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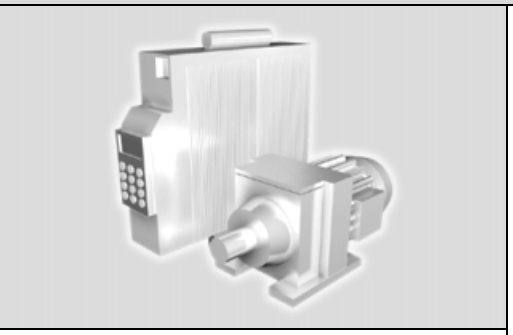
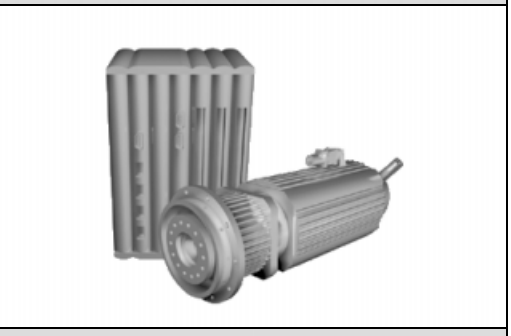
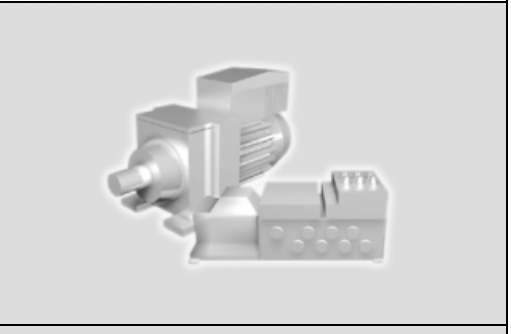
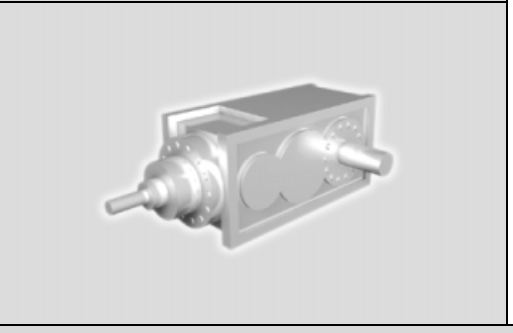
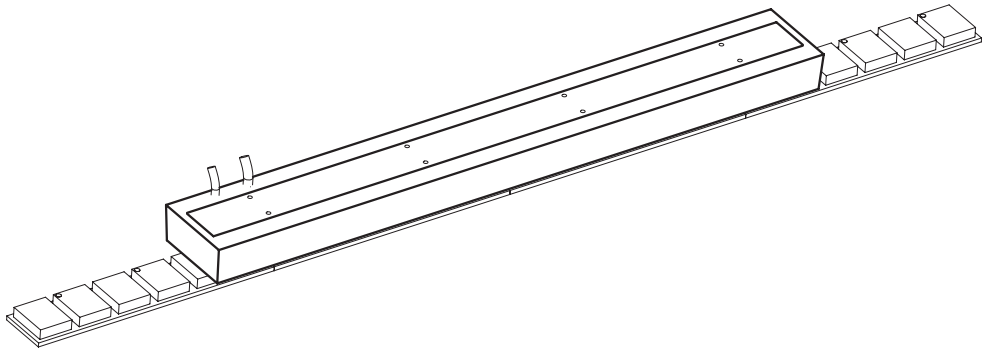






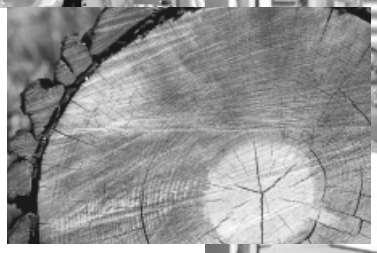




SLC Synchronous Linear Motors

Edition 05/2007
11575026 / EN

Operating Instructions



SEW
EURODRIVE

1 Important Information about the Operating Instructions

Integral part of the product

The operating instructions are an integral part of the SLC synchronous linear motors and contain important information about operation and service. The operating instructions are written for all assembly, installation, startup and service staff who are involved in the installation and maintenance of SLC synchronous linear motors.

Designated use

SLC series linear motors are motors for industrial and commercial systems. Motor utilization other than that specified and areas of application other than industrial and commercial systems can only be used after consultation with SEW-EURODRIVE.

Do not operate the unit until you have ensured that the machine complies with the Low Voltage Directive 73/23/EEC and that the conformity of the end product has been determined to comply with the Machinery Directive 98/37/EC.

Technical data and information about permissible conditions can be found on the nameplate and in the documentation.

All the specified information must be observed.

Operating environment

The following uses are prohibited unless the unit is expressly designed for the purpose or conditions specified:

- Use in potentially explosive areas.
- Use in areas exposed to harmful oils, acids, gases, vapors, dust, radiation. Please contact SEW-EURODRIVE if you have any questions on the environmental conditions.
- Use in non-stationary applications that are subject to mechanical vibration and impact loads in excess of the requirement of EN 50178.

Safety functions

SLC series linear motors may not perform any safety functions without higher-level safety systems.

Use higher-level safety systems to ensure protection of equipment and personnel.

Qualified personnel

SLC linear motors represent a potential hazard for persons and property. Consequently, assembly, installation, startup and service work may only be performed by trained staff who are aware of the potential hazards.

Staff must be appropriately qualified for the task in hand and be familiar with the assembly, installation, startup and operation of the product. Staff must read the operating instructions, in particular the safety notes section, carefully and ensure that they understand and comply with them.

Liability for defects

Incorrect handling or any action performed that is not specified in these operating instructions could impair the properties of the product. In this case, you lose any right to claim under warranty against SEW-EURODRIVE GmbH & Co KG.

Product names and trademarks

The brands and product names contained in these operating instructions are trademarks or registered trademarks of the titleholders.

Disassembly and disposal

- Local regulations apply concerning recycling the operator terminal or parts of it.
- Note that the following components contain substances that may represent a health hazard and cause environmental pollution: Lithium battery, electrolyte condensers and display.

1.1 Explanation of symbols

The operating instructions contain important information that deals with general and operational safety. This information is emphasized in particular with the following symbols.

Hazard

Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.

Warning

Indicates a potentially hazardous situation which, if not avoided, could result in minor injuries. You will also find this symbol to indicate a potential risk of damage to property.

Caution

Indicates a potentially hazardous situation which, if not avoided, may result in damage to products or the surrounding area.

Note

Indicates a reference to applications, for example for installation, and other useful information.

Documentation reference

SEW-EURODRIVE GmbH & Co KG makes a reference to existing documentation, such as operating instructions, catalog or data sheet.

As a prerequisite for fault-free operation and fulfillment of warranty claims, you must adhere to the information in the operating instructions. You must therefore read the operating instructions before you start operating the drive.

The operating instructions contain important information about servicing and should therefore be kept close to the unit.

2 Safety Notes

Preliminary information

Due to the strong permanent magnets installed in the secondaries of the SLC linear motors, the following safety regulations must be observed.

Work must not be carried out by persons with cardiac pacemakers.

The strong magnetic fields and the associated high ferromagnetic attraction forces can be directly harmful to your health, for example for persons with cardiac pacemakers, or indirectly as a result of fast motor movements and high thrust forces.

Based on current medical knowledge, magnetic fields with a flux density of < 5 mT have no effect on the human body.

Hazard caused by magnetic field

Even at a distance of 100 mm (3.9 in), the magnetic flux density of the secondaries present is < 2 mT (at 150 mm (5.9 in) < 1 mT) . Since the magnetic flux density in SLC linear motors is generated exclusively by the magnetic fields of the secondaries, this value is independent from the operating status of the linear motor.

Special caution needs to be the rule in close proximity (distances < 100 mm (3.9 in)) to the secondaries due to the high attraction forces. Magnetic forces are often underestimated since they are not visible.

Magnetic attraction forces often arise abruptly in the immediate proximity range and can grow in excess of several 100 kg (220 lb) for medium-sized objects.

Also consider the supplementary safety notes in the individual sections of these operating instructions.

General

Burns hazard

Touching the linear motors when they have not cooled down could result in burns. SLC linear motors can have a surface temperature of over 100 °C (212 °F).

To prevent burns:

- Never touch the SLC linear motor during operation or in the cool down phase once it has been switched off.

All work related to transport, storage, setting up/mounting, connection, startup, maintenance and repair is to be carried out by trained staff only. Note the following important points.

- Pay attention to the danger and safety signs on the SLC linear motor.
- Do not lead any metallic objects that are heavy (> 1 kg (2.2 lb)) or have a wide surface (> 1 dm² (15.5 sq. in)) to the secondary with unprotected hands to the secondary.
- Have at least two pointed wedges made of firm, non-magnetic material – e.g. brass or stainless steel (edge angle approx. 10° - 15°) and a hammer ready to separate the adhering magnetic parts. If necessary, e.g. if mounting space is limited, customized installation appliances should be used to facilitate and safeguard work. To free parts of the body that have been trapped, separate adhering parts by driving the prepared pointed wedges (made of stable, non-magnetic material) into the separation gap.
- Keep watches and magnetizable data carriers (such as credit cards, disks, etc.) away from close proximity (< 100 mm (3.9 in)) of the SLC synchronous linear motors.
- Note the system-specific guidelines and requirements.
- Note the national/regional regulations governing safety and the prevention of accidents.

Serious injuries and property damage may result from:

- Non-designated use
- Incorrect installation or operation
- Unauthorized removal of necessary protection covers or housing

Transportation/ storage

Immediately upon receipt, inspect the shipment for any damage that may have occurred during transportation. Inform the shipping company immediately. It may be necessary to preclude startup.

Use suitable means of transport with adequate space if necessary. Remove securing devices used for transportation prior to startup.

Follow the instructions in the "Notes on transportation" section.

- Mark the storage locations of secondaries ("Caution! Strong magnetic fields", symbols).
- Never store secondaries unpacked; use non-magnetic packaging material with a thickness of at least 2 cm (0.79 in) on the magnetic side.
- Observe the warning instructions on the packaging.
- Keep storage area dry.
- Protect storage sites from heat.
- For transportation of machines or components with primaries or secondaries already installed on travel axle/axles: Lock the axle/axles to prevent accidental movement (due to missing self-locking mechanism).

Follow the instructions in the "Transportation and storage" section.

Installation / assembly

Hazard caused by magnetic field

- Never place secondaries on metal.
- Never place a primary directly on a secondary.
- Hold the tools firmly (with both hands). Slowly guide the tools to the secondary.
- Wear work gloves during installation.
- Do not remove the packaging of the secondary until directly before it is installed.
- Carry out installation work in pairs only.
- Cover already installed secondaries with at least 2 cm (0.79 in) of non-magnetic material (e.g. wood) during installation.
- Use customized installation appliances to facilitate and safeguard work, if necessary (e.g. if mounting space is limited).
- Make sure that the primary is grounded according to regulations with the PE grounding bar in the control cabinet as a reference potential.

Please attach the enclosed warning sign in a prominent position or in the vicinity of the secondaries installed.

Follow the instructions in the "Mechanical Installation" section.

Startup

- Never work in the travel range when the machine is switched on.
- Ensure free axle travel.
- Check the final positions.
- Check the linear measuring system prior to turning on the machine.
- Limit the maximum power in the servo controller.
- Set the velocity limits in the servo controller to small values.

Follow the instructions in the "Startup" section.

Operation and inspection/ maintenance

Danger of electric shock

Induced voltages of up to 500 V can be generated by movement of the primary (generator principle) even if the motor is not connected.

Only remove the protection cap on the power plug of the primary immediately before connecting the power plug to the power supply.

To prevent electric shocks:

- **After separating the servo controller from the supply voltage, wait for at least five minutes before you touch any live parts (e.g. contacts, thread bolts) or loosen connections. Measure the voltage on the DC link and wait until the voltage has dropped below 40 V.**
- Keep motor area free from chips.
- Listen out for and note any noises.
- The motors may have a surface temperature of 100 °C (212 °F) during operation. Wait until the motor has cooled down to 40 °C (104 °F) before touching it.
- Power connections can conduct voltages even if the motor is not turning. Never disconnect electrical connections of motors while they are energized.
- Wear work gloves when carrying out maintenance and repair work.
- Ensure safe disconnection from the voltage supply before working on the machine.
- Never work in the travel range when the machine is switched on.
- Remove any chips from the motor area on a regular basis.

Follow the instructions in the "Startup" and "Maintenance" sections.

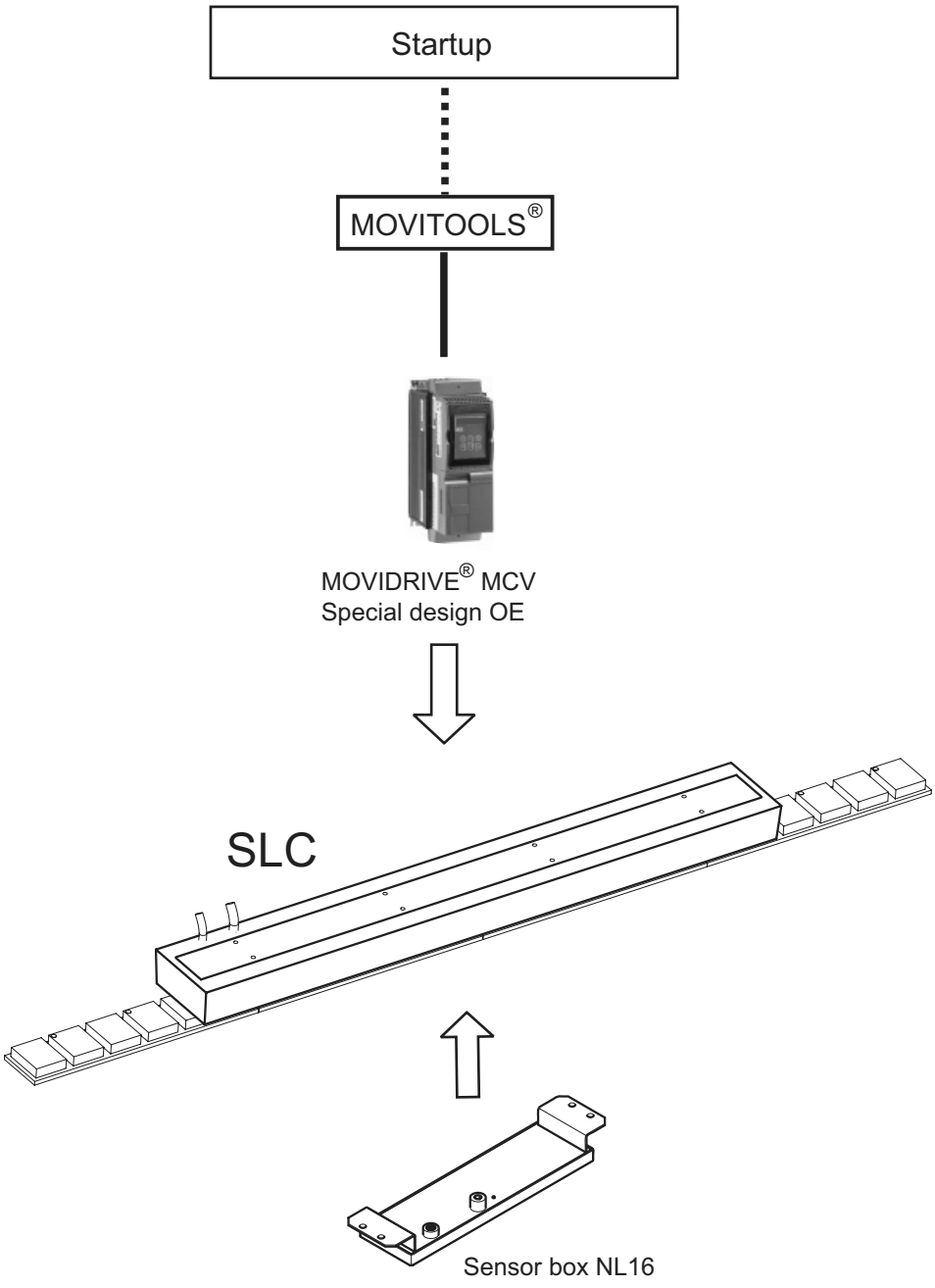
Actions and immediate measures in case of ACCIDENTS

- If the machine is connected to the power supply system, press the EMERGENCY OFF button immediately.
- Request first aid immediately.
- You need the tools mentioned previously to free body parts jammed in between two secondaries or a secondary and a ferromagnetic component (e.g. steel plate, steel carrier, machine bed, tool). Separate the components at the separation gap using the pointed wedge.

The magnetic forces are always present regardless of the operating status of the system.

3 Product Description and Overview of Types

3.1 System environment



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3.2 Type code

The following example shows the type code structure.

Primary

SLC - P 050 M – 030 – H – B – KVZ1 – 490 0E

Standard / Special design
0E = 3.5 m (11.5 ft) cable extension

Winding voltage
DC link voltage 490 V

Cable extension (SLC-Basic)
For more information on the position and length, see the following page (combination overview 1)

Motor design
B = Basic

H = Temperature switch TH

030 = 3 m/s (9.8 ft/s)

Length of primary

Active width of the primary:
50 mm (1.97 in)

Primary

Synchronous linear motor

The standard design appears in bold.

Secondary

SLC – S 050 – 200 – 0E

- 0E – Galvanized bore holes
- Length of secondary
  200 mm (7.8 in), 250 mm (9.8 in), 300 mm (11.8 in) and 400 mm (15.8 in)
- Active magnet width of the secondary
  50 mm (1.97 in)
- Secondary
- Synchronous linear motor

Sensor box

In combination with MOVIDRIVE® MCV special design 0E:

N L 1 6

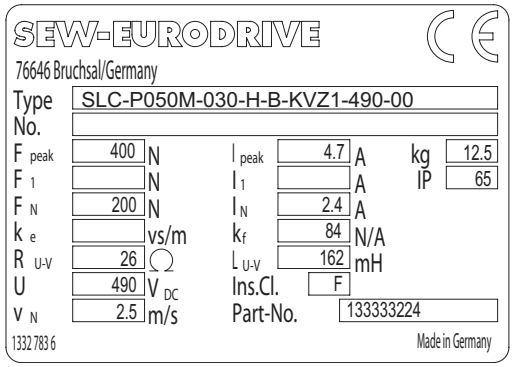
- 6 polar width pulses
- Version
- Linear measuring system
- Proximity sensor

The standard design appears in bold.

3.3 Nameplate

A label is attached to the primary to show the following technical data:

Nameplate SLC



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Type	=	Type code
No.	=	Customer order number
F_{PeaK}	=	Peak force
F_1	=	Maximum force available up to v_1
F_N	=	Permanent force
k_e	=	Voltage constant
R_{U-V}	=	Winding resistance
U	=	Voltage
V_N	=	Velocity up to which the rated force is available
I_{PEAK}	=	Maximum current
I_1	=	Current at F_1
I_N	=	Rated current
k_f	=	Force factor
L_{U-V}	=	Inductance
Ins.Cl.	=	Insulating material class
Part no.	=	Part number
kg	=	Mass
IP	=	Enclosure

3.4 Scope of delivery for system components

The scope of delivery for SLC linear motors comprises:

- Primaries
- Secondaries with permanent magnets
- Control and regulation systems such as MOVIDRIVE®
- Linear measuring system

Not included in the scope of delivery:

- Linear guide systems
- Linear measuring systems NL16
- Cable carriers
- Brake systems
- Buffers / shock absorbers

4 Storage

You must strictly observe the safety instructions in the previous sections.

4.1 Corrosion protection and storage conditions

The motor parts are protected against corrosion for five years in closed original packaging.

Observe the following storage conditions for the linear motors:

- Store the linear motors inside
- Keep storage area clean and dry
- Maintain a storage temperature between -5 °C (23 °F) and +70 °C (158 °F)
- Relative humidity not to exceed 95 %
- Original packaging must be free from damages

When storing unpacked secondaries, display the following warning labels at the storage location:

- Warning

- Magnetic

4.2 Coating

Primary The primaries are treated with an anti-corrosion coating OS1.

Secondary The mounting platform of the secondaries is electrogalvanized. The thickness of the coating is 20..25 µm (0.79 .. 0.98 mil).

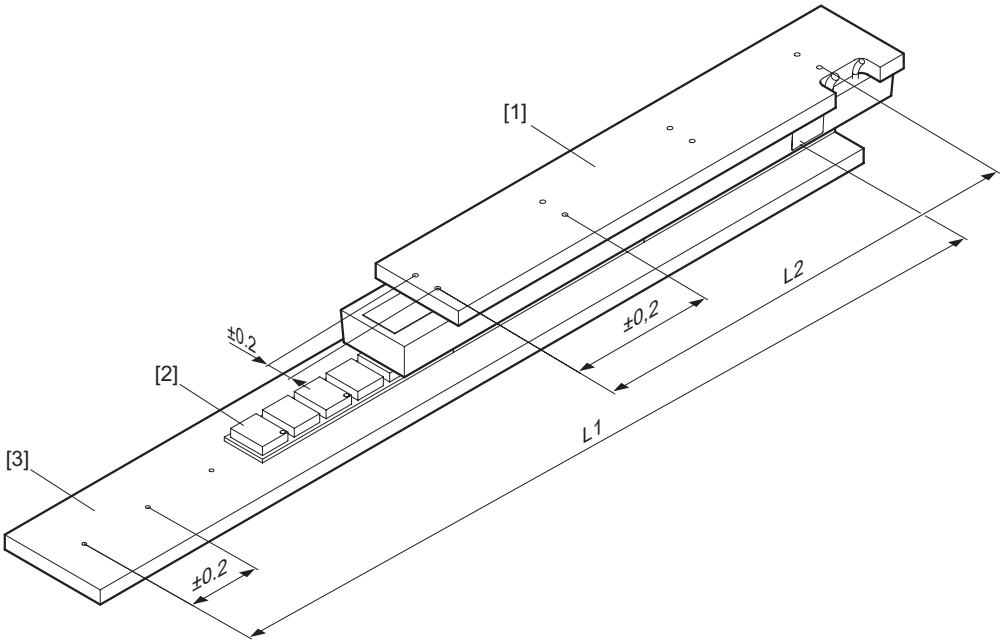
4.3 Return delivery to SEW-EURODRIVE

Cover the magnetic side of the secondaries with a wooden board/packaging material of thickness 1 cm (0.39 in) over the entire surface and connect.

5 Mechanical Installation

You must strictly observe the safety instructions in the previous sections.

5.1 Installation tolerances



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[1] Installation of primary

with reference to the largest primary, max. deflection length 0.3 mm (0.01 in) / width 0.1 mm (0.004 in)

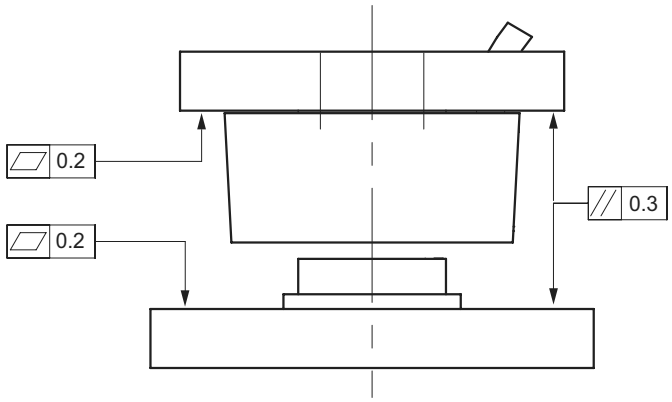
[2] Secondary

with reference to 400 mm (15.8 in) length, max. deflection 0.1 mm (0.004 in)

[3] Installation of secondary

[L1] ± 0.3 mm (0.01 in) with reference to the total length of the secondary

[L2] ± 0.2 mm (0.008 in) with reference to the total length of the primary



[1] Installation of primary (mounting plate)
[2] Installation of secondary (basic body, e. g machine base)

Shape and position tolerances in reference to 1000 mm (39.4 in) length

Adhering to shape and position tolerances is necessary for the functionality of the linear motor. These accuracies are sufficient for the functionality of the NL16 encoder system.

These shape and position tolerances will have to be observed in operating mode at steady-state temperature of the linear motor. You will also have to take into consideration the influence of the loads applied by the customer.

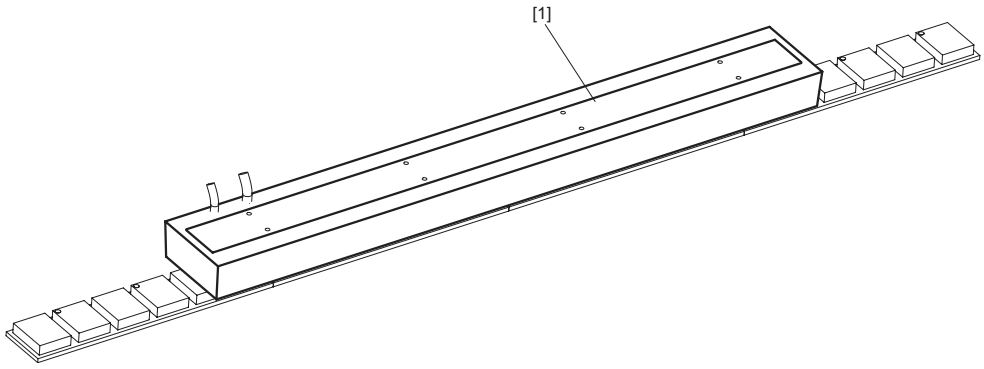
5.2 Installing the primary

Before you begin: Check that

- the information on the nameplate of the drive and/or the output voltage of the servo controller match the voltage supply system
- the drive is undamaged (no damage caused by transportation or storage)
- it is certain that the following requirements have been fulfilled:
  - ambient temperature between +5 °C (41 °F) and +40 °C (104 °F)[1)]
  - no oil, acid, gas, vapors, radiation, etc.
  - installation altitude max. 1000 m (3281 ft) above sea level[1)]

Start with the installation of the primary. Install the secondaries once all other installation work has been completed, immediately prior to startup of the drive. Observe the safety notes about handling the secondaries (see section 2).

Preparing the primary for installation



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Mounting surfaces [1]:

The mounting surfaces of the primary were treated with an anti-corrosion agent at the factory. Before installing the surface, wipe the surface with a lint free cloth to remove any dust, dirt, etc. clinging to the surface.

Retaining screws:

Use **all** M6 threaded holes in the mounting surface for retaining purposes. Use screws of size M6, strength class 8.8 or higher. The minimum depth of engagement is 6 mm. The tightening torque is always 6 Nm (53 in-lb) and may not be exceeded, even with screws of a higher strength class.

1) Observe the derating data in section 4.9 of the catalog.

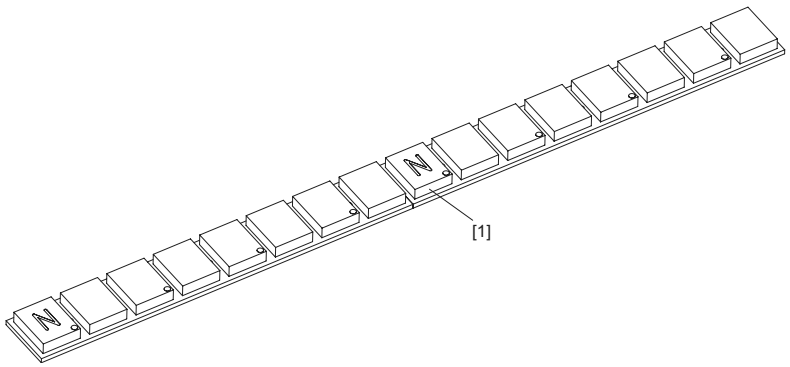
5.3 Installation of secondaries

Preparing the secondaries for installation

Caution: Do not unpack parts until you are ready for installation.

Installation of secondaries

Install the first part at one end of the travel section and work your way down in one direction. The orientation of the first part can be random. The adjoining part will have the same orientation. The north [1] pole is marked on the secondaries (→ see figure below). You can combine secondaries of different lengths.



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[1] North pole

Move primary over secondaries by hand prior to startup of drive to check for unhindered operation.

Use non-magnetic testing devices, such as feeler gauges made of stainless steel, aluminum, brass or copper sheets if you are planning to check the visible air gap.

Induced voltages of up to 500 V can be generated by movement of the primary (generator principle) even if the motor is not connected.

Only remove the protection cap on the power plug of the primary immediately before connecting the power plug to the power supply.

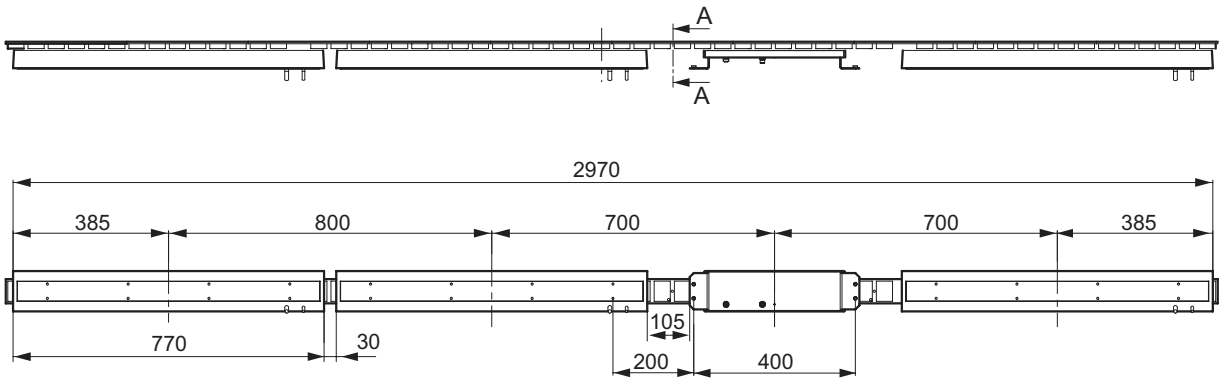
5.4 Installation of the NL16 measuring system

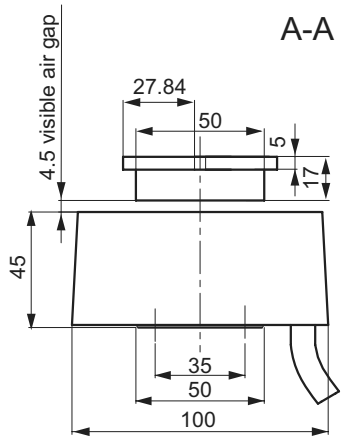
The NL16 measuring system is screwed to a carrier plate with 4 screws. When designing the motor it was ensured that the SLC-P050M-030, for example, has the same height as the NL16 so that both can be directly mounted on the same carrier plate.

For the motor to be commutated and energized in the correct phases, the measuring system must be mounted according to the distances and orientation displayed in the figure.

Observe the following tolerances when installing:

- Nominal clearance: 4.5 mm (0.18 in)
- Misalignment at the sides at right angles to the direction of travel: Center +/- 0.5 mm (0.02 in)
- Distance form center of NL16 to center of SLC-P: 700 mm (27.56 in) + (1....n x 100 mm (3.94 in)) +/- 1 mm (0.04 in)





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6 Electrical installation

You must strictly observe the safety instructions in the previous sections.

Observe the wiring instructions issued by the manufacturer of the servo controller in case motors are powered by inverters. It is essential to observe the operating instructions for the servo controller.

A bag containing the following information is attached to the motor:

- Safety Notes

You must comply with this information.

6.1 Electrical connection

The current carrying capacity only applies to a standard cable length of 1 m (3.28 ft).

Project planning for cable cross-section of the power cable

Cable dimensioning in accordance with EN 60402

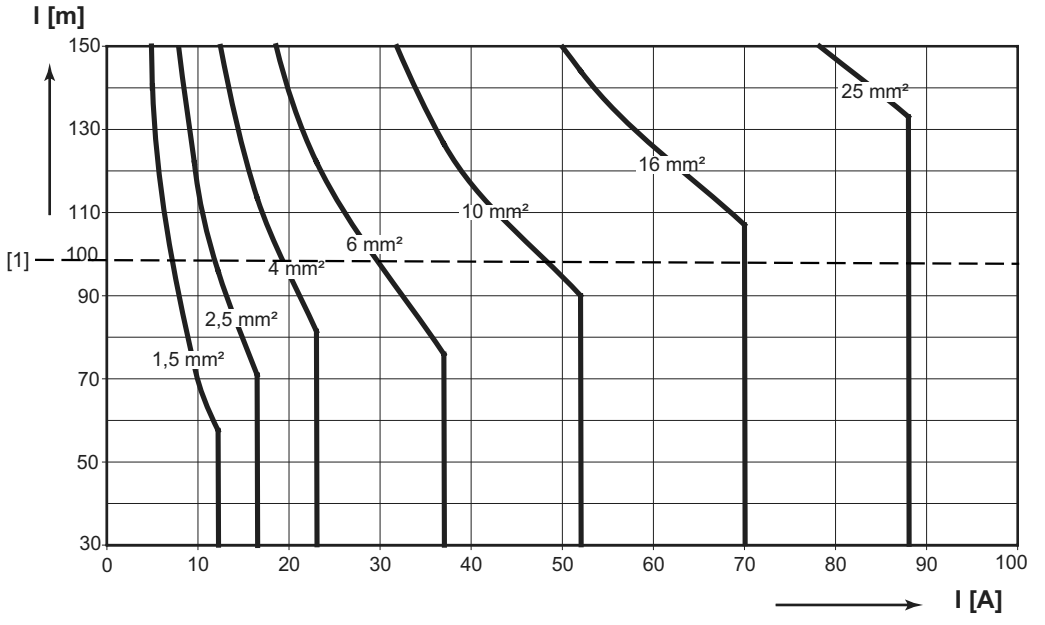


Fig. 1: Minimum required cable cross-section depending on cable length l [m] and current I [A]

[1] Max. permitted cable length according to SEW specification = 100 m (328 ft)

The diagram (see above) is used as the basis for cable assignment (see following pages).

Hybrid cables with cross-sections of 1.5 mm^2 to 10 mm^2 can be ordered from SEW-EURODRIVE.

Cable load through current I in [A] according to EN 60204-1 table 5, ambient temperature 40 °C (104 °F)

Cable cross-section [mm²]	Three-core sheathed cable in pipe or cable [A]	Three-core sheathed cable on top of one another on wall [A]	Three-core sheathed cable next to one another [A]
1.5	12,2	15.2	16.1
2.5	16.5	21.0	22
4	23	28.0	30
6	29	36.0	37
10	40	50.0	52
16	53	66.0	70
25	67	84.0	88
35	83	104.0	114

These are only recommended values and **are no substitute for the detailed project planning** of the cables depending on the actual application usage under observance of the applicable regulations.

Safety notes

EMC measures

The designated use of SEW-EURODRIVE synchronous linear motors is as components for installation in machinery and systems. The designer of the machine or system is responsible for complying with the EMC directive 89/336/EEC. For more detailed information on this subject, refer to the SEW publications:

"Drive Engineering – Practical Implementation, Volume 7, Project Planning for Drives" and in "Drive Engineering – Practical Implementation, Volume 9, EMC in Drive Engineering".

Encoder connection

Observe the following instructions when connecting an encoder:

- Use a shielded cable with twisted pair conductors only.
- Connect the shield to the PE potential on both ends over a large surface area.
- Install signal cables separately from power cables or brake cables (min. distance 200 mm [7.87 in]).

6.2 Pre-fabricated cables

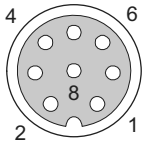
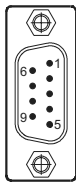
The cables also have low capacitive characteristics for operation on the inverter.

NL16 feedback cable

SEW-EURODRIVE does not offer a feedback cable for the linear measuring system. The cable must be pre-fabricated by the operator with an M12 actuator/sensor cable and a 15-pin SUB-D connector.

Cable for NL16 encoder

Cable pin assignment for feedback cables

Encoder end				MOVIDRIVE® MCV connection	
Plug connector	**Contact no.**	**Description**	**Description**	**Contact no.**	**Plug connector**
ASTA021FR **198 921 9** **12-pin with socket contacts** 	1	A	A	1	**Sub-D 9-pin** **MCV X15** 
	2	B	B	2	
	3	C	C	3	
	4	GND	GND	5	
	5	/A	/A	6	
	6	/B	/B	7	
	7	/C	/C	8	
	8	24 V	24 V	9	
		Unassigned	Unassigned	4	

7 Startup

7.1 Prerequisites for startup

You must strictly observe the safety instructions in the previous sections.

Before startup, make sure that

- The primary moves along the entire travel distance easily, without collisions and free from mechanical contact between the primary and secondary
- All connections have been made properly
- All protection devices have been installed correctly
- All motor protection devices are active
- The brake works correctly in hoists
- You have a MOVIDRIVE® MCV with the -0E special design
- There are no other sources of danger present
- The MOVITOOLS® startup software is installed on your PC

7.2 Startup procedure

Parameter setting

1. Make sure that the -0E special design servo controller is in controller inhibit mode or 24V operation mode.

2. Using the factory setting, perform a startup for a CM servomotor, for which the continuous static current corresponds to the sum of the rated currents of all SLC motors used in parallel on Movidrive. The following must also be set for startup:
   - Temperature sensor is not connected (the TH sensor must be evaluated separately in a PLC)
   - Torque control operating mode
   - Current limitation P303 to the total maximum current of all SLC motors
   - Stiffness, controller parameters and ramp times are not in effect in torque control operating mode

3. Terminate motor startup with download.

4. Set the current controller index 8663 according to the formula
   Index 8663 = L[mH] x rated unit current x MDX factor, where

   MDX factor = 0.02 for MDX = size 0
   = 0.016 for MDX > size 0

5. Set the scale of the actual speed value (optional) to:
   P850 = 1, P851 = 200, P852 = m/s. (1 m/s = 200 rpm)
   The setting does not have any effect on the functionality.

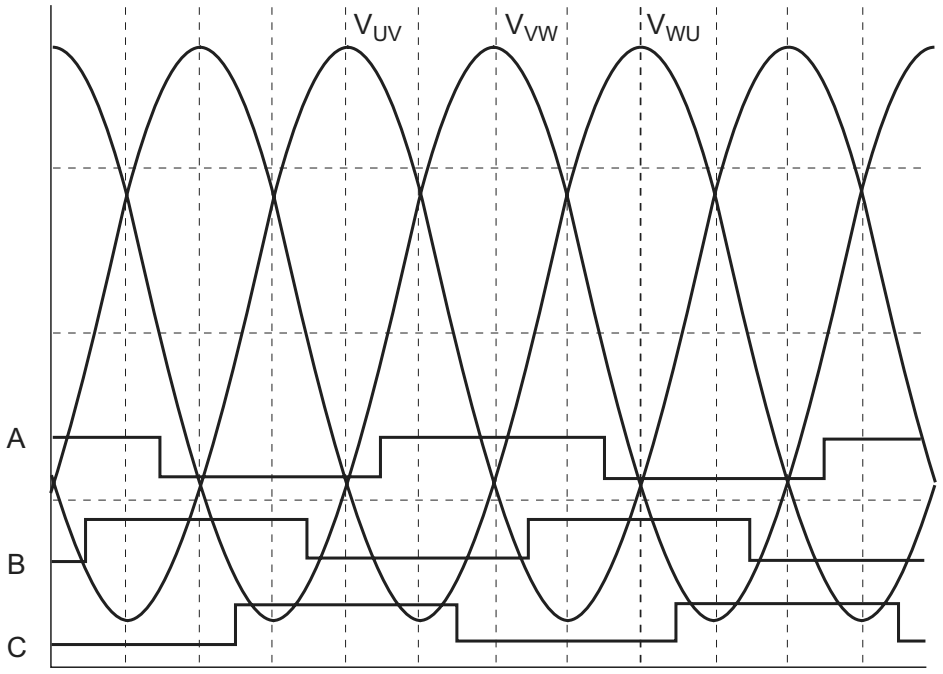
Check the encoder evaluation

Manually move the primary in one direction and observe parameter P003 (actual position) in the MOVITOOLS shell. Determine the positive direction of movement. Check that you measure 6 increments for a travel distance of 100 mm (3.94 in).

Axle movement

Check the limit switch is functioning correctly for axles with end limits. Move the axle with reduced torque setpoint.

If the axles do not move in a positive direction in a controlled manner when torque is in a positive direction of rotation, check that the correct motor phases have been assigned to the encoder signals. In extreme cases, you can push the motor in the positive direction and, using the oscilloscope, record the line voltage between U and V and the C track signal. The relationship between the two is shown in the following figure. The zero passage in the positive direction of the line voltage U-V must coincide with the rising edge of the C track. (Note: The motor does not perform any commutation travel.)



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8 Malfunctions

You must strictly observe the safety instructions in the previous sections.

The servo controller reports malfunctions depending on type via diagnostic LEDs or a 7-segment display and a fault code. Consult the system manual or the operating instructions for the respective MOVIDRIVE® for troubleshooting.

9 Inspection and Maintenance

You must strictly observe the safety instructions in the previous sections.

- Use only genuine spare parts in accordance with the applicable spare parts list.
- Motors can become very hot during operation - danger of burns!
- Disconnect the linear motor from the power supply before starting work and protect it against unintentional re-start.

9.1 General maintenance work

The primaries and secondaries are maintenance-free and cannot be repaired. Replace defective parts.

Remove any traces of dirt, chips, dust, etc. from the secondaries with a soft cloth.

Note that mobile cables are subject to wear. They have to be checked for external changes on a regular basis.

10 Technical Data

10.1 Motor data

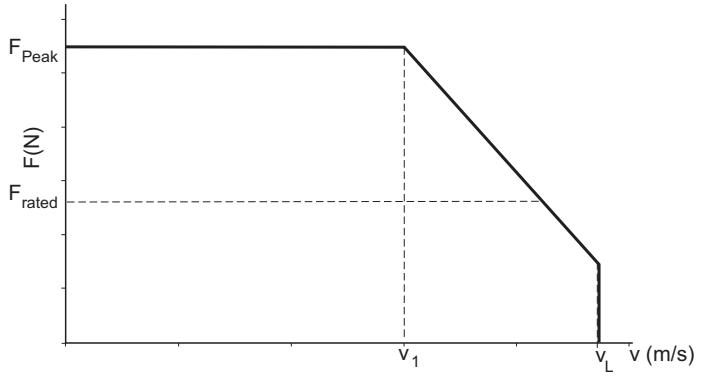


Fig. 2: Characteristics curve

[1] = Dynamic limit forces
[2] = Thermal limit forces
F_{rated} = Permanent force
when mounting to a horizontal aluminum cooling surface with
- **four times primary flange surface**
- **10 mm (0.39 in) thickness**
- **an ambient temperature of up to 40 °C (104 °F)**
- **an installation altitude of up to 1000 m (3280 ft)**

F_{Peak} = Maximum force
v_L = Theoretical maximum traveling velocity
v_1 = Velocity up to which the force F_1 is available
I_{rated} = Rated current
I_{Peak} = Maximum current
F_D = Force through magnetic attraction for 4.5 mm (0.18 in) nominal clearance

Motor type[1)]	Force			Speed		Current		Cable cross-section	Phase inductance	Resistance
	F_{Peak} [N] ([lbf])	F_{rated} [N] ([lbf])	F_D [N] ([lbf])	v_1 [m/s] ([ft/s])	v_L [m/s] ([ft/s])	I_{Peak} [A]	I_{rated} [A]	[mm (in)]	[mH]	[Ω]
SLC-050M	400 (89.92)	200 (44.96)	480 (107.91)	2.5 (8.20)	5.0 (16.40)	4.7	2.35	3 x 1.5 (3 x 0.06)	162	26

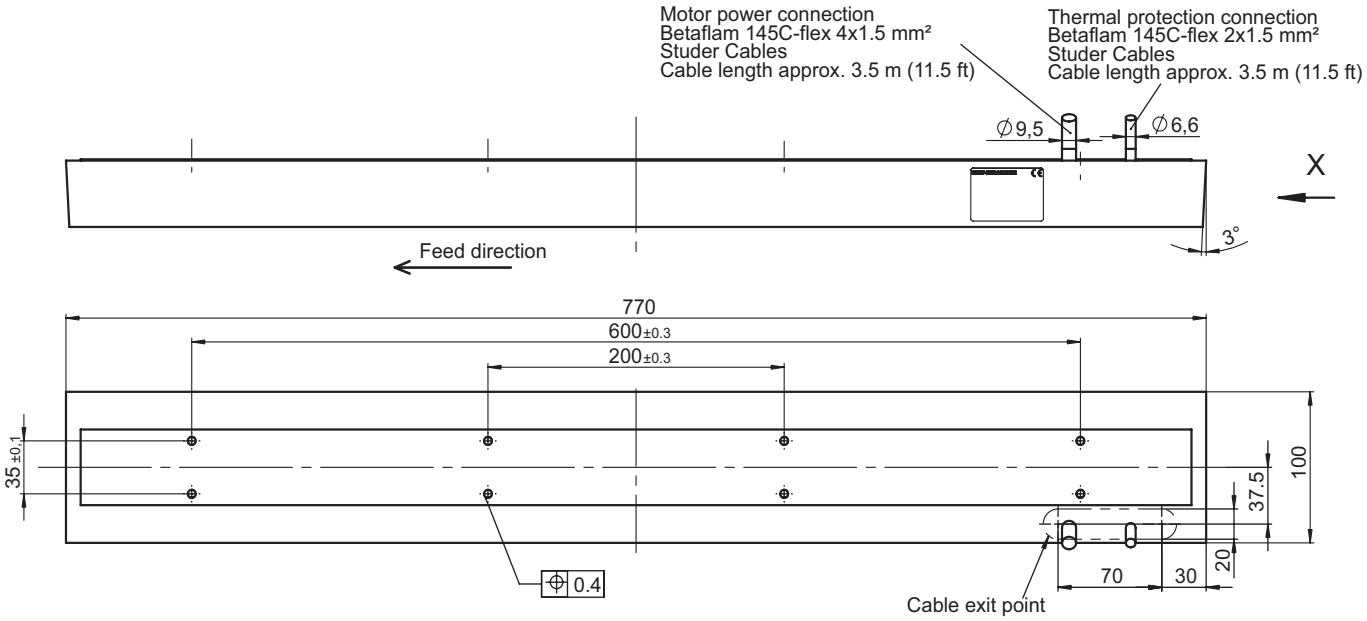
1) All data provided are string values (semi-conductor values)

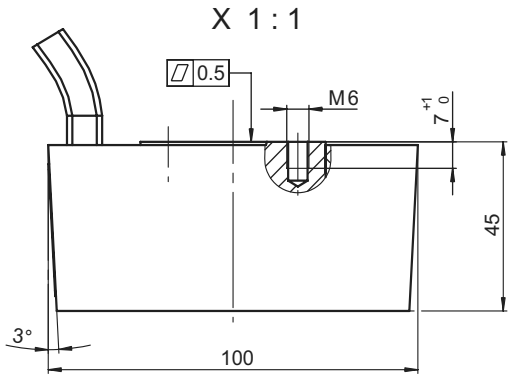
Electrical values refer to sine-shaped commutation and are indicated as effective values or refer to them.

For inverter assignment, see section 10.4.

10.2 Mounting dimensions

Primary





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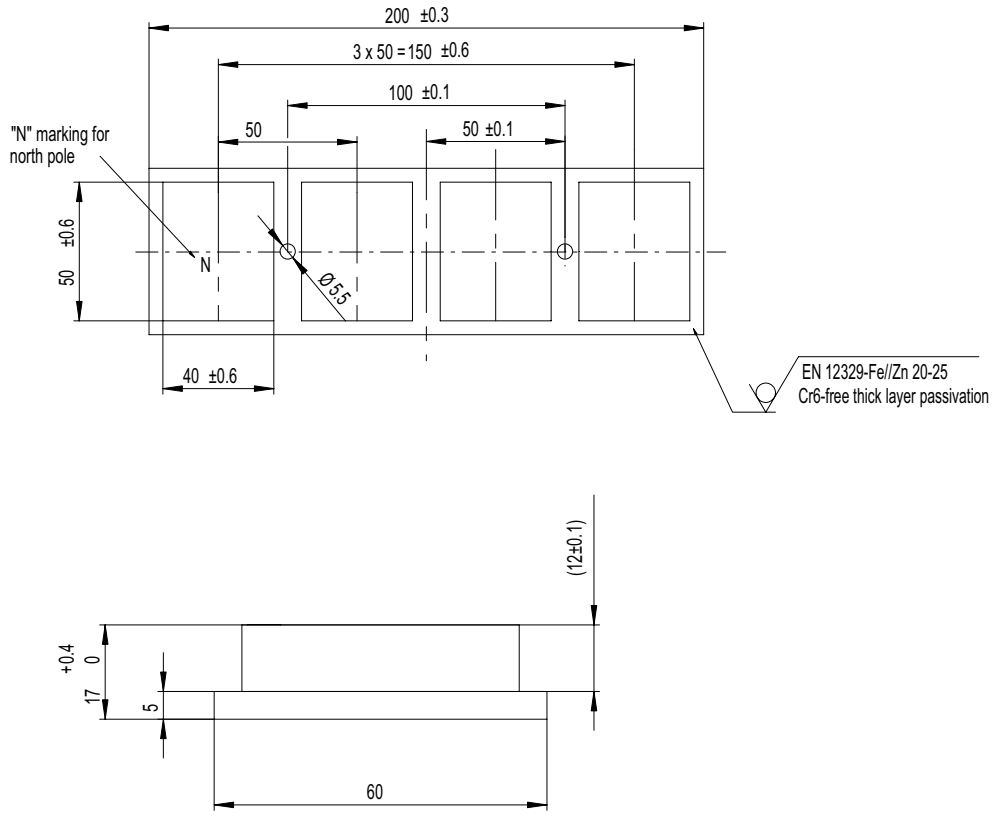
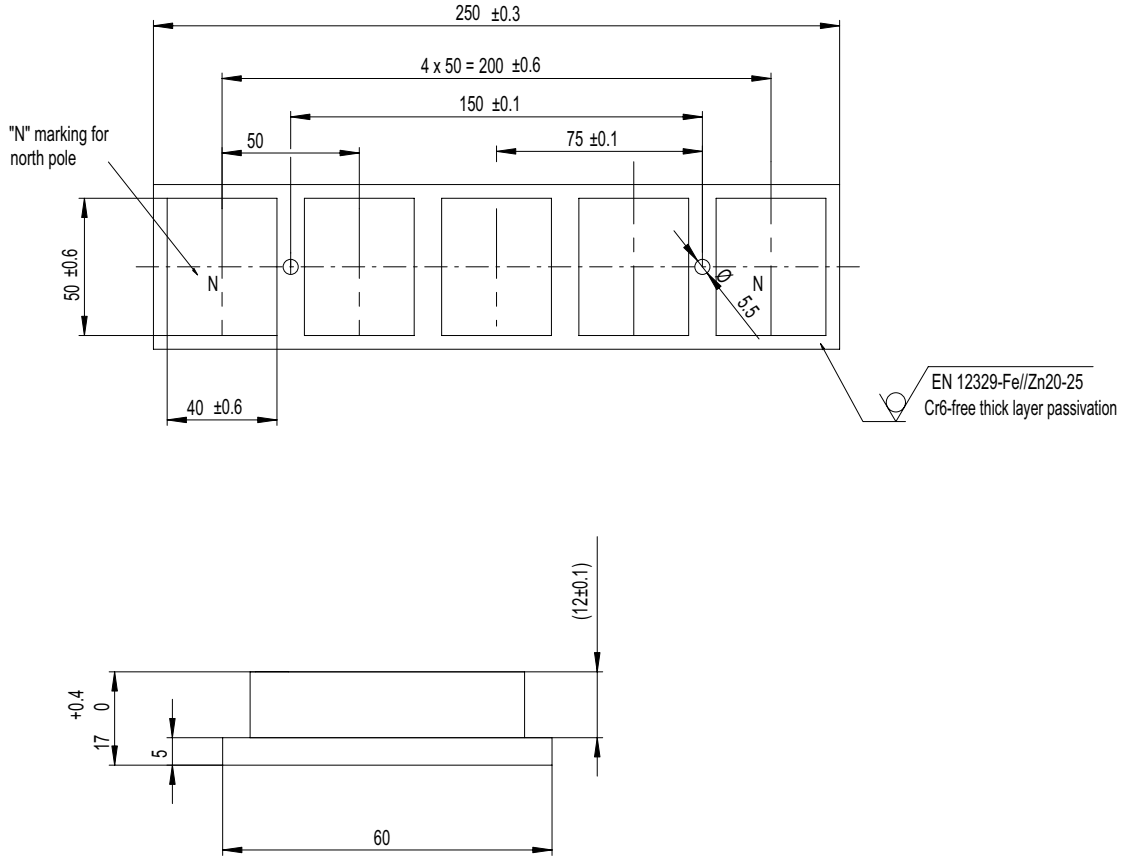
Length of the secondary 200



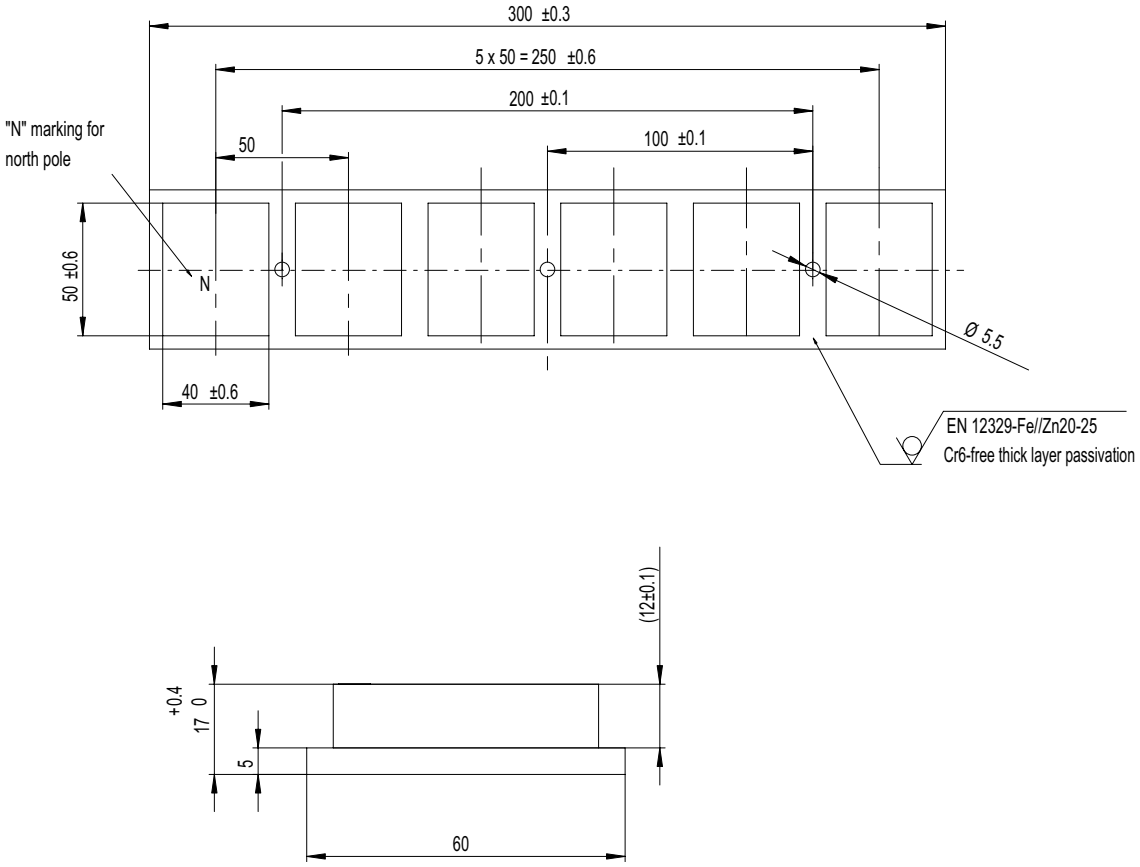
62013AEN

Length of the secondary 250



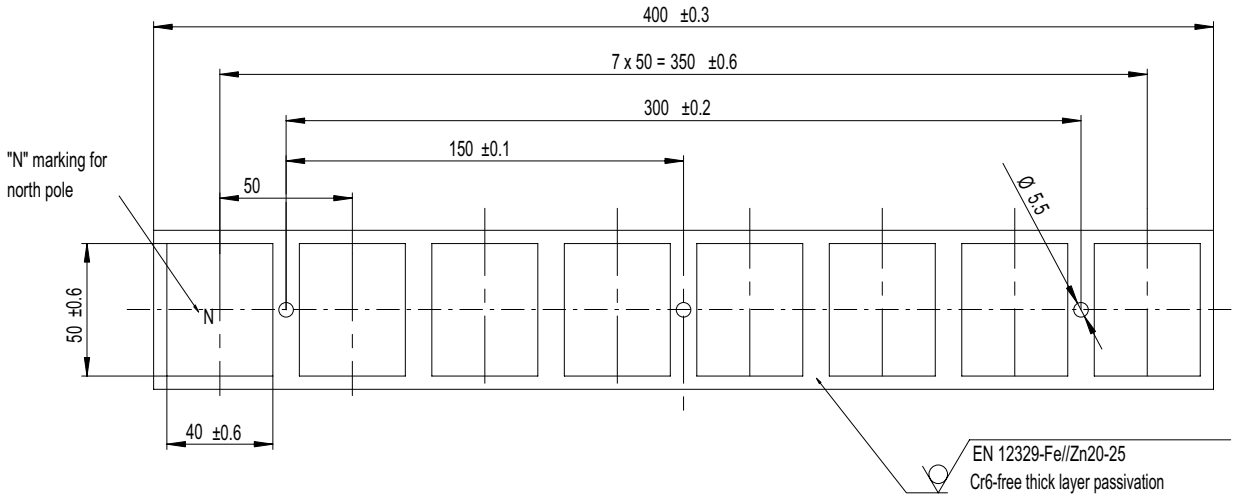
62012AEN

Length of the secondary 300



62009AEN

Length of the secondary 400



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10.3 MOVIDRIVE® compact part numbers

The linear motors can be operated with

- MOVIDRIVE® 5A3-4-0E in combination with NL16.

MOVIDRIVE®*compact* part numbers: 08295107

***MOVIDRIVE®* *compact* unit designation**

MCV A 0055 - 5 A 3 - 4 0E

Version		
Quadrants	4 = 4Q (with brake chopper)	
Connection type	3 = 3-phase	
Radio interference suppression on the line side	B = Radio interference suppression B A = Radio interference suppression A 0 = No radio interference suppression	
Connection voltage	5 = 380 ... 500 V_{AC} 2 = 200 ... 230 V_{AC}	
Recommended motor power	0055 = 5.5 kW (7.38 hp)	
Version B		
Series	40 = no options can be installed	

You will find additional information in the MOVIDRIVE® *compact* system manual.

10.4 NL16 measuring system technical data

General data	
Absolute accuracy	1 mm (0.039370079 in)
Mass	0.9 kg (1.98 lb)
Ambient temperature	0 °C … 50 °C (32 °F … 122 °C)
Storage temperature	–25 °C … 75 °C (-13 °F …167 °F)

Address List

Germany			
Headquarters **Production** **Sales**	**Bruchsal**	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal P.O. Box Postfach 3023 • D-76642 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
Service **Competence Center**	**Central** Gear units / Motors	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 sc-mitte-gm@sew-eurodrive.de
	Central Electronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 sc-mitte-e@sew-eurodrive.de
	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 40-42 D-30823 Garbsen (near Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 sc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 D-08393 Meerane (near Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 sc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 D-85551 Kirchheim (near München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 sc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 D-40764 Langenfeld (near Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 sc-west@sew-eurodrive.de
	Drive Service Hotline / 24 Hour Service		+49 180 5 SEWHELP +49 180 5 7394357
	Additional addresses for service in Germany provided on request!		

France			
Production **Sales** **Service**	**Haguenau**	SEW-USOCOME 48-54, route de Soufflenheim B. P. 20185 F-67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocome.com sew@usocome.com
Assembly **Sales** **Service**	**Bordeaux**	SEW-USOCOME Parc d'activités de Magellan 62, avenue de Magellan - B. P. 182 F-33607 Pessac Cedex	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09
	Lyon	SEW-USOCOME Parc d'Affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 00 Fax +33 4 72 15 37 15
	Paris	SEW-USOCOME Zone industrielle 2, rue Denis Papin F-77390 Verneuil l'Etang	Tel. +33 1 64 42 40 80 Fax +33 1 64 42 40 88
	Additional addresses for service in France provided on request!		

Algeria			
Sales	**Alger**	Réducom 16, rue des Frères Zaghnoun Bellevue El-Harrach 16200 Alger	Tel. +213 21 8222-84 Fax +213 21 8222-84

Argentina			
Assembly **Sales** **Service**	**Buenos Aires**	SEW EURODRIVE ARGENTINA S.A. Centro Industrial Garin, Lote 35 Ruta Panamericana Km 37,5 1619 Garin	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 sewar@sew-eurodrive.com.ar

Australia			
Assembly **Sales** **Service**	**Melbourne**	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au
	Townsville	SEW-EURODRIVE PTY. LTD. 12 Leyland Street Garbutt, QLD 4814	Tel. +61 7 4779 4333 Fax +61 7 4779 5333 enquires@sew-eurodrive.com.au

Austria			
Assembly **Sales** **Service**	**Wien**	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Strasse 24 A-1230 Wien	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://sew-eurodrive.at sew@sew-eurodrive.at

Belgium			
Assembly **Sales** **Service**	**Brüssel**	SEW Caron-Vector S.A. Avenue Eiffel 5 B-1300 Wavre	Tel. +32 10 231-311 Fax +32 10 231-336 http://www.caron-vector.be info@caron-vector.be

Brazil			
Production **Sales** **Service**	**Sao Paulo**	SEW-EURODRIVE Brasil Ltda. Avenida Amâncio Gaiolli, 50 Caixa Postal: 201-07111-970 Guarulhos/SP - Cep.: 07251-250	Tel. +55 11 6489-9133 Fax +55 11 6480-3328 http://www.sew.com.br sew@sew.com.br
	Additional addresses for service in Brazil provided on request!		

Bulgaria			
Sales	**Sofia**	BEVER-DRIVE GmbH Bogdanovetz Str.1 BG-1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@fastbg.net

Cameroon			
Sales	**Douala**	Electro-Services Rue Drouot Akwa B.P. 2024 Douala	Tel. +237 4322-99 Fax +237 4277-03

Canada			
Assembly **Sales** **Service**	**Toronto**	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, Ontario L6T3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.reynolds@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. 7188 Honeyman Street Delta. B.C. V4G 1 E2	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger Street LaSalle, Quebec H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 a.peluso@sew-eurodrive.ca
	Additional addresses for service in Canada provided on request!		

Chile			
Assembly **Sales** **Service**	**Santiago de Chile**	SEW-EURODRIVE CHILE LTDA. Las Encinas 1295 Parque Industrial Valle Grande LAMPA RCH-Santiago de Chile P.O. Box Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 75770-00 Fax +56 2 75770-01 www.sew-eurodrive.cl ventas@sew-eurodrive.cl

China			
Production **Assembly** **Sales** **Service**	**Tianjin**	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 46, 7th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25322611 gm-tianjin@sew-eurodrive.cn http://www.sew-eurodrive.com.cn
Assembly **Sales** **Service**	**Suzhou**	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021 P. R. China	Tel. +86 512 62581781 Fax +86 512 62581783 suzhou@sew.com.cn
	Additional addresses for service in China provided on request!		

Colombia			
Assembly **Sales** **Service**	**Bogotá**	SEW-EURODRIVE COLOMBIA LTDA. Calle 22 No. 132-60 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sewcol@sew-eurodrive.com.co

Croatia			
Sales **Service**	**Zagreb**	KOMPEKS d. o. o. PIT Erdödy 4 II HR 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@net.hr

Czech Republic			
Sales	**Praha**	SEW-EURODRIVE CZ S.R.O. Business Centrum Praha Lužná 591 CZ-16000 Praha 6 - Vokovice	Tel. +420 220121234 Fax +420 220121237 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz

Denmark			
Assembly **Sales** **Service**	**Kopenhagen**	SEW-EURODRIVEA/S Geminivej 28-30, P.O. Box 100 DK-2670 Greve	Tel. +45 43 9585-00 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk

Estonia			
Sales	**Tallin**	ALAS-KUUL AS Mustamäe tee 24 EE-10620 Tallin	Tel. +372 6593230 Fax +372 6593231 veiko.soots@alas-kuul.ee

Finland			
Assembly **Sales** **Service**	**Lahti**	SEW-EURODRIVE OY Vesimäentie 4 FIN-15860 Hollola 2	Tel. +358 201 589-300 Fax +358 3 780-6211 sew@sew.fi http://www.sew-eurodrive.fi

Gabon			
Sales	**Libreville**	Electro-Services B.P. 1889 Libreville	Tel. +241 7340-11 Fax +241 7340-12

Great Britain			
Assembly **Sales** **Service**	**Normanton**	SEW-EURODRIVE Ltd. Beckbridge Industrial Estate P.O. Box No.1 GB-Normanton, West- Yorkshire WF6 1QR	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk

Greece			
Sales **Service**	**Athen**	Christ. Boznos & Son S.A. 12, Mavromichali Street P.O. Box 80136, GR-18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr

Hong Kong			
Assembly **Sales** **Service**	**Hong Kong**	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 2 7960477 + 79604654 Fax +852 2 7959129 sew@sewhk.com

Hungary			
Sales **Service**	**Budapest**	SEW-EURODRIVE Kft. H-1037 Budapest Kunigunda u. 18	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 office@sew-eurodrive.hu

India			
Assembly **Sales** **Service**	**Baroda**	SEW-EURODRIVE India Pvt. Ltd. Plot No. 4, Gidc Por Ramangamdi • Baroda - 391 243 Gujarat	Tel. +91 265 2831086 Fax +91 265 2831087 http://www.seweurodriveindia.com mdoffice@seweurodriveindia.com
Technical Offices	**Bangalore**	SEW-EURODRIVE India Private Limited 308, Prestige Centre Point 7, Edward Road Bangalore	Tel. +91 80 22266565 Fax +91 80 22266569 salesbang@seweurodriveinindia.com

Ireland			
Sales **Service**	**Dublin**	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458

Israel			
Sales	**Tel-Aviv**	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 lirazhandasa@barak-online.net

Italy			
Assembly **Sales** **Service**	**Milano**	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 9801 Fax +39 02 96 799781 http://www.sew-eurodrive.it sewit@sew-eurodrive.it

Ivory Coast			
Sales	**Abidjan**	SICA Ste industrielle et commerciale pour l'Afrique 165, Bld de Marseille B.P. 2323, Abidjan 08	Tel. +225 2579-44 Fax +225 2584-36

Japan			
Assembly **Sales** **Service**	**Iwata**	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373814 sewjapan@sew-eurodrive.co.jp

Korea			
Assembly **Sales** **Service**	**Ansan-City**	SEW-EURODRIVE KOREA CO., LTD. B 601-4, Banweol Industrial Estate Unit 1048-4, Shingil-Dong Ansan 425-120	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-korea.co.kr master@sew-korea.co.kr

Latvia			
Sales	**Riga**	SIA Alas-Kuul Katlakalna 11C LV-1073 Riga	Tel. +371 7139253 Fax +371 7139386 http://www.alas-kuul.com info@alas-kuul.com

Lebanon			
Sales	**Beirut**	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 4947-86 +961 1 4982-72 +961 3 2745-39 Fax +961 1 4949-71 gacar@beirut.com

Lithuania			
Sales	**Alytus**	UAB Irseva Naujoji 19 LT-62175 Alytus	Tel. +370 315 79204 Fax +370 315 56175 info@irseva.lt http://www.sew-eurodrive.lt

Luxembourg			
Assembly **Sales** **Service**	**Brüssel**	CARON-VECTOR S.A. Avenue Eiffel 5 B-1300 Wavre	Tel. +32 10 231-311 Fax +32 10 231-336 http://www.caron-vector.be info@caron-vector.be

Malaysia			
Assembly **Sales** **Service**	**Johore**	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my

Mexico			
Assembly **Sales** **Service**	**Queretaro**	SEW-EURODRIVE MEXIKO SA DE CV SEM-981118-M93 Tequisquiapan No. 102 Parque Industrail Queretaro C.P. 76220 Queretaro, Mexico	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx

Morocco			
Sales	**Casablanca**	Afit 5, rue Emir Abdelkader MA 20300 Casablanca	Tel. +212 22618372 Fax +212 22618351 richard.miekisiak@premium.net.ma

Netherlands			
Assembly **Sales** **Service**	**Rotterdam**	VECTOR Aandrijftechniek B.V. Industrieweg 175 NL-3044 AS Rotterdam Postbus 10085 NL-3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 http://www.vector.nu info@vector.nu

New Zealand			
Assembly **Sales** **Service**	**Auckland**	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferrymead Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz

Norway			
Assembly **Sales** **Service**	**Moss**	SEW-EURODRIVE A/S Solgaard skog 71 N-1599 Moss	Tel. +47 69 241-020 Fax +47 69 241-040 http://www.sew-eurodrive.no sew@sew-eurodrive.no

Peru			
Assembly **Sales** **Service**	**Lima**	SEW DEL PERU MOTORES REDUCTORES S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe

Poland			
Assembly **Sales** **Service**	**Lodz**	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 PL-92-518 Lodz	Tel. +48 42 67710-90 Fax +48 42 67710-99 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl

Portugal			
Assembly **Sales** **Service**	**Coimbra**	SEW-EURODRIVE, LDA. Apartado 15 P-3050-901 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt

Romania			
Sales **Service**	**Bucuresti**	Sialco Trading SRL str. Madrid nr.4 011785 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro

Russia			
Assembly **Sales** **Service**	**St. Petersburg**	ZAO SEW-EURODRIVE P.O. Box 36 195220 St. Petersburg Russia	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru

Senegal			
Sales	**Dakar**	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 849 47-70 Fax +221 849 47-71 senemeca@sentoo.sn

Serbia and Montenegro			
Sales	**Beograd**	DIPAR d.o.o. Ustanicka 128a PC Košum, IV floor SCG-11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 dipar@yubc.net

Singapore			
Assembly **Sales** **Service**	**Singapore**	SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com

Slovakia			
Sales	**Bratislava**	SEW-Eurodrive SK s.r.o. Rybnicna 40 SK-83107 Bratislava	Tel. +421 2 49595201 Fax +421 2 49595200 http://www.sew.sk sew@sew-eurodrive.sk
	Zilina	SEW-Eurodrive SK s.r.o. ul. Vojtecha Spanyola 33 SK-010 01 Zilina	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banská Bystrica	SEW-Eurodrive SK s.r.o. Rudlovská cesta 85 SK-97411 Banská Bystrica	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk

Slovenia			
Sales **Service**	**Celje**	Pakman - Pogonska Tehnika d.o.o. UI. XIV. divizije 14 SLO - 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net

South Africa			
Assembly **Sales** **Service**	**Johannesburg**	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 494-3104 http://www.sew.co.za dross@sew.co.za
	Capetown	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 dswanepoel@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaceo Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 dtait@sew.co.za

Spain			
Assembly **Sales** **Service**	**Bilbao**	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 E-48170 Zamudio (Vizcaya)	Tel. +34 9 4431 84-70 Fax +34 9 4431 84-71 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es

Sweden			
Assembly **Sales** **Service**	**Jönköping**	SEW-EURODRIVE AB Gnejsvägen 6-8 S-55303 Jönköping Box 3100 S-55003 Jönköping	Tel. +46 36 3442-00 Fax +46 36 3442-80 http://www.sew-eurodrive.se info@sew-eurodrive.se

Switzerland			
Assembly **Sales** **Service**	**Basel**	Alfred Imhof A.G. Jurastrasse 10 CH-4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch

Thailand			
Assembly **Sales** **Service**	**Chon Buri**	SEW-EURODRIVE (Thailand) Ltd. Bangpakong Industrial Park 2 700/456, Moo.7, Tambol Donhuaroh Muang District Chon Buri 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com

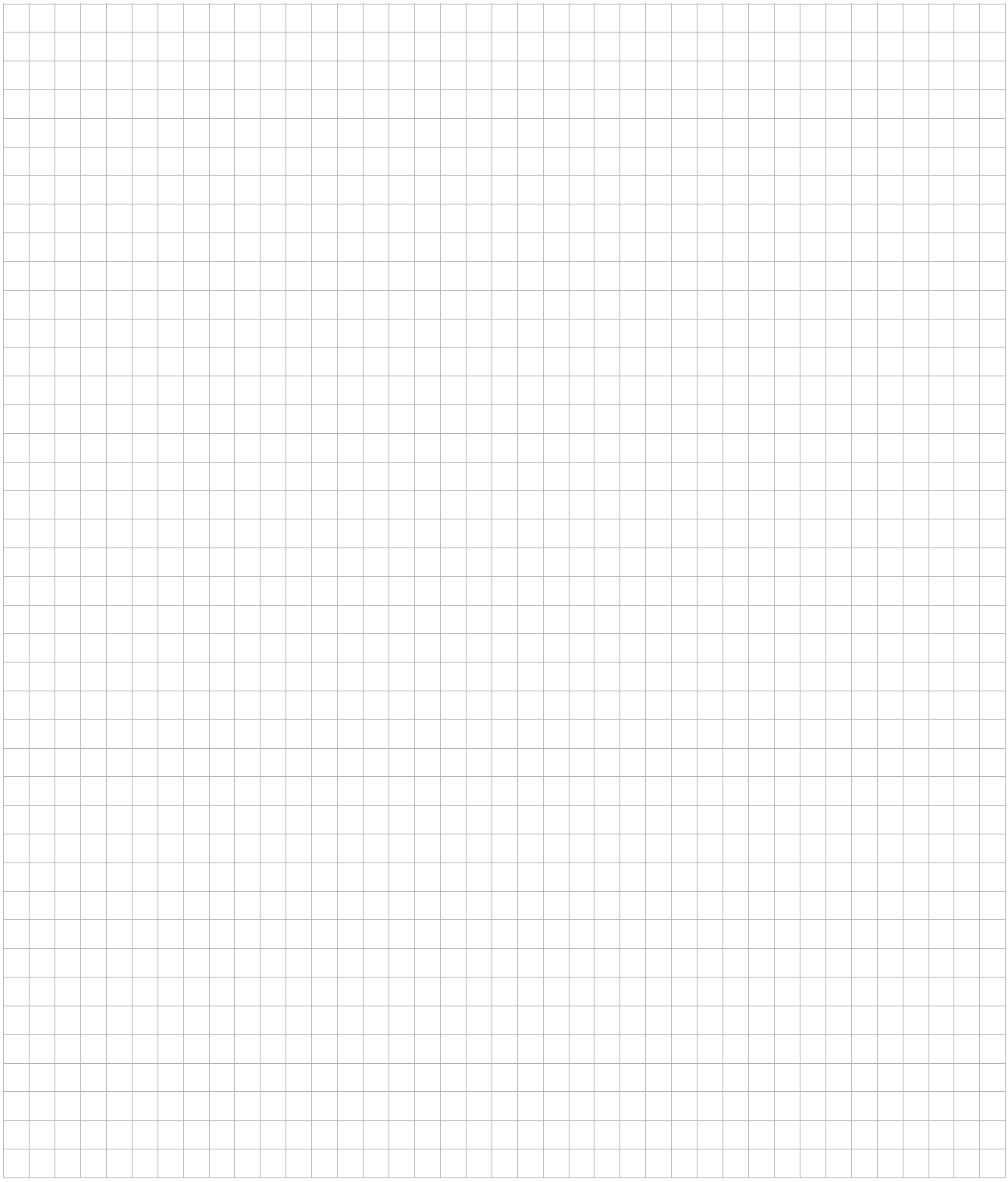
Tunisia			
Sales	**Tunis**	T. M.S. Technic Marketing Service 7, rue Ibn El Heithem Z.I. SMMT 2014 Mégrine Erriadh	Tel. +216 1 4340-64 + 1 4320-29 Fax +216 1 4329-76 tms@tms.com.tn

Turkey			
Assembly **Sales** **Service**	**Istanbul**	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Bagdat Cad. Koruma Cikmazi No. 3 TR-34846 Maltepe ISTANBUL	Tel. +90 216 4419163 / 164 3838014/15 Fax +90 216 3055867 sew@sew-eurodrive.com.tr

Ukraine			
Sales **Service**	**Dnepropetrovsk**	SEW-EURODRIVE Str. Rabochaja 23-B, Office 409 49008 Dnepropetrovsk	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua

USA			
Production **Assembly** **Sales** **Service**	**Greenville**	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Manuf. +1 864 439-9948 Fax Ass. +1 864 439-0566 Telex 805 550 http://www.seweurodrive.com cslyman@seweurodrive.com
Assembly **Sales** **Service**	**San Francisco**	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, California 94544-7101	Tel. +1 510 487-3560 Fax +1 510 487-6381 cshayward@seweurodrive.com
	Philadelphia/PA	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Dayton	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 440-3799 cstroy@seweurodrive.com
	Dallas	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Additional addresses for service in the USA provided on request!		

Venezuela			
Assembly **Sales** **Service**	**Valencia**	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo	Tel. +58 241 832-9804 Fax +58 241 838-6275 http://www.sew-eurodrive.com.ve sewventas@cantv.net sewfinanzas@cantv.net



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SEW-EURODRIVE GmbH & Co KG
P.O. Box 3023 · D-76642 Bruchsal / Germany
Phone +49 7251 75-0 · Fax +49 7251 75-1970
sew@sew-eurodrive.com

→ **www.sew-eurodrive.com**