a power range from 0.37 to 4.0 kW and for operation on 1-phase (220-240 V) and 3-phase (380-480 V), 50/60 Hz power supply systems. MOVITRAC® LT offers the perfect balance between functionality and cost-effectiveness. With its 14 standard parameters and user-friendly interface, MOVITRAC® LT can be started up quickly and easily on-site. "plug in and drive": Startup doesn't require cost-intensive and time-consuming support services.

Fast and user-friendly:
The exceptionally compact MOVITRAC® LT frequency inverter



How we're 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.





MOVITRAC® LT – A practical frequency inverter

The demands for implementing frequency inverters are virtually the same in all systems: Little space in the cabinet and no time for complex startup procedures. However, in contrast to most other frequency inverters, these are the conditions in which the new MOVITRAC® LT frequency inverter from SEW-EURODRIVE is most at home!

MOVITRAC® LT –

Advantages at a glance:

- Exceptionally compact design
- Excellent price and performance
- Quick and simple startup procedure: “plug in and drive”
- User-friendly operation
- Tried and tested quality, as expected from SEW-EURODRIVE worldwide

MOVITRAC® LT –

a successful unit concept:

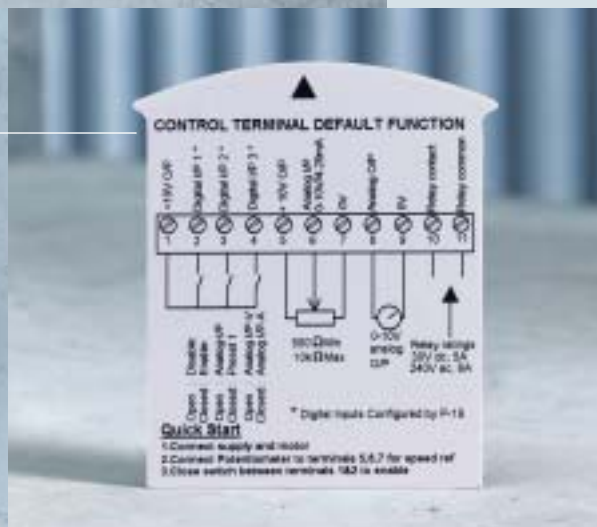
Application-oriented functionality, simple startup procedure and low installation costs:

- User-friendly, integrated operating panel with 7 segment display
- Help card on-board: List of all the standard drive parameters and terminal assignments
- 14 preconfigured standard parameters ensure quick and simple startup and operation
- 4 binary terminals with ability to accommodate 12 different functions
- Analogue input with 12 bit resolution for high levels of accuracy
- Analogue output
- Easy-to-access connection slots for quick installation
- Low-noise motor operation due to effective PWM frequency up to 32 kHz
- Integrated line filter as an option (EMC)
- Enclosure IP20
- 150 % overload for 60 s. / 175 % overload for 2 s.
- Diagnostic options using the last four errors saved by the unit



Fast and user-friendly

The user friendly integrated control unit for standard applications and the predefined parameter settings make the MOVITRAC® LT a simple and easy to use inverter. Thanks to these preconfiguration fewer errors and quick and easy commissioning are the benefits you get when you use MOVITRAC® LT.



Technical data: MOVITRAC® LT



1-phase system 220..240 V_{AC} / 0.37 ... 2.2 kW



| MOVITRAC® LT Type | MC LT E A 0004 201 1-00 | MC LT E A 0008 201 1-00 | MC LT E A 0015 201 1-00 | MC LT E A 0022 201 1-00 | MC LT E A 0004 2B1 1-00 | MC LT E A 0008 2B1 1-00 | MC LT E A 0015 2B1 1-00 | MC LT E A 0022 2B1 1-00 |
|--|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Part number | 828 360 5 | 828 361 3 | 828 362 1 | 828 364 8 | 828 365 6 | 8282 3664 | 8282 367 2 | 828 368 0 |
| Supply voltage [V] | IN: 1 x 220 ... 240 ± 10 %; 50/60 Hz ± 10 % | | | | | | | |
| Recommended motor power [kW] [Hp] | 0.37 0.5 | 0.75 1.0 | 1.5 2.0 | 2.2 3.0 | 0.37 0.5 | 0.75 1.0 | 1.5 2.0 | 2.2 3.0 |
| Output rated current [A] | 2.3 | 4.3 | 7.0 | 10.5 | 2.3 | 4.3 | 7.0 | 10.5 |
| EMC measures EN 61000-3 | 0 | | | | B (integrated EMC filter) | | | |
| Motor cable size Cu 75C [mm ²] | 1.0 | | | 1.5 | 1.0 | | | 1.5 |
| Max. Motor cable length [m] | 50 | | | 150 | 50 | | | 150 |
| Max. ambient temperature [°C] 8 kHz [°C] 16 kHz [°C] 32 kHz | 50 50 50 | 50 40 30 | | | 50 50 50 | 50 40 30 | | |
| Main dimensions [mm] W x H x D | 80 x 155 x 130 | | | 100 x 260 x 175 | 80 x 155 x 130 | | | 100 x 260 x 175 |
| Size | 1 | | | 2 | 1 | | | 2 |

3-phase system 380..480 V_{AC} / 0.75 ... 4.0 kW



| MOVITRAC® LT Type | MC LT E A 0008 503 1-00 | MC LT E A 0015 503 1-00 | MC LT E A 0022 503 1-00 | MC LT E A 0040 503 1-00 | MC LT E A 0008 5A3 1-00 | MC LT E A 0015 5A3 1-00 | MC LT E A 0022 5A3 1-00 | MC LT E A 0040 5A3 1-00 |
|--|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Part number | 828 369 9 | 828 370 2 | 828 371 0 | 828 372 9 | 828 373 7 | 828 374 5 | 828 375 3 | 828 376 1 |
| Supply voltage [V] | IN: 3 x 380 ... 480 ± 10 %; 50/60 Hz ± 10 % | | | | | | | |
| Recommended motor power [kW] [Hp] | 0.75 1.0 | 1.5 2.2 | 2.2 3.0 | 4.0 6.0 | 0.75 1.0 | 1.5 2.0 | 2.2 3.0 | 4.0 6.0 |
| Output rated current [A] | 2.2 | 4.1 | 5.8 | 9.5 | 2.2 | 4.1 | 5.8 | 9.5 |
| EMC measures EN 61000-3 | 0 | | | | A (integrated EMC filter) | | | |
| Motor cable size Cu 75C [mm ²] | 1.0 | | 1.5 | | 1.0 | | 1.5 | |
| Max. Motor cable length [m] | 15 | | 150 | | 15 | | 150 | |
| Max. ambient temperature [°C] 8 kHz [°C] 16 kHz [°C] 32 kHz | | | | | 50 40 30 | | | |
| Main dimensions [mm] W x H x D | 80 x 155 x 130 | | 100 x 260 x 175 | | 80 x 155 x 130 | | 100 x 260 x 175 | |
| Size | 1 | | 2 | | 1 | | 2 | |

System components to meet all demands

MOVITRAC® LT rounds off the large series of frequency inverters offered by SEW-EURODRIVE in the lower power range. In this way, the modular system from SEW-EURODRIVE can offer new combination options: Motors, gear units, gearmotors and drive electronics can be combined to create complete, perfectly coordinated, economic system solutions that can meet any challenge.

Switch cabinet level
Drive Electronics



**MOVIDRIVE®
Drive inverter**

Either VFC or CFC control mode, integrated process data memory, integrated positioning and sequence control IPOS^{plus}®, standardized

control programs = application modules via MOVITools operating software



Field level
Motors



AC motors

Power range
0.09 ... 200.0 kW

Frequency
40.0 ... 60.0 Hz
(Standard 50.0 Hz)



Energy-efficient motors

European standards
EFF1 = copper die-cast cage, 4-pole, 1.1 ... 37 kW
EFF2 = aluminum die-cast cage, 4-pole, 1.1 ... 75 kW

International standards
USA EPCAct, Brazil NBR 7094, Australia (MEPS) EFF1 and EFF2



Field level
Gear units and
garmotors



**Helical gear units
and helical gearmotors**

RX series (single-stage)
Output speeds
114 ... 1,829 1/min
Output torque
up to 830 Nm
Motor power range
0.12 ... 45 kW



**Helical gear units
and helical gearmotors**

R series (two and three stages, also in reduced backlash design)
Output speeds
0.05 ... 809 1/min
Output torque up to 18,000 Nm
Motor power range
0.09 ... 160 kW



**Parallel shaft helical gear
units and gearmotors**

F series (two and three stages, also in reduced backlash design)
Output speeds
0.1 ... 752 1/min
Output torque up to 18,000 Nm
Motor power range
0.12 ... 200 kW



MOVITRAC® 07

Frequency inverter with integrated operating panel, MOVITOOLS operating software

**MOVITRAC® LT**

Exceptionally compact frequency inverter with 14 preconfigured standard parameters

CT/CV Asynchronous Servomotors**Rated torque**

Speed-dependent
2.4 ... 200 Nm

Mass moment of inertia

Motor: 4.6 ... 2,340 kgcm²
Brake motor:
5.5 ... 2,475 kgcm²

Aseptic drives

Helical, parallel shaft, helical-bevel or helical-worm gearmotors in aseptic design: Smooth surface, without fan – pure convection cooling

Motor power:
0.25...1.5kW

Standard enclosure:
IP66

Optional:
Brake for 100 ... 500 V, encoder for inverter operation

Helical-bevel gear units and gearmotors

K series (three stages, also in reduced backlash design)

Output speeds

0.1 ... 522 1/min

Output torque up to 50,000 Nm

Motor power range

0.12 ... 200 kW

Helical-worm gear units and gearmotors**S series**

(two stages)

Output speeds

0.1 ... 397 1/min

Output torque up to 4,000 Nm

Motor power range

0.12 ... 22 kW

SPIROPLAN® gearmotors**SPIROPLAN® series**

(single-stage)

Output speeds

8 ... 329 1/min

Output torque up to 70 Nm

Motor power range

0.12 ... 1.1 kW

**Gearmotors for trolley drives**

Light load, two unit types

Max. torque

130 Nm

Perm. wheel loading

6,500 N

Velocity

2.7 ... 75 m/min

**Gearmotors for trolley drives**

Heavy load, seven unit types

Max. torque

820 Nm

Perm. wheel loading

40,000 N

Velocity

4.4 ... 175 m/min

**VARIBLOC®, wide V-belt variable speed gearmotors**

Max. motor power

0.75 ... 45 kW

Possible power flow

U & U+Z

Max. setting range

1:4 ... 1:8

VARIMOT®, friction disc variable speed gearmotors

Max. motor power

1.1 ... 11 kW

Max. setting range

1:4 + 1:5



Gear units and motors of this series are available in explosion-proof design meeting directive 94/9/EG.



How we're driving the world

With people who think fast and develop the future with you.

With a worldwide service network that is always close at hand.

With drives and controls that automatically improve your productivity.

With comprehensive knowledge in virtually every branch of industry today.

With uncompromising quality that reduces the cost and complexity of daily operations.



SEW-EURODRIVE
Driving the world

With a global presence that offers responsive and reliable solutions. Anywhere.

With innovative technology that solves tomorrow's problems today.

With online information and software updates, via the Internet, available around the clock.

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