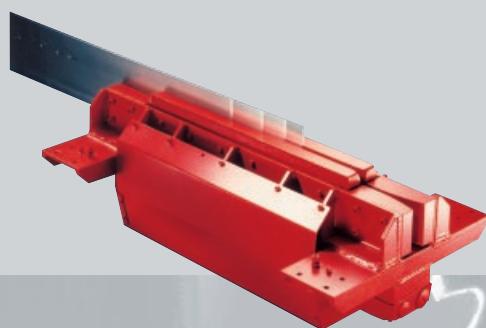


**SEW**  
**EURODRIVE**

## Asynchronous Linear Motors

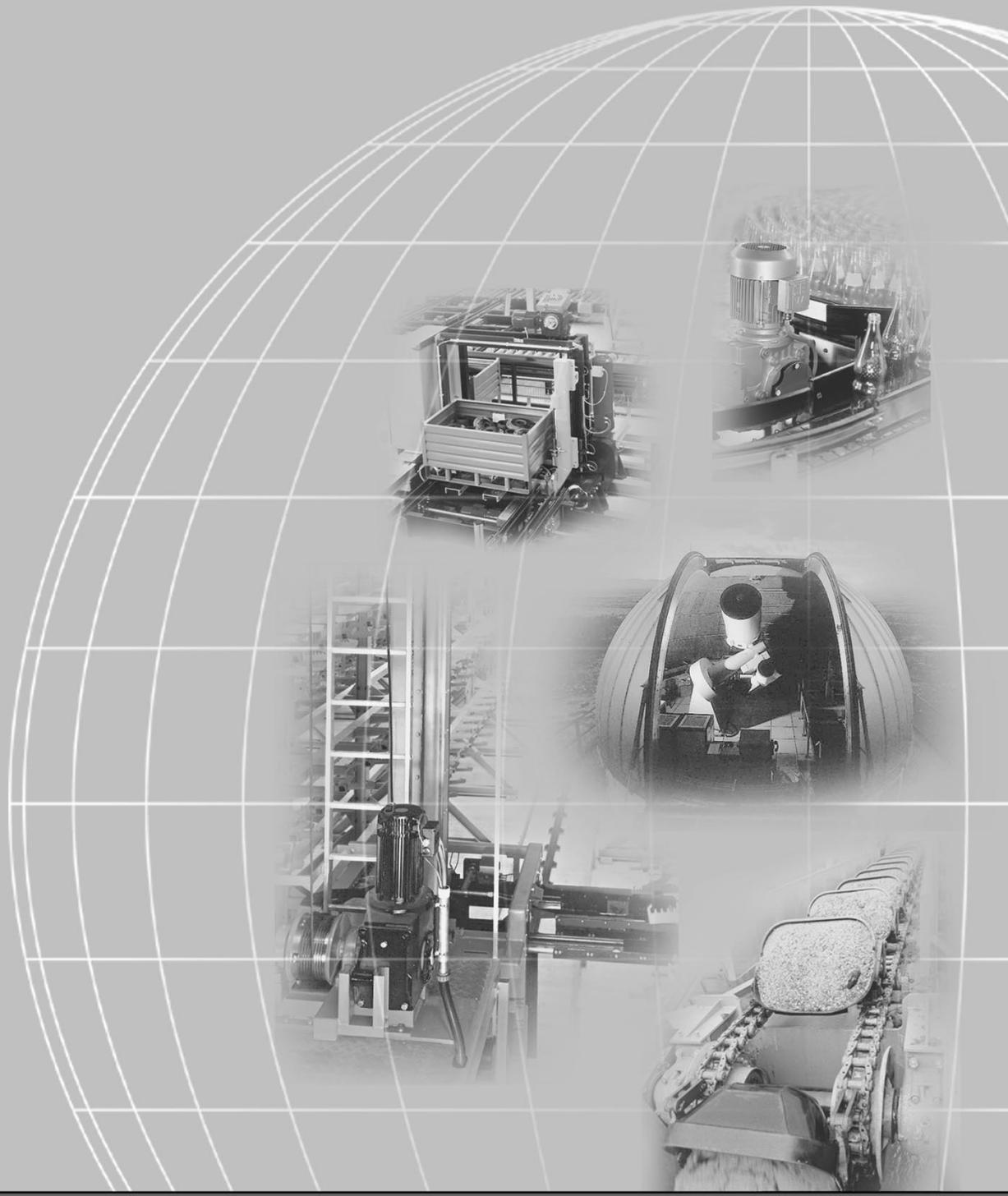
**Edition**

**02/2001**

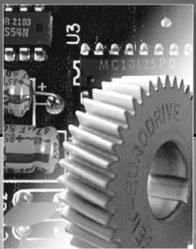
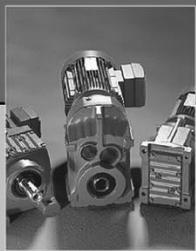


**Catalog**  
1050 8414 / EN

**SEW**  
**EURODRIVE**



## SEW-EURODRIVE





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## 1 The SEW-EURODRIVE Group

### **Introduction**

SEW-EURODRIVE is a global market leader in the area of drive technology. The global presence, the comprehensive product lines and the broad range of services make SEW the ideal partner for companies operating in the area of mechanical and system engineering when solving sophisticated drive challenges.

Based on many years of experience in the area of drive technology, SEW develops, manufactures and sells all drives with mechanical, electrical and electronic components.

The headquarters of the Group is located in Bruchsal, Germany. The components of the SEW modular drive system are manufactured to the highest standards of quality in plants located in Germany, France, the United States, Brazil and China. The individual drive systems are assembled in plants located in more than 30 industrialized countries all over the world. The components for these systems are held in stock at a location close to the customer and are delivered with consistently high quality and very short times. SEW has offices in more than 50 countries around the globe where you can turn for information on sales, consulting, customer service and spare parts.

### **The product spectrum**

- Geared motors, gear units and motors
  - Helical Gear Units & Motors
  - Parallel Shaft Helical Gear Units & Motors
  - Helical Bevel Gear Units & Motors
  - Helical Worm Gear Unit & Motors
  - Spiroplan® right-angle geared motor
  - Planetary Gear Units & Motors
  - Large-scale gear units
  - Low backlash helical-bevel gear units & motors/planetary gear units & motors
  - Brake motors
  - Explosion-proof drives
  - Pole-changing geared motors
- Electronically controlled drives
  - MOVITRAC® frequency inverters
  - MOVIDRIVE® drive inverters
  - MOVIDYN® servo controllers
  - Technology and communication options for the inverters
  - AC asynchronous motors and AC geared motors
  - Asynchronous servomotors and geared servomotors
  - Synchronous servomotors and geared servomotors
  - DC motors, brake motors and geared motors
  - Synchronous and asynchronous linear motors
- Components for decentralized installation
  - MOVIMOT® geared motors with integrated frequency inverter
  - MOVI-SWITCH® geared motors w/ integrated switching and protection features
  - Field distributors
  - Pre-fabricated hybrid cables
- Variable Speed Drives
  - VARIBLOC® wide V-belt variable speed geared motors
  - VARIMOT® friction disc variable speed geared motors
- Services
  - Technical Support
  - User software
  - Seminars and training
  - Comprehensive technical documentation
  - Global customer service



## 2 Product Description and Overview of Types

### **Content of catalog**

This catalog describes asynchronous linear motors with technical data, dimension sheets and project planning notes.

Additional information on linear motors, geared motors, geared servomotors and drive inverters can be found in the separate catalogs, system manuals and descriptions.

### *Additional catalogs*

- Synchronous linear motors
- Geared Motors
- Geared servomotors
- MOVIDRIVE®
- MOVITRAC®31C
- MOVITRAC®07

### *System manual*

- MOVIDRIVE®
- MOVIDRIVE®*compact*
- MOVITRAC®07

### *System description*

- SEW Linear Motors

### 2.1 Functional description

An asynchronous linear motor, similar to a rotary AC asynchronous motor, basically consists of two parts, a primary and a secondary.

#### *Primary*

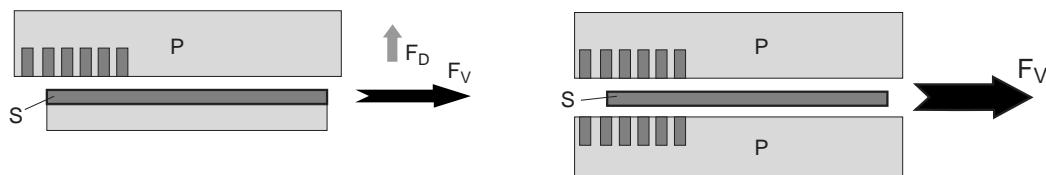
The electrically "active" primary consists of a laminated iron core and an AC winding. It is often referred to as a "comb" due to the shape of the laminated iron core.

#### *Secondary*

The secondary, contrary to the rotary motor, consists of a massive plate (sword) made of aluminum or copper.

#### *No magnetic forces in double comb version*

If a drive consists of a primary (P) and a secondary (S), a magneto force  $F_D$  arises between primary and secondary besides the thrust force  $F_V$ . The attractive force is directly dependent on the size of the thrust force. If you use two primary components (double comb design, Fig. 1 right), the magnetic forces are cancelled out and only the thrust forces takes effect. The result is an increasing efficiency and a decreasing apparent power consumption.



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Fig. 1: Single and double comb design

In practical applications, the primary is often stationary and the secondary a moving component. This configuration can often be found in materials-handling and sorting applications. Depending on the application, the primary can also be the moving component (e.g. drives for industrial trucks, muscular power supports).



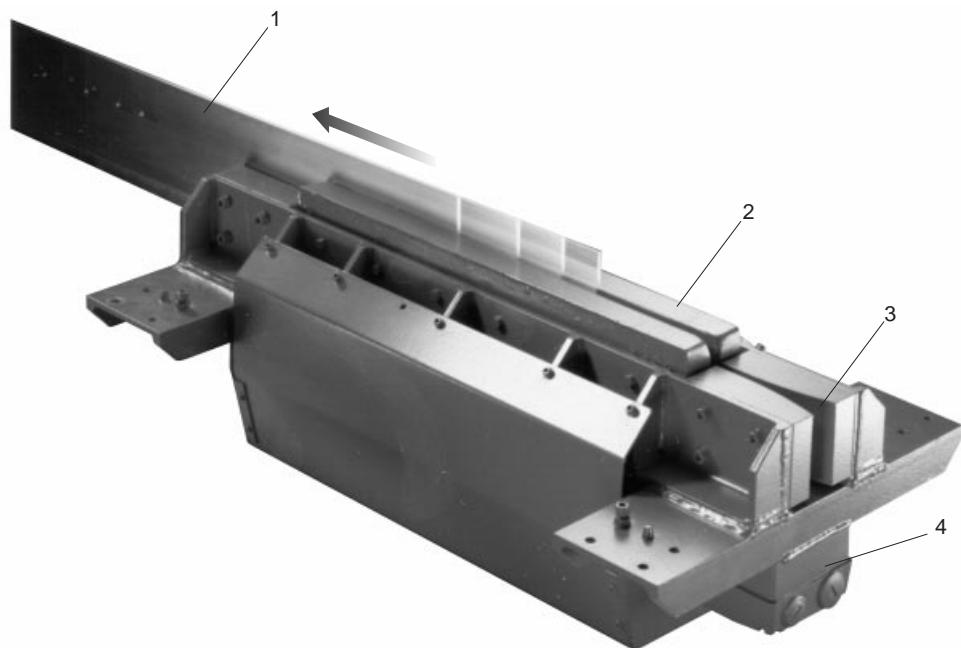
## 2.2 System description

The SEW asynchronous linear motors are low noise in operation and used when there are high demands on maintenance-free life and velocity. The relatively small space requirement and the simple installation predestine these motors for many applications.

The following characteristics define asynchronous linear motors:

- no wear due to contactless energy transfer
- force takes effect only in direction of thrust, now overhung load acting on secondary
- no shock load of drive train
- very simple secondary made of aluminum or copper
- unproblematic operation of several motors in one drive train
- very long travel distances can be easily covered
- low noise development

SEW offers DLD Series asynchronous linear motors in connection with MOVIDRIVE® drive inverters; a drive solution from one source.



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*Fig. 2: DLD Series asynchronous linear motor*

### Components

- (1) secondary made of aluminum or copper
- (2) primary in double comb design
- (3) motor terminal box with integrated plug connector



### DLD Series asynchronous linear motor design

For the reasons listed above, the DLD Series asynchronous linear motor consists of two power-supplied primaries (double comb design) mounted in a cast frame and a secondary supplied by the customer.

The magnetic overhung loads between primary and secondary will be compensated in the double comb design.

The reference conditions listed in the section "secondary" apply to achieve the rated forces listed in the section "Technical Data" on page 13.

The asynchronous linear motor has free-wheeling characteristics in its de-energized state. Electric braking is possible, but using the motor in a positioning drive is possible only to a very limited degree due to the large amount of slip caused by the design.

### 2.3 Scope of delivery

The SEW scope of delivery comprises

- DLD.. primary with integrated IS plug connector
- MOVIDRIVE® MDV60A drive inverter



**The SEW scope of delivery does not include a secondary.**

### 2.4 Sizes

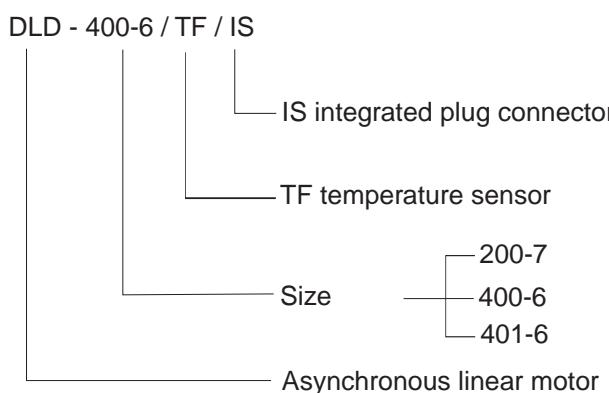
The primary program of asynchronous linear motors includes three sizes:

- DLD 200-7
- DLD 400-6
- DLD 401-6

Customer-specific designs are available, e.g. greater velocities and thrust forces or a primary in single comb design. Feel free to contact SEW for further information.

### 2.5 Type code

The type code for asynchronous linear motors has the following structure:



03965AEN



## Calculation of thrust forces

### 3 Project Planning

#### 3.1 Calculation of thrust forces

In order to determine the correct drive power, it is necessary to determine the forces generated at constant travel as well as acceleration.



The following formula is based on the fact that the moving component runs on a wheel-rail system.

##### **Force at constant travel**

$$F_F = m \cdot g \cdot \left[ \frac{2}{D} \cdot \left( \mu \cdot \frac{d}{2} + f \right) + c \right]$$

##### *Legend*

$F_F$ [N]	= Force at constant travel
$m$ [kg]	= Total weight
$g$ [ $\text{ms}^{-2}$ ]	= Gravitation constant
$D$ [mm]	= Diameter of the traveling wheel
$\mu$	= Bearing friction coefficient
$D$ [mm]	= Diameter of the bearing neck
$f$ [mm]	= Lever arm of rolling friction
$c$	= Wheel flange and rim friction coefficient

In case the travel resistance is known, the force at constant travel is calculated as follows:

$$F_F = m \cdot f_w$$

##### *Legend*

$m$ [kg]	= Total weight
$f_w$ [ $\text{Nkg}^{-1}$ ]	= Travel resistance



**Please pay close attention to rim friction when performing the calculation; it is particularly prevalent in curve travel.**

##### **Force of acceleration**

The force of acceleration is calculated as follows:

$$F_A = m \cdot a$$

##### **Maximum thrust force**

The maximum thrust force is calculated according to the following formula:

$$F_V = F_F + F_A$$

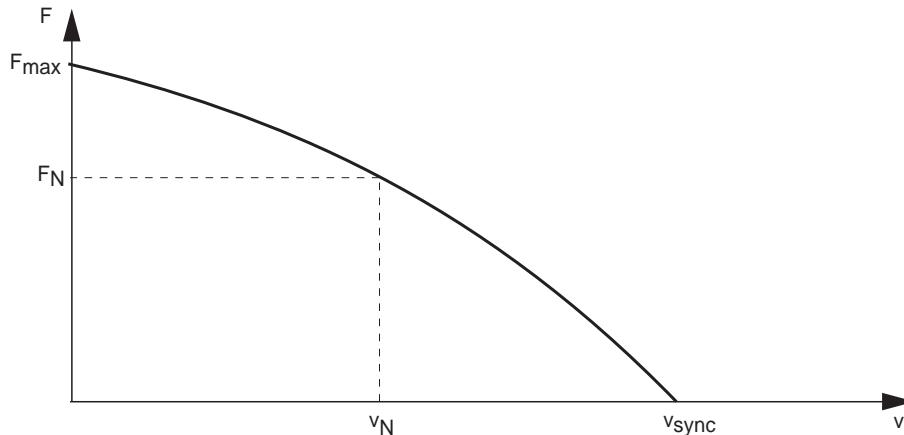
##### *Legend*

$F_V$ [N]	= Maximum thrust force
$F_A$ [N]	= Force of acceleration
$F_F$ [N]	= Force at constant travel
$m$ [kg]	= Total weight
$a$ [ $\text{ms}^{-2}$ ]	= Desired acceleration



### 3.2 Drive selection

#### **Motor characteristics**



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Fig. 3: Overload capacity of motors in starting range 150 %  $F_N$ 

#### **Motor selection**

Systems equipped with DLD Series motors are usually designed for utilization in S1 operation.

$$F_F = x \cdot F_N \cdot 0.8$$

The factor 0.8 takes into account the control reserve for a possible velocity control.

If the remaining force of acceleration

$$F_A = F_H - F_F = 1.25 F_N - F_F$$

should be too low, the motor power must be increased by selecting a motor with a larger rated power or by increasing the number of motors.

#### *Legend*

$F_A[N]$  = Force of motor acceleration

$F_N[N]$  = Rated motor power

$F_F [N]$  = Force at constant travel

$F_{N+}[N]$  = Run-up power of motor

$x$  = Number of motors

#### **Inverter selection**

The drive inverter has to be selected so that it can continuously supply the rated current of the motor (motors).

The following formula is used to determine the continuous output current supplied by the drive inverter:

$$I_D = x \cdot I_N$$

#### *Legend*

$I_D [A]$  = Continuous output current of the drive inverter

$I_N [A]$  = Rated motor current

$x$  = Number of motors

#### **Group drive with DLD Series motors**

Several asynchronous DLD Series linear motors can be connected in parallel to a drive inverter without causing any problems. Please note that the line lengths of the motors are not that different.



### 3.3 Velocity sensing and control

Linear drives can basically be operated with velocity control (V/f operation). There are several options to sense the thrust velocity of the secondary in case there is a higher demand for precise velocity. Here are two suggestions:

#### Velocity sensing with contacts

An analog speed sensor (1) generates a voltage in proportion to the velocity of the secondary (2). The analog signal serves as an input signal for a PI controller that has to be programmed in the drive inverter (3).

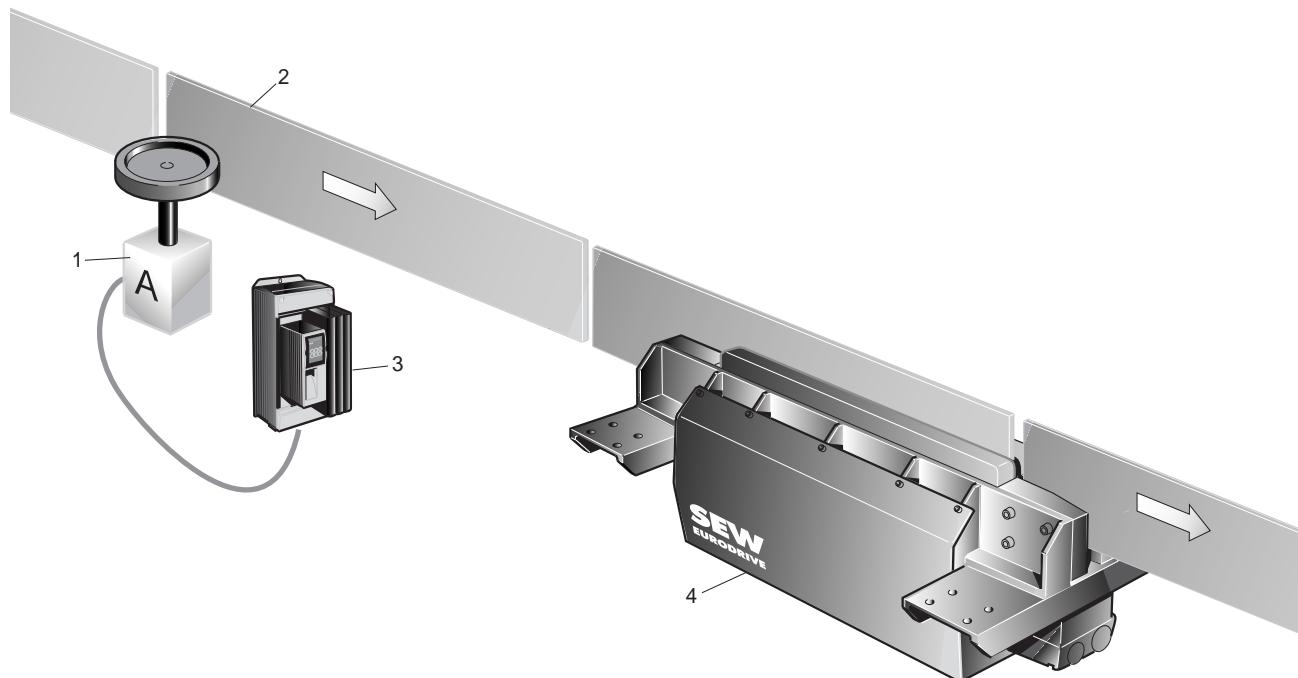


Fig. 4: Velocity sensing with contacts

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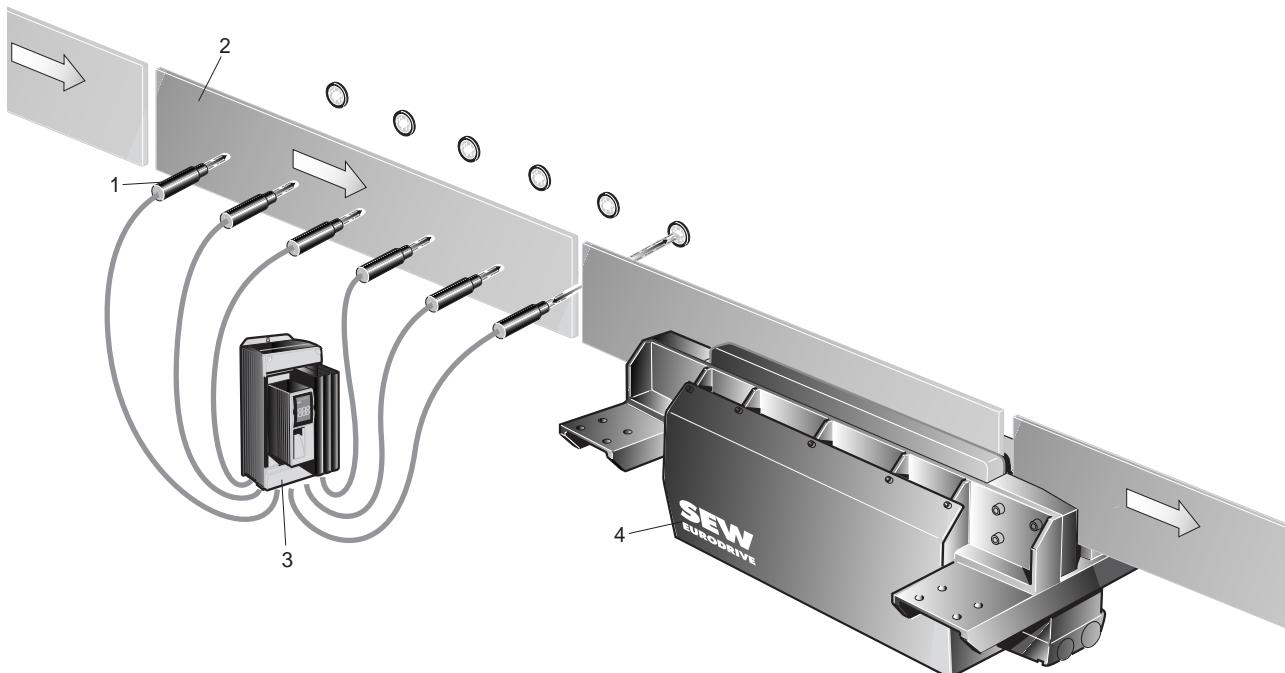
#### Legend

- (1) Friction wheel speed sensor with analog output
- (2) Secondary of linear motor
- (3) MOVIDRIVE® drive inverter
- (4) Primary of linear motor



### Velocity sensing without contacts

Six light barriers (1) will be mounted along the travel distance of the secondary (2). A continuous pulse sequence is generated from the light barrier signals via a diode circuit. The outputs of the diode circuit are directly connected with the binary inputs of the MOVIDRIVE® drive inverter. A special software will implement velocity control and motion direction detection.



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*Fig. 5: Velocity sensing without contacts*

### Legend

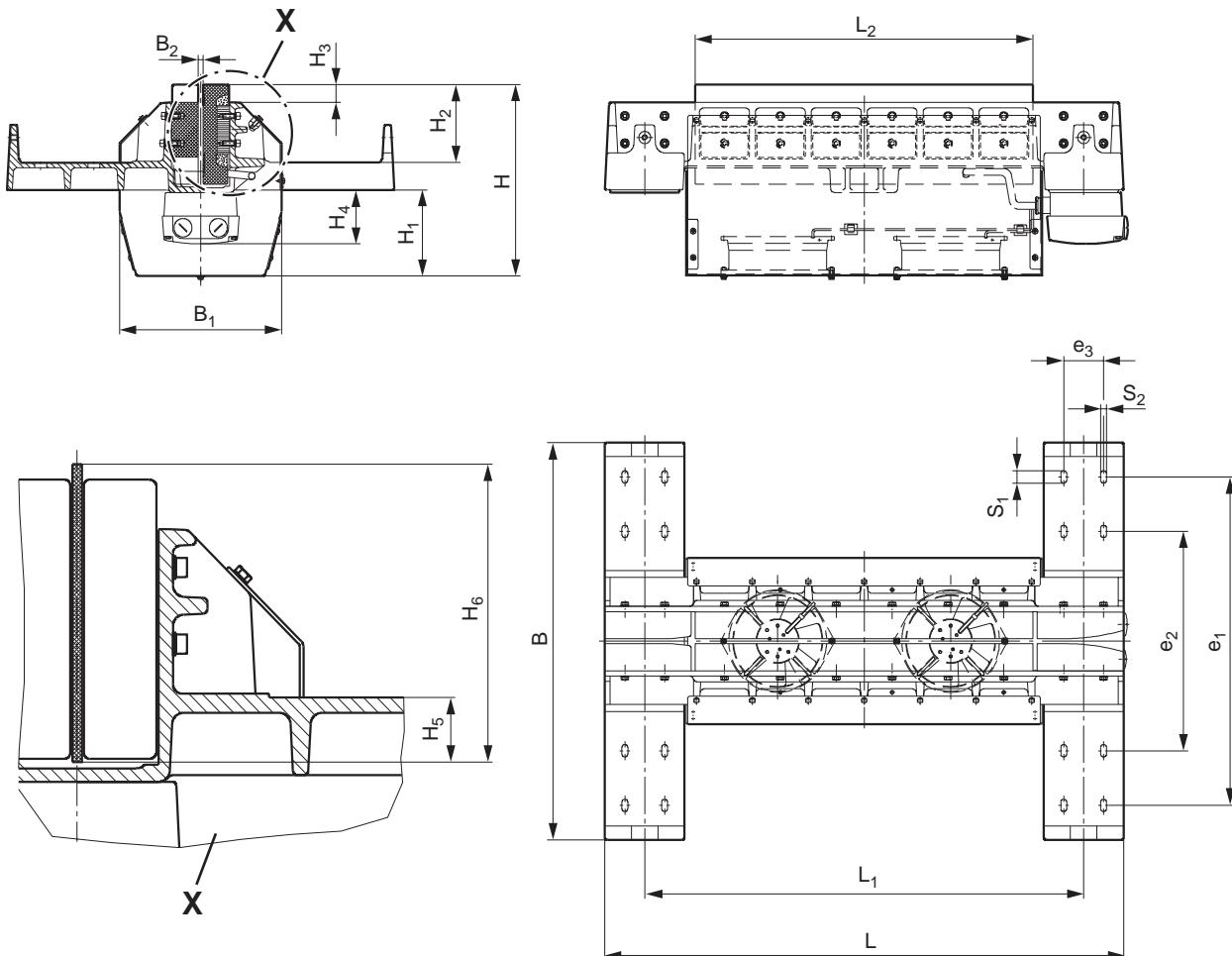
- (1) Light barriers 1...6
- (2) Secondary of linear motor
- (3) MOVIDRIVE® drive inverter
- (4) Primary of linear motor



You will receive a more detailed description of the circuit and information about the software by contacting SEW.



## 4 Dimension Sheet



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Typ	L	B	H	L <sub>1</sub>	L <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	H <sub>6</sub>	e <sub>1</sub>	e <sub>2</sub>	e <sub>3</sub>	s <sub>1</sub>	s <sub>2</sub>
<b>DLD 200-7</b>	826	426	191	723	591	171	7	68	93	26	79	5	98	330	250	40	18	9
<b>DLD 400-6</b>	780	582	235	660	508	243	7.4	81	114	26	79	33	148	480.8	320.8	60	18	9
<b>DLD 401-6</b>	780	736	235	660	508	243	7.4	81	114	26	79	33	148	575	415	60	18	9



The secondary is not included in the scope of delivery. The H<sub>5</sub> and H<sub>6</sub> dimensions serve as a note for sizing the secondary.

The values indicated for H<sub>5</sub> are maximum values and may not be exceeded.

The values indicated for H<sub>6</sub> should not be lower than indicated to reach the rated data (see "Technical Data" on page 13).

## 5 Technical Data

### 5.1 Motors



The following rated data can only be met by designing the secondary exactly to the data listed in section 5.2.

		Motor size	
		DLD 200-7 TF / IS	DLD 400-6 TF / IS DLD 401-6 TF / IS
Rated thrust $F_N$	[N]	200	400
Rated velocity $v_N$	[m/s]	2	
Rated power $P_N$	[kW]	0.4	0.8
Voltage at rated point $V_N$	[V]	360	310
Rated current $I_N$	[A]	6.5	9.7
Rated frequency $f_N$	[Hz]	23	
Power factor $\cos \varphi$		0.55	
Pole pitch	[mm]	84	
Motor protection		TF temperature sensor	
Enclosure		IP00	
Weight	[kg]	56	59
Noise level	[db(A)]	< 60	
Ambient temperature	[°C]	-30 °C to +40 °C	
Connection		IS integrated plug connector	

### 5.2 Secondary

The  $H_5$  and  $H_6$  dimensions (→ section 4) as well as the length of the secondary should be observed as much as possible without very few deviations above or below the value.

Motor size	Secondary [mm]		Rated thickness secondary [mm]		Rated conductance [ $10^6/\Omega\text{m}$ ]	
	$H_6^{1)}$	length	aluminum	copper	aluminum	copper
DLD 200	98	700	5	3		
DLD 400 / 401	148	650	5	3	min. 35	min. 55

1) see section 4

If the thickness of the secondary and the material conductance cannot be adhered to due to the nature of a design, this is **approximation**:

$$\text{reduced force} = \text{rated force} \cdot \frac{\text{actual thickness}}{\text{rated thickness}} \cdot \frac{\text{actual conductance}}{\text{rated conductance}}$$



The secondary is not included in the SEW scope of delivery!

### 5.3 Forced cooling fan

		Motor size	
		DLD 200-7 TF / IS	DLD 400-6 TF / IS DLD 401-6 TF / IS
Voltage $V_N$	[V]	230	
Current $I$	[A]	0.9	0.6
Frequency $f$	[Hz]	50/60	
Power $P$	[W]	120	80

#### 5.4 Electrical connection

The electrical connection of the DLD Series motors takes place via the IS integrated plug connector.

**IS bottom part  
(motor side)**

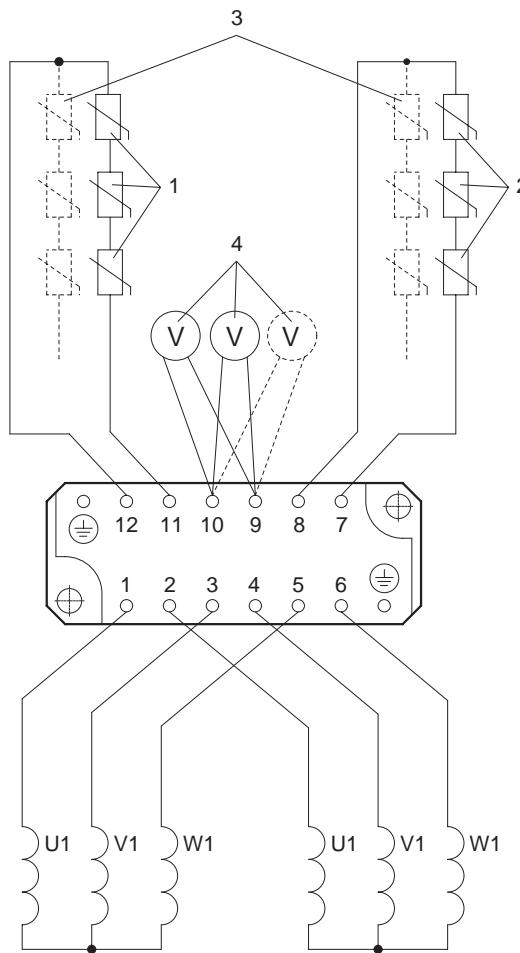


Fig. 1: Electrical connection IS bottom part, motor side

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**Legend**

- 1 PTC thermistor (TF) left
- 2 PTC thermistor (TF) right
- 3 PTC thermistor (TF) reserve, not connected
- 4 Fan 230 V, 50 Hz (three (3) fans for DLD 200-7, two (2) fans for DLD 400-6/401-6)

**IS top part  
(customer side)**

The TF temperature sensor (1) can be evaluated separately for one primary comb (Fig. 2, left) in double comb design or in series for both primary combs (Fig. 2, right).

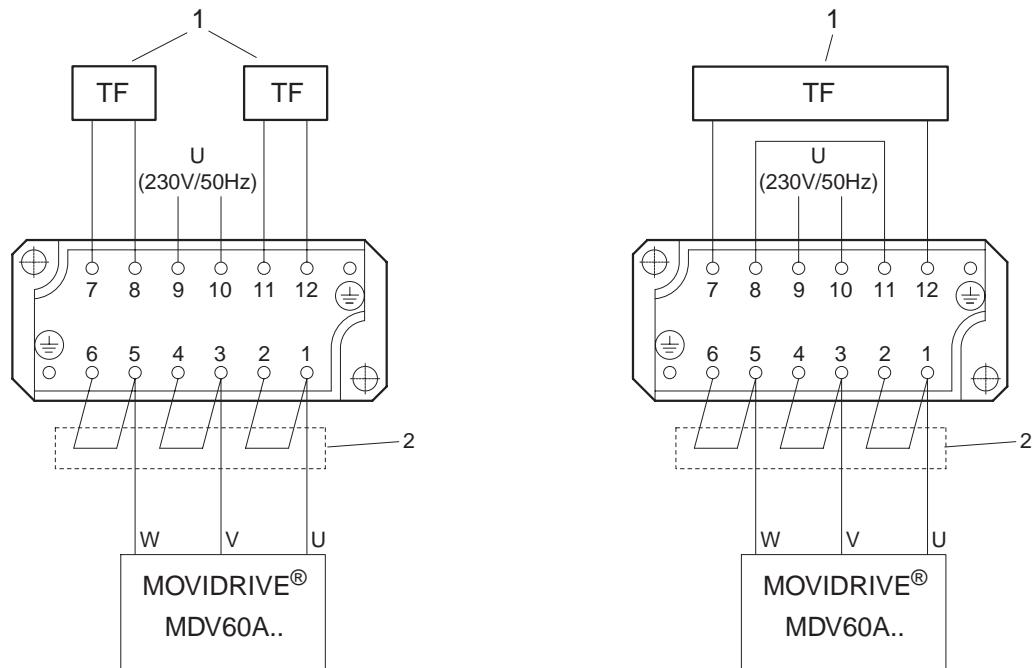


Fig. 2: Electrical connection IS top part, customer side

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**Legend**

- 1 TF evaluation (e.g. in MOVIDRIVE®)
- 2 Variable terminal link



## Address list

### Address list

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	<b>Lyon</b>	SEW-USOCOME SAS Parc d'Affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. 04 72 15 37 00 Fax 04 72 15 37 15
	<b>Paris</b>	SEW-USOCOME SAS Zone industrielle 2, rue Denis Papin F-77390 Verneuil l'Etang	Tel. 01 64 42 40 80 Fax 01 64 42 40 88
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	<b>New Delhi</b>	SEW-EURODRIVE India Private Limited 303 Kirti Deep, 2-Nangal Raya Business Centre New Delhi 110 046	Tel. 011-5 61 15 66 Fax 011-5 51 34 94
	<b>Pune</b>	SEW-EURODRIVE India Private Limited 206, Metro House 7 Mangaldas Road Pune 411001, Maharashtra	Tel. (20) 60 10 54 Fax (20) 63 13 65 sewpun@pn2.vsnl.net.in
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<b>Ireland</b>			
<b>Sales Service</b>	<b>Dublin</b>	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. (01) 8 30 62 77 Fax (01) 8 30 64 58
<b>Israel</b>			
	<b>Tel-Aviv</b>	Liraz Handasa Ltd. 126 Petach-Tikva Rd. Tel-Aviv 67012	Tel. 03-6 24 04 06 Fax 03-6 24 04 02
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	<b>Firenze</b>	RIMA Via Einstein, 14 I-50013 Campi Bisenzio (Firenze)	Tel. (055) 8 98 58 21 /-22 Fax (055) 8 98 58 30
	<b>Roma</b>	Elettromec Via Castel Rosso, 10 I-00144 Roma	Tel. (06) 5 92 45 30 Fax (06) 5 92 45 30
	<b>Torino</b>	SEW-EURODRIVE di R. Bickle & Co.s.a.s. Corso G. Ferraris,146 I-10129 Torino	Tel. (011) 318 66 06 Fax (011) 319 0115
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	<b>Porto</b>	AV. D. AFONSO HENRIQUES, 1196-9° Sala 909 - Edificio Acia P- 4450 Matosinhos	Tel. (022) 9 35 03 83 Fax (022) 9 35 03 84 MobilTel. (351) 09 33 2 55 91 10 esc.porto@sew-eurodrive.pt
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	<b>Lugo</b>	Delegación Noroeste Apartado, 1003 E-27080 Lugo	Tel. 6 39 40 33 48 Fax 9 82 20 29 34
	<b>Madrid</b>	Delegación Madrid Gran Vía, 48-2º A-D E-28220 Majadahonda (Madrid)	Tel. 9 16 34 22 50 Fax 9 16 34 08 99
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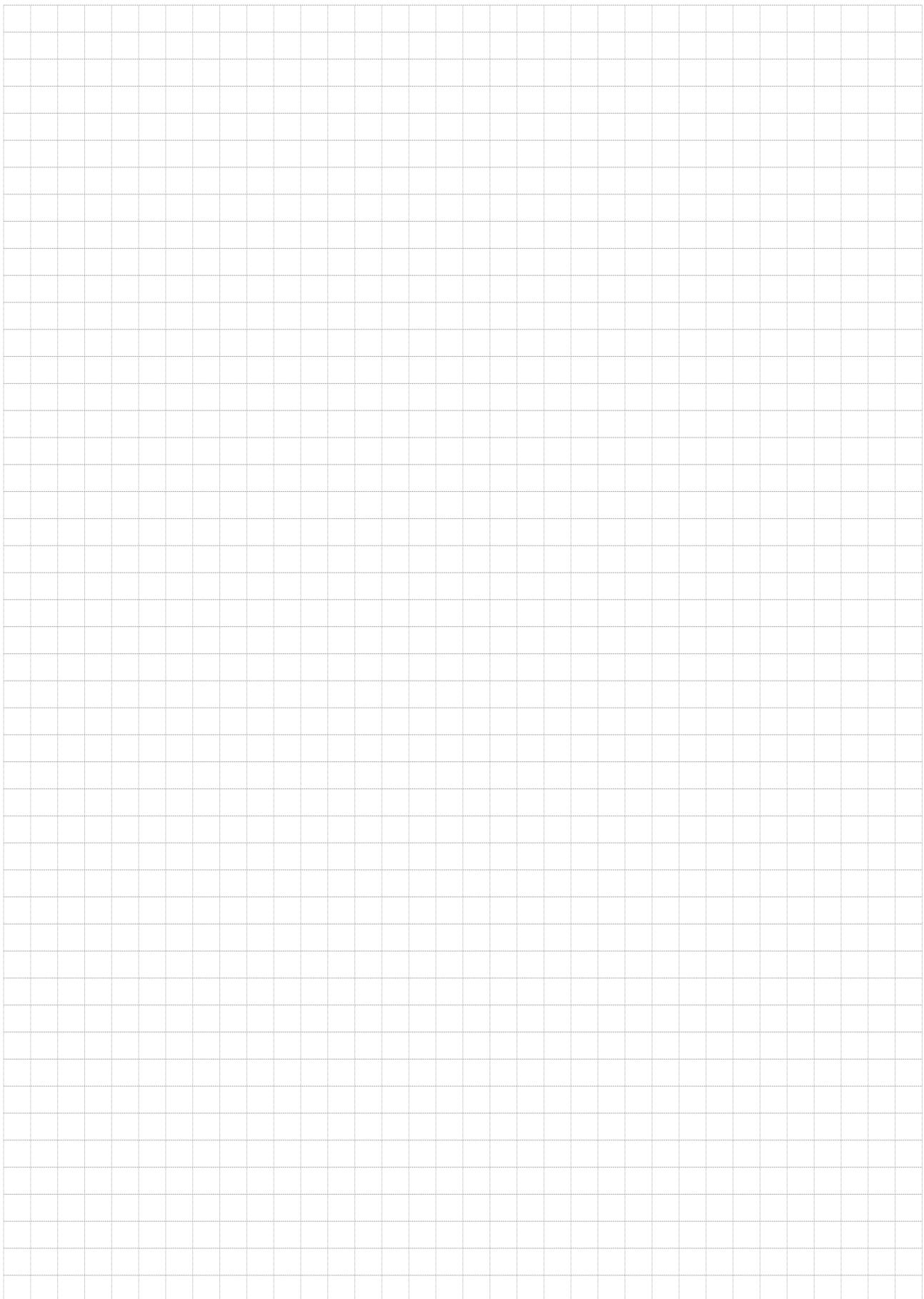


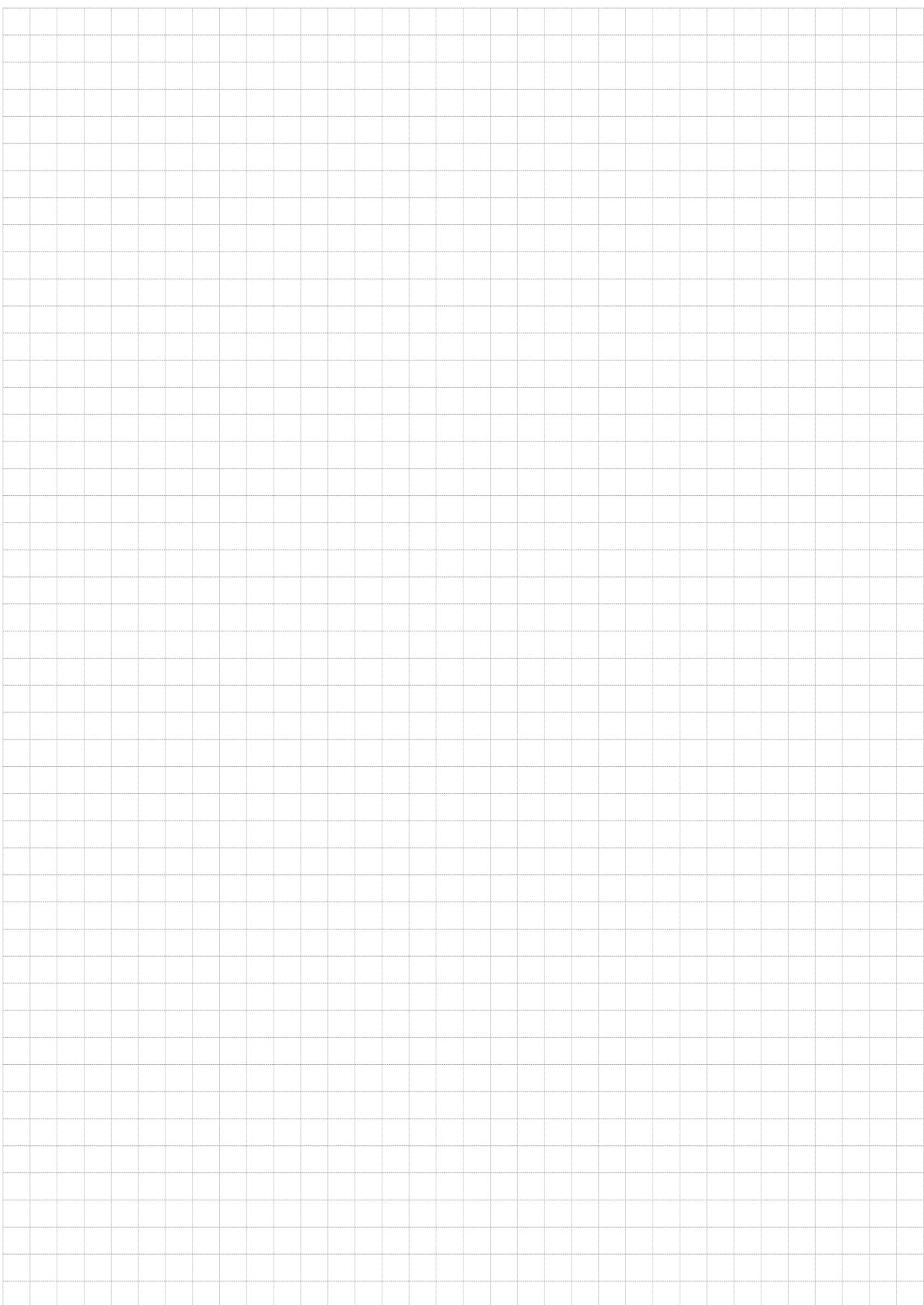
<b>Thailand</b>			
<b>Assembly Sales Service</b>	<b>Chon Buri</b>	SEW-EURODRIVE (Thailand) Ltd. Bangpakong Industrial Park 2 700/456, Moo.7, Tambol Donhuaro Muang District Chon Buri 20000	Tel. 0066-38 21 40 22 Fax 0066-38 21 45 31
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