



SEW
EURODRIVE

Operating Instructions



Contactless Energy Transfer System
MOVITRANS® line THM10E/THM20E flat pick-ups



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1 General information

1.1 About this documentation

The documentation at hand is the original.

This documentation is an integral part of the product. The documentation is intended for all employees who perform work on the product.

Make sure this documentation is accessible and legible. Ensure that persons responsible for the systems and their operation as well as persons who work on the product independently have read through the documentation carefully and understood it. If you are unclear about any of the information in this documentation or if you require further information, contact SEW-EURODRIVE.

1.2 Other applicable documentation

Observe the corresponding documentation for all additional components.

1.3 Structure of the safety notes

1.3.1 Meaning of signal words

The following table shows the graduation and meaning of the signal words in the warnings:

Signal word	Meaning	Consequences if not observed
▲ DANGER	Imminent danger	Death or severe injuries
▲ WARNING	Possible dangerous situation	Death or severe injuries
▲ CAUTION	Possible dangerous situation	Minor injuries
NOTICE	Possible damage to property	Damage to the product or its environment
INFORMATION	Useful information or tip: Simplifies handling of the product.	

1.3.2 Structure of section-related safety notes

Section-related safety notes do not apply to a specific action but to several actions pertaining to one subject. The hazard symbols used either indicate a general hazard or a specific hazard.

This is the formal structure of a safety note for a specific section:



SIGNAL WORD

Type and source of hazard.

Possible consequence(s) if disregarded.

- Measure(s) to prevent the hazard.

1.3.3 Structure of embedded safety notes

Embedded safety notes are directly integrated into the instructions just before the description of the dangerous step.

This is the formal structure of an embedded safety note:

▲ SIGNAL WORD! Type and source of danger. Possible consequence(s) if disregarded. Measure(s) to prevent danger.

1.4 Decimal separator in numerical values

In this document, a period is used to indicate the decimal separator.

Example: 30.5 kg

1.5 Rights to claim under limited warranty

Read the information in this documentation. This is essential for fault-free operation and fulfillment of any rights to claim under limited warranty. Read the documentation before you start working with the product.

1.6 Product names and trademarks

The product names mentioned in this documentation are trademarks or registered trademarks of the respective titleholders.

1.7 Copyright notice

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2 Safety Notes

2.1 Preliminary information

The following general safety notes serve the purpose of preventing injury to persons and damage to property. They primarily apply to the use of products described in this documentation. If you use additional components, also observe the relevant warning and safety notes.

2.2 Duties of the user

As the user, you must ensure that the basic safety notes are observed and complied with. Make sure that persons responsible for the machinery and its operation as well as persons who work on the device independently have read through the documentation carefully and understood it.

As the user, you must ensure that all of the work listed in the following is carried out only by qualified specialists:

- Setup and installation
- Installation and connection
- Startup
- Maintenance and repairs
- Shutdown
- Disassembly

Ensure that the persons who work on the product pay attention to the following regulations, conditions, documentation, and information:

- The national and regional regulations governing safety and the prevention of accidents
- The warning and safety signs on the product
- All other associated project planning documents, installation and startup instructions, as well as wiring diagrams
- Do not assemble, install or operate damaged products
- All system-specific specifications and regulations

Ensure that systems in which the product is installed are equipped with additional monitoring and protection devices. Observe the applicable safety regulations and legislation governing technical work equipment and accident prevention regulations.

2.3 Designated use

The product is intended for installation in electrical systems or machines.

The product is intended for mobile use in industrial and commercial systems with contactless energy transfer systems.

In case of installation in electrical systems or machines, startup of the product is prohibited until it is determined that the machine meets the requirements stipulated in the local laws and directives. For Europe, Machinery Directive 2006/42/EC as well as the EMC Directive 2014/30/EU apply. Observe EN 60204-1 (Safety of machinery - electrical equipment of machines). The product meets the requirements stipulated in the Low Voltage Directive 2014/35/EU.

The standards given in the declaration of conformity apply to the product.

Technical data and information on the connection conditions are provided on the nameplate and in chapter "Technical data" in the documentation. Always comply with the data and conditions.

Unintended or improper use of the product may result in severe injury to persons and damage to property.

For mobile components, the following applies:

THM pick-ups

Use the pick-ups only with designated and suitable TPM mobile converters or MOVIPRO® drive and application controllers.

TDM pick-ups

Use the pick-ups only with designated and suitable consumers.

TPM mobile converter

Use the mobile converter only with designated THM pick-ups and suitable consumers, e.g. inverters from SEW-EURODRIVE.

2.3.1 Restrictions under the European WEEE Directive 2012/19/EU

Options and accessories from SEW-EURODRIVE may only be used in combination with products from SEW-EURODRIVE.

2.4 Electromagnetic fields

Observe ICNIRP 2010 and IEEE C95.1-2019 or the national installation regulations, for example DGUV regulation 15 - "Electromagnetic fields", when installing, starting up and operating systems with a contactless energy transfer system based on the inductive principle in the vicinity of workplaces. For more information on electromagnetic fields, refer to the manual "MOVITRANS® Protective Measures and Planning Information for Systems".

2.5 Target group

Specialist for mechanical work	Any mechanical work may be performed only by adequately qualified specialists. Specialists in the context of this documentation are persons who are familiar with the design, mechanical installation, troubleshooting, and maintenance of the product, and who possess the following qualifications: • Qualifications in the field of mechanics in accordance with the national regulations • Familiarity with this documentation
Specialist for electrotechnical work	Any electrotechnical work may be performed only by electrically skilled persons with a suitable education. Electrically skilled persons in the context of this documentation are persons who are familiar with electrical installation, startup, troubleshooting, and maintenance of the product, and who possess the following qualifications: • Qualifications in the field of electrical engineering in accordance with the national regulations • Familiarity with this documentation
Additional qualifications	In addition to that, these persons must be familiar with the valid safety regulations and laws, as well as with the requirements of the standards, directives, and laws specified in this documentation. The persons must have the express authorization of the company to operate, program, parameterize, label, and ground devices, systems, and circuits in accordance with the standards of safety technology.
Instructed persons	All work in the areas of transport, storage, installation, operation and waste disposal may only be carried out by persons who are trained and instructed appropriately. These instructions must enable the persons to carry out the required activities and work steps safely and in accordance with regulations.

2.6 Functional safety technology

The product must not perform any safety functions without a higher-level safety system unless explicitly allowed by the documentation.

2.7 Transport

Inspect the shipment for damage as soon as you receive the delivery. Inform the shipping company immediately about any damage. If the product or the packaging is damaged, do not assemble, install, connect, or start up the product. If the packaging is damaged, the product itself may also be damaged.

Observe the following notes when transporting the device:

- Ensure that the product is not subject to mechanical impact.

If necessary, use suitable, sufficiently dimensioned handling equipment.

Observe the information on climatic conditions in chapter "Technical data" (→ 30) of the documentation.

2.8 Installation/assembly

Ensure that the product is installed and cooled in accordance with the regulations in the documentation.

Protect the product from excessive mechanical strain. The product and its mounted components must not protrude into the path of persons or vehicles. Ensure that no components are deformed or no insulation spaces are modified, particularly during transportation. Electrical components must not be mechanically damaged or destroyed.

Observe the notes in chapter "Mechanical installation" (→  17) in the documentation.

2.8.1 Restrictions of use

The following applications are prohibited unless the device is explicitly designed for such use:

- Use in potentially explosive areas.
- Use in areas exposed to harmful oils, acids, gases, vapors, dust, and radiation.
- Operation in applications with impermissibly high mechanical vibration and shock loads in excess of the regulations stipulated in EN 60068-2-6 and/or EN 60068-2-27.

2.9 Electrical installation

Ensure that all of the required covers are correctly attached after the electrical installation.

Make sure that preventive measures and protection devices comply with the applicable regulations (e.g. EN 60204-1 or EN 61800-5-1).

2.9.1 Mobile application

Preventive measures that are required for the product according to IEC 61140 are:

- Protection through protective separation
- Discharge measures against electrostatic discharge (ESD) and capacitive coupling

2.10 Startup/operation

Note the following information during the startup and operation of MOVITRANS® units:

- Only electrical specialists with the appropriate accident prevention training are allowed to perform installation, startup, and service work on the units. These specialists must also comply with the regulations in force (e.g. EN 60204, VBG 4, DIN-VDE 0100/0113/0160) when performing this work.
- Never install or start up damaged units.
- In the event of deviations from normal operation, switch the product off. Possible deviations are increased temperatures, noise, or vibration, for example. Determine the cause. Contact SEW-EURODRIVE.
- Do not disconnect the connection to the product during operation. This may result in dangerous electric arcs damaging the product.
- Do not deactivate monitoring and protection devices of the product even for a test run.
- Please take suitable measures to ensure that the system does not unintentionally start up when the supply is switched on.

- Depending on the degree of protection, MOVITRANS® units may have live parts as well as hot surfaces during operation.
- When the system is switched on, dangerous voltages are present at the output terminals and their connected cables, terminals, and MOVITRANS® units. Dangerous voltages can also occur when the supply and mobile components are locked, and the system is in an idle state.
- The fact that the operation LED and other display elements of the mobile components are no longer illuminated does not indicate that the units have been disconnected from the energy supply and no longer carry any voltage.
- Device-internal safety functions can result in stopping the system. Eliminating the cause of the problem or performing a reset can result in the system re-starting automatically. If this is not permitted for safety reasons, first switch off the magnetic field using the safety function SAFS or alternatively disconnect the supply from the grid and then eliminate the cause of the problem.
- After the energy supply has been switched off, dangerous voltages can continue to be present at the unit connections for up to 10 minutes.
- Removing the housing covers is forbidden.

3 Device structure

3.1 THM10E type designation

THM10E	MOVITRANS® flat mobile pick-up
015	Nominal power: 1500 W
–	
009	Inductance: 103 µH
–	
000	Compensation capacity: not integrated
–	
1	Standard design

3.2 THM20E type designation

THM20E	MOVITRANS® flat mobile pick-up
020	Nominal power: 2000 W
–	
579	Inductance: 5.79 mH
–	
007	Compensation capacity: 7 nF
–	
1	Standard design

3.3 THM10E scope of delivery

Component	
MOVITRANS® THM10E015-009-000-1 pick-up	
	With permanently installed connection cable including Han® Q 4/2 connector with angled cable outlet (maximum length 6 m, specify when ordering)

3.4 THM20E scope of delivery

Component	
MOVITRANS® THM20E020-579-007-1 pick-up	
	With permanently installed connection cable with tab connector (maximum length 6 m, depending on order), only available with halogen-free connection cable
	With permanently installed connection cable with Han® Q 4/2 plug connector with angled cable outlet and cable outlet direction on the same side as PIN 1, color code black (maximum length 6 m, depending on order)
	With permanently installed connection cable with Han® Q 4/2 plug connector with angled cable outlet and cable outlet direction on the opposite side of PIN 1, color code red (maximum length 6 m, depending on order)
	With permanently installed connection cable with Han® Q 4/2 plug connector with straight cable outlet (maximum length 6 m, depending on order)

3.5 THM10E short designation

The following short designation is used in this documentation:

Unit	Short designation
MOVITRANS® THM10E015-009-000-1 pick-up	THM10E pick-up

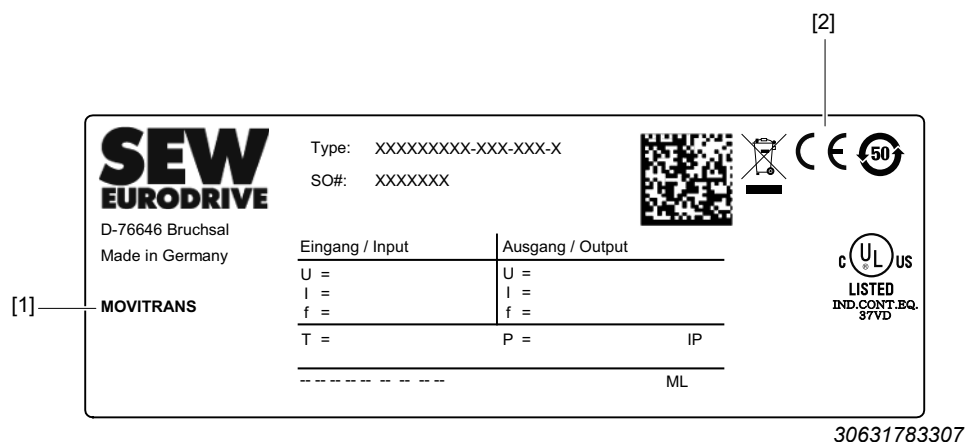
3.6 THM20E short designation

The following short designation is used in this documentation:

Unit	Short designation
MOVITRANS® THM20E020-579-007-1 pick-up	THM20E pick-up

3.7 Nameplate

The nameplate lists information about the product type. The following figure shows an example of a nameplate:



- [1] Product name
[2] Approval markings

Depending on the product design, the following information is listed on the nameplate:

Value	Specification
Type	Type designation
SO#	Order number
U	Voltage
I	Current
f	Frequency
T	Ambient temperature
P	Nominal power
IP	Degree of protection

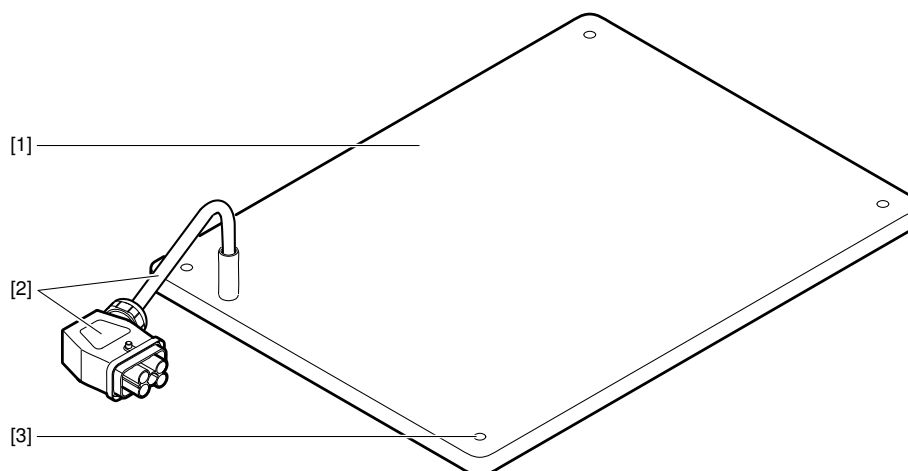
3.8 Caution signs

Caution signs warning about potential hazards are attached to multiple areas on the product. Ensure that the following caution signs for identifying hazardous areas are complete and legible:

Hazard symbol	Meaning
	Warning of hot surfaces

3.9 THM10E unit overview

The following figure shows the unit structure of the THM10E pick-up:

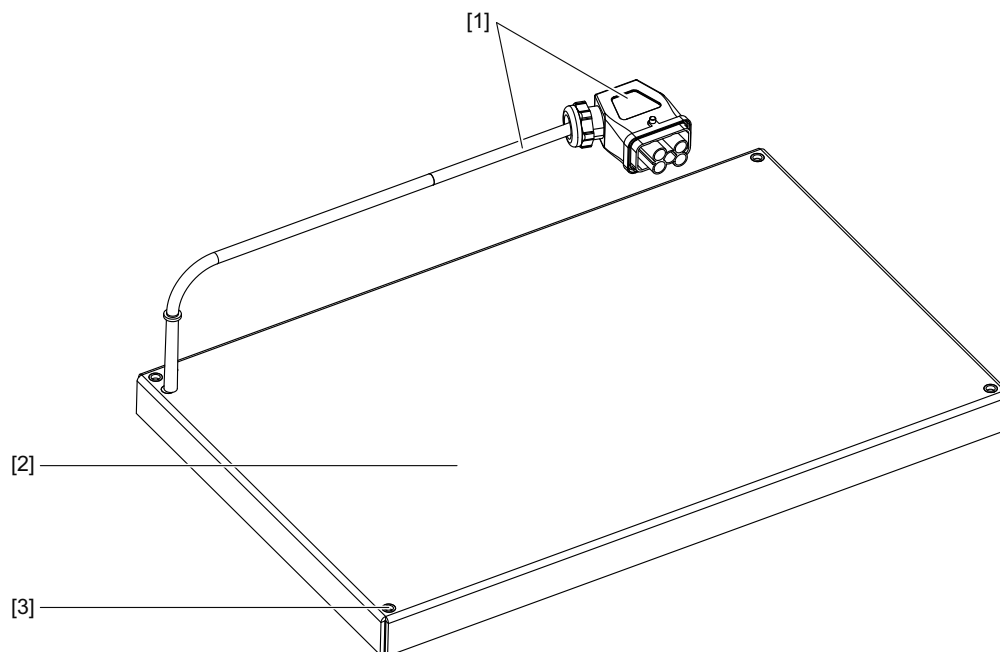


1530999819

- [1] THM10E flat pick-up
- [2] Permanently installed connection cable including Han® Q 4/2 connector with angled cable outlet:
Maximum length 6 m
- [3] 4 M8 through tapped holes for fastening of the THM10E pick-up

3.10 THM20E unit overview

The following figure shows the unit structure of the THM20E pick-up:



2803032203

- [1] Permanently installed connection cable with Han® Q 4/2 plug connector with angled cable outlet:
Maximum length 6 m, depending on order
- [2] THM20E flat pick-up
- [3] 4 M6 threaded bushings for fastening of the THM20E pick-up

4 Mechanical installation

4.1 Mounting of THM10E/20E

Observe the following installation instructions when mounting the flat pick-up:

- Install the flat pick-up centrally and parallel to the installed TLS line cable.
- Make sure to avoid any lateral and angular offset of the pick-up during mounting, as this would greatly reduce the transmittable power.
- Only fasten the holding fixtures above the pick-up. The holding fixtures must not be fastened to the sides.

NOTICE

Damages due to excessive external forces.

Damage to the thread or the screw.

- Do not exceed the maximum permitted tightening torque.

Tightening torque
for THM10E

- The maximum permitted tightening torque for the M8 retaining screws is 7 Nm.
- The M8 retaining screws must not protrude from the tapped holes.

Tightening torque
for THM20E

- The maximum permitted tightening torque for the M6 retaining screws is 3.5 Nm.

Observe the following drilling dimensions in chapter "Dimension drawings" (→ 47).

Observe the information regarding the transmittable power of the flat pick-up in chapter "Transmittable power" (→ 33).

4.2 Clearances for flat pick-ups

INFORMATION



Solid steel constructions and aluminum shield plates can impair the energy transfer even outside the clearances shown. Contact SEW-EURODRIVE in case of any doubt.

INFORMATION



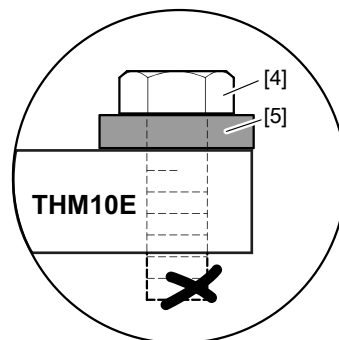
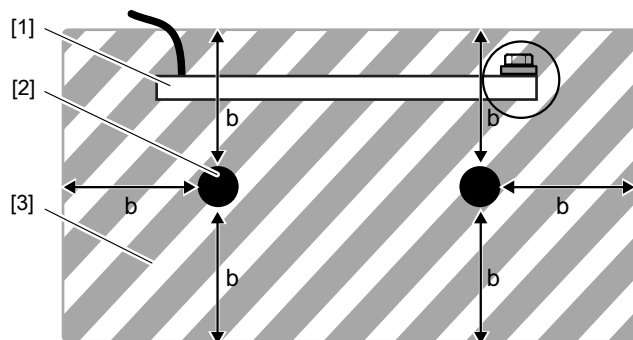
If you are planning to have an EMC coating on the floor in the vicinity of the inductive energy transfer, contact SEW-EURODRIVE before laying the line cable.

- Ensure that there is no ferromagnetic or conductive material within a distance of $b = 10$ cm from the TLS inner conductor.
- Always keep the area between the pick-up and the TLS line cable free from metallic materials.

4 Mechanical installation

Clearances for flat pick-ups

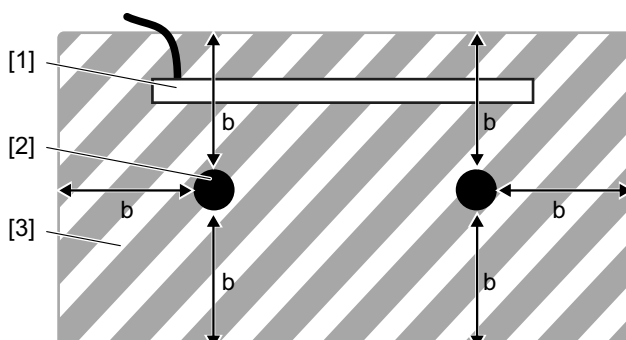
THM10E



9007235105945611

- [1] THM10E pick-up
- [2] Line cable
- [3] Clearance
Distance $b = 8 - 10$ cm
- [4] M8 retaining screw
- [5] Holding rail

THM20E



34651027595

- [1] THM20E pick-up
- [2] Line cable
- [3] Clearance
Distance $b = 8 - 10$ cm

5 Electrical installation

5.1 Installation notes

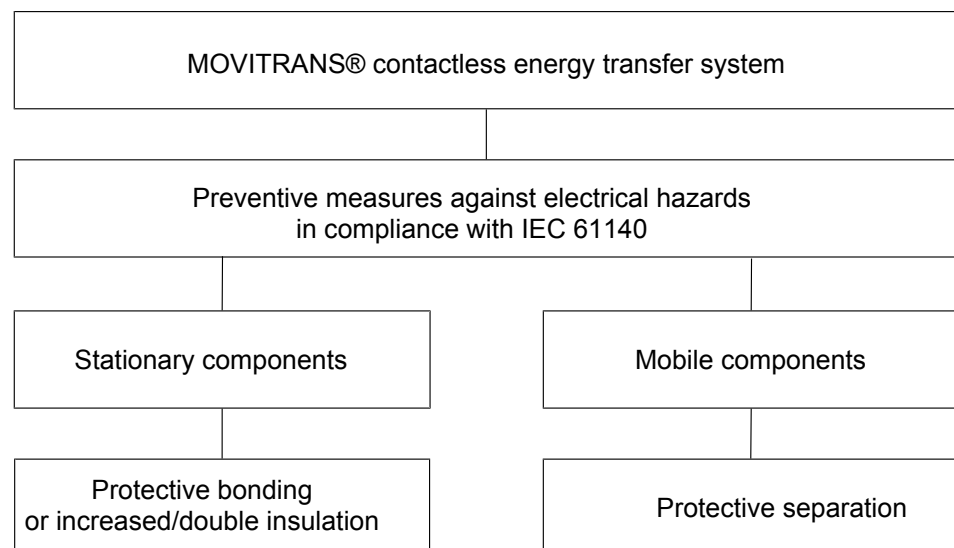
Observe the following points for electrical installation:

- Observe the general safety notes.
- Comply with all instructions referring to the technical data and the permissible conditions where the device is operated.

5.2 Preventive measures against electrical hazards

5.2.1 Overview

The following figure provides an overview of the preventive measures against electrical hazards according to DIN EN 61140 (IEC 61140:2016):



34903762827

Further information can be found in the manual "MOVITRANS® Preventive measures and planning information for systems".

5.2.2 Contactless energy transfer system

The following preventive measures protect mobile systems with contactless energy transfer against electrical hazards:

- Protective separation
- Discharge measures

Installing ground connection or equipotential bonding

**▲ WARNING**

Electric shock due to faulty ground connection or equipotential bonding.

Severe or fatal injuries.

- Make sure to install the ground connection and equipotential bonding correctly.

All electrical operating resources must be safeguarded with a ground connection or equipotential bonding.

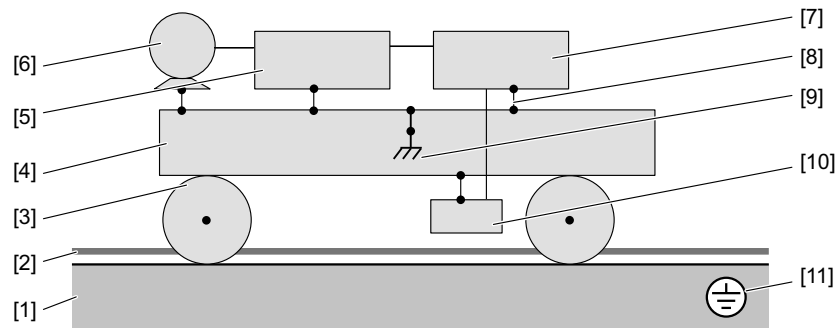
Protective separation

All electrical equipment on the mobile part, such as on a vehicle, must be equipotentially bonded to each other.

- Establish high-frequency equipotential bonding via the vehicle support frame (vehicle GND).
- Provide metal-to-metal contact over a large surface area.
- Use high-frequency equipotential bonding cables with a minimum cross section of 10 mm².
- Mark the equipotential bonding cables according to DIN EN 61140 (IEC 61140) and color-code them according to IEC 60445.

Equipotential bonding on mobile systems ensures that in case of a fault, no contact voltages occur.

The following figure shows a sample mobile system with contactless energy transfer system:



9007199752652939

- | | |
|---|---------------------------|
| [1] Dissipative floor coverings or work areas | [7] Mobile converter |
| [2] Line cable | [8] Equipotential bonding |
| [3] Dissipative or conductive track rollers or wheels | [9] Vehicle GND |
| [4] Vehicle support frame | [10] Pick-up |
| [5] Drive and application controller | [11] Ground |
| [6] Motor | |

General information

- All cables must have double basic insulation. Double insulation is also required for the supply cable of the pick-up. These requirements are always met when using MOVITRANS® components.
- Dissipation of electrical charges between vehicle support frame (vehicle mass) and a ground potential is permitted.

- If it is required in certain production steps, temporary grounding of the vehicle support frame is permitted.
- Grounding of mobile systems in areas with "ground connection" as preventive measure does not result in a higher risk potential and is therefore permitted.
- A possible potential transfer to mobile components (vehicles) via third-party equipment must be ruled out during planning and operation.

Discharge measures

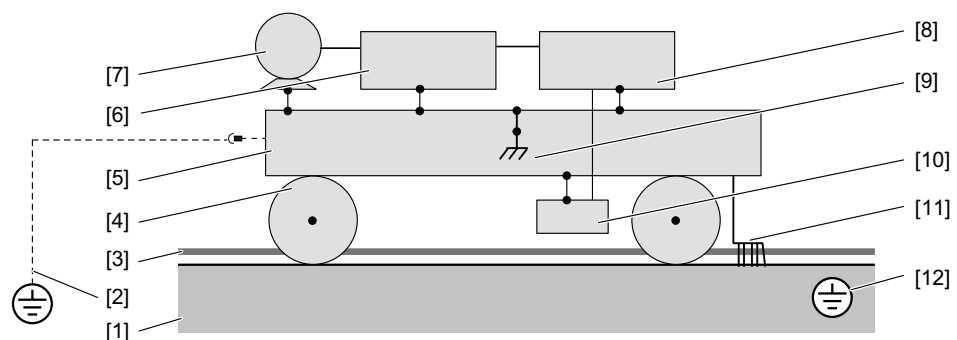
To ensure optimum protection against electrostatic discharge (ESD) and capacitive coupling, you have to take measures between the mobile component and the stationary end for dissipating the charges. This is particularly important for mobile systems such as lifting gears, floor conveyor vehicles, or floor conveyor systems.

You can dissipate charges as follows:

- Via conductive components, such as:
 - Combs
 - Brushes
 - Springs
 - Sliders
- Via dissipative or conductive track rollers or wheels
- Via dissipative floor coverings or work areas

If it is required in certain production steps, temporary grounding of the vehicle support frame is permitted.

The following figure shows an example of a vehicle with a contactless energy transfer system:



9007199752696587

- | | |
|---|--------------------------------|
| [1] Dissipative floor coverings or work areas | [7] Motor |
| [2] Temporary ground connection | [8] Mobile converter |
| [3] Line cable | [9] Vehicle GND |
| [4] Dissipative or conductive track rollers or wheels | [10] Pick-up |
| [5] Vehicle support frame | [11] Conductive component part |
| [6] Drive and application controller | [12] Ground |

5.3 Electrical installation



⚠ WARNING

Electric shock due to faulty installation.

Severe or fatal injuries.

- Observe the safety notes in chapter "Safety Notes " (→ 7) during installation.

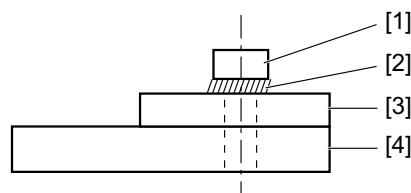
For technical reasons, the connection cables are not protected in the unit. Therefore, ensure protection of the connection cables when routing them.

5.3.1 THM10E/THM20E equipotential bonding

To prevent excessive contact voltage in the event of a fault, you must establish local equipotential bonding between the individual mobile electrical units.

Apply equipotential bonding as follows:

- Connect the flat pick-up and all additional units with the reference potential of the mobile unit in line with high-frequency guidelines. You require a wide-area, metallic contact between the unit housing and the unpainted body of the mobile unit.
- Establish low-impedance equipotential bonding between the pick-up and the metallic mounting plate (vehicle support frame) via a screw connection with a one-sided tooth lock washer at a retaining screw of the pick-up.



1362553995

- [1] Screw
- [2] Tooth lock washer
- [3] Mounting plate, connected to the central equipotential bonding
- [4] THM10E/20E pick-up with screw thread

5.3.2 Electrical installation of THM10E

Wiring diagram THM10E

The following table shows information about this connection:

Function		
Connection of the MOVITRANS® THM10E pick-up		
Connection type		
Han® Q 4/2, male		
Wiring diagram		
No.	Name	Function
1	THM Pole 1	MOVITRANS® pick-up pole 1
2	THM Pole 1	MOVITRANS® pick-up pole 1
3	THM Pole 2	MOVITRANS® pick-up pole 2
4	THM Pole 2	MOVITRANS® pick-up pole 2
11	n.c.	Not connected
12	n.c.	Not connected
PE	PA	Equipotential bonding

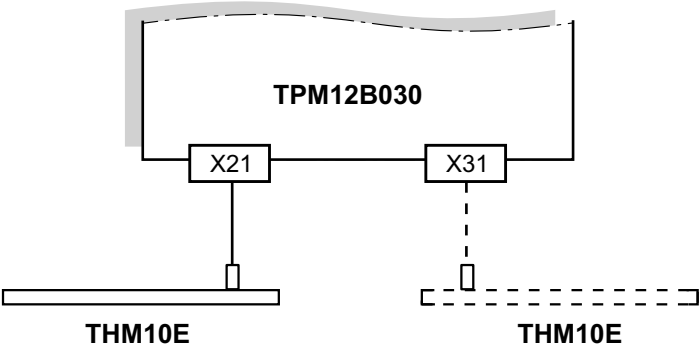


INFORMATION

For information on connection cables, refer to chapter "Connection cable THM10E" (→ 32).

TPM12B030 mobile converter

You can connect 1 or 2 THM10E flat pick-ups, with 1500 W nominal power each, to the TPM12B030 mobile converter.



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INFORMATION



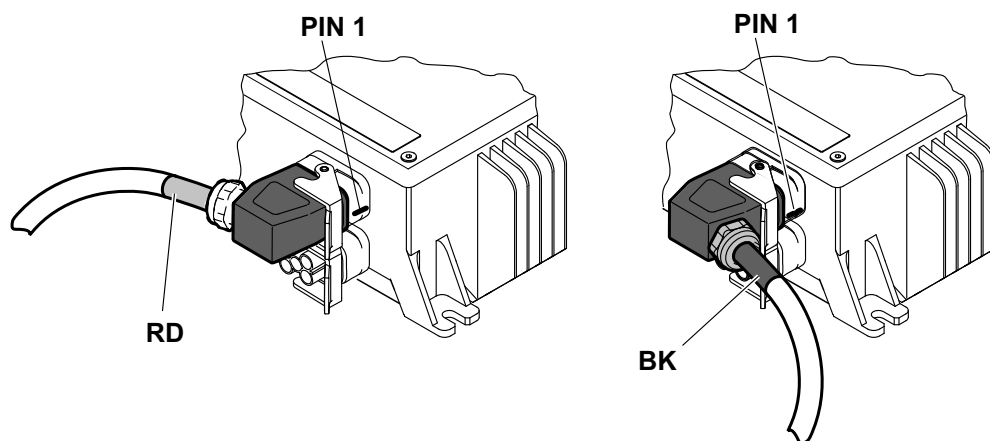
For more information, refer to the "MOVITRANS® TPM12B Mobile Converter" operating instructions.

Cable outlet direction

The pick-ups with angled plug connector are available with different cable outlet directions. Please specify the respective color code of the desired cable outlet direction when ordering:

Cable color code	
The cable outlet is positioned on the same side as PIN 1 of the connector insert.	Black (BK)
The cable outlet is positioned on the opposite side of PIN 1.	Red (RD)

The following figure illustrates the coding of the different cable outlet directions:



3060894475

INFORMATION



For more information on connection cables, refer to chapter "Technical data" (→ 30).

MOVIPRO® drive and application controller

You can also connect the THM10E pick-up to a MOVIPRO® drive and application controller.

INFORMATION



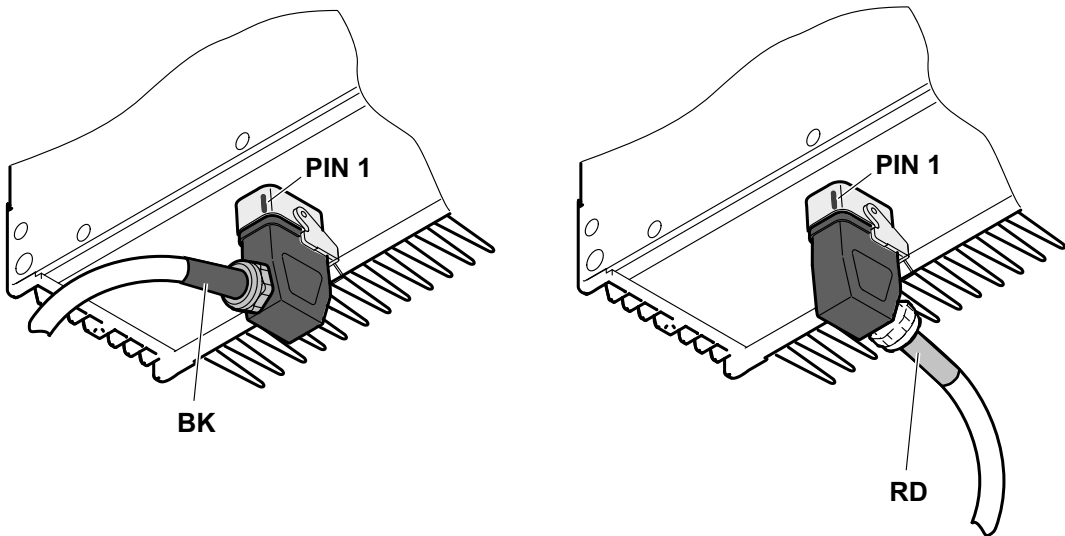
For more information, refer to the respective MOVIPRO® operating instructions.

Cable outlet direction

The pick-ups with angled plug connector are available with different cable outlet directions. Please specify the respective color code of the desired cable outlet direction when ordering:

Cable color code	
The cable outlet is positioned on the same side as PIN 1 of the connector insert.	Black (BK)
The cable outlet is positioned on the opposite side of PIN 1.	Red (RD)

The following figure illustrates the coding of the different cable outlet directions:



2891993611

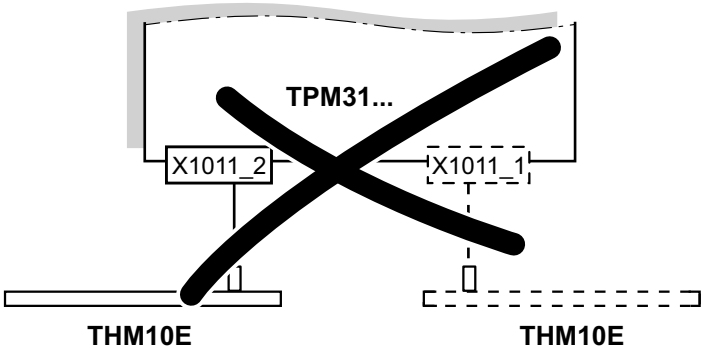
INFORMATION



For more information on connection cables, refer to chapter "Connection cable THM10E" (→ 32).

TPM31 mobile converter

The THM10E pick-up must not be connected to a TPM31 mobile converter.



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5.3.3 Electrical installation of THM20E

Wiring diagram THM20E

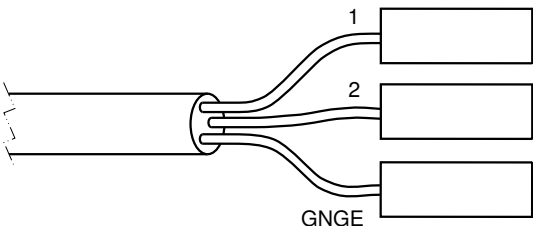


INFORMATION

For more information on connection cables, refer to chapter "THM20E connection cables" (→ 32).

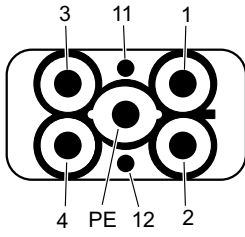
With flat connector

The following table shows information regarding the conductor assignment of the connection cable of the THM20E with tab connector:

Function			
Connection of the MOVITRANS® THM20E pick-up			
Connection type			
Tab connector			
Wiring diagram			
 2712453771			
No.	Conductor color	Name	Function
1	Black	THM Pole 1	MOVITRANS® pick-up pole 1
2	Black	THM Pole 2	MOVITRANS® pick-up pole 2
PE	Green-yellow	PA	Equipotential bonding

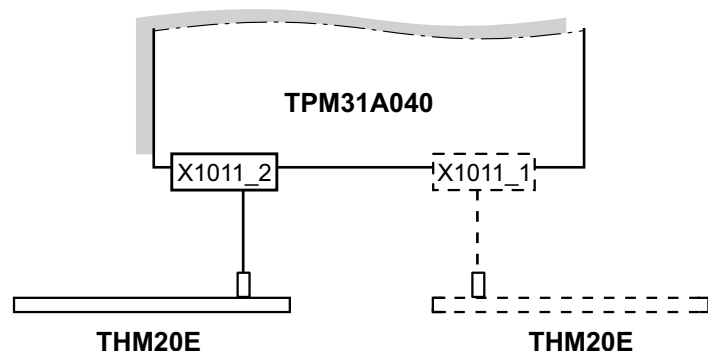
With angled and straight cable outlet

The following table shows information regarding the plug connectors of the connection cables of the THM20E with angled or straight cable outlet:

Function		
Connection of the MOVITRANS® THM20E pick-up		
Connection type		
Han® Q 4/2, male		
Wiring diagram		
		
No.	Name	Function
1	THM Pole 1	MOVITRANS® pick-up pole 1
2	n.c.	Not connected
3	THM Pole 2	MOVITRANS® pick-up pole 2
4	n.c.	Not connected
11	n.c.	Not connected
12	n.c.	Not connected
PE	PA	Equipotential bonding

TPM31 mobile converter

You can connect 1 or 2 THM20E flat pick-ups, with 2000 W nominal power each, to the TPM31A040 mobile converter.



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INFORMATION

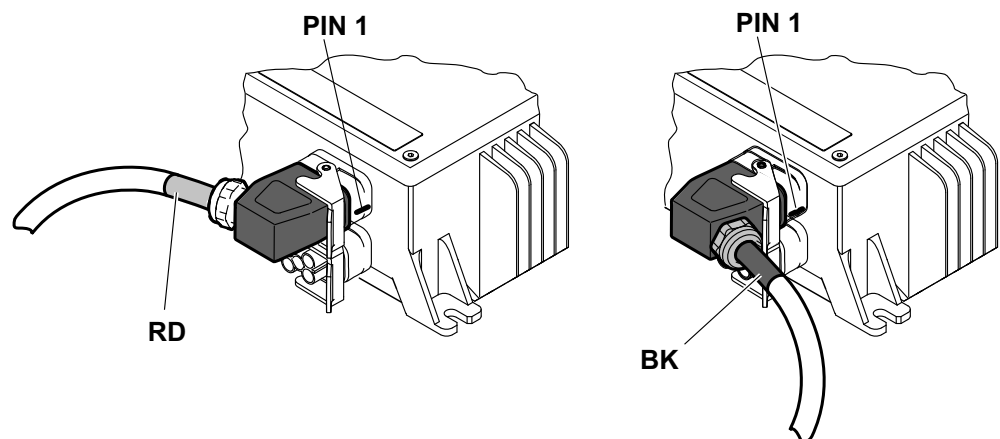
For more information, refer to the "MOVITRANS® line TPM31A Mobile Converter" operating instructions.

Cable outlet direction

The pick-ups with angled plug connector are available with different cable outlet directions. Please specify the respective color code of the desired cable outlet direction when ordering:

Cable color code	
The cable outlet is positioned on the same side as PIN 1 of the connector insert.	Black (BK)
The cable outlet is positioned on the opposite side of PIN 1.	Red (RD)

The following figure illustrates the coding of the different cable outlet directions:



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INFORMATION

For more information on connection cables, refer to chapter "Technical data" (→ 30).

MOVIPRO® drive and application controller

You can also connect the THM20E pick-up to a MOVIPRO® drive and application controller.

INFORMATION

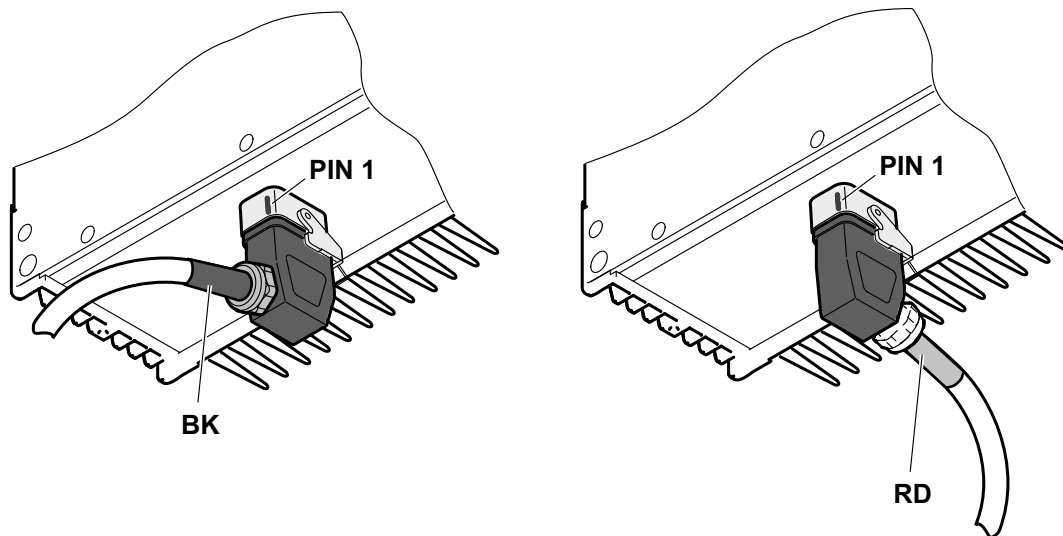
For more information, refer to the respective MOVIPRO® operating instructions.

Cable outlet direction

The pick-ups with angled plug connector are available with different cable outlet directions. Please specify the respective color code of the desired cable outlet direction when ordering:

Cable color code	
The cable outlet is positioned on the same side as PIN 1 of the connector insert.	Black (BK)
The cable outlet is positioned on the opposite side of PIN 1.	Red (RD)

The following figure illustrates the coding of the different cable outlet directions:



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INFORMATION



For more information on connection cables, refer to chapter "THM20E connection cables" (→ 32).

TPM12B mobile converter

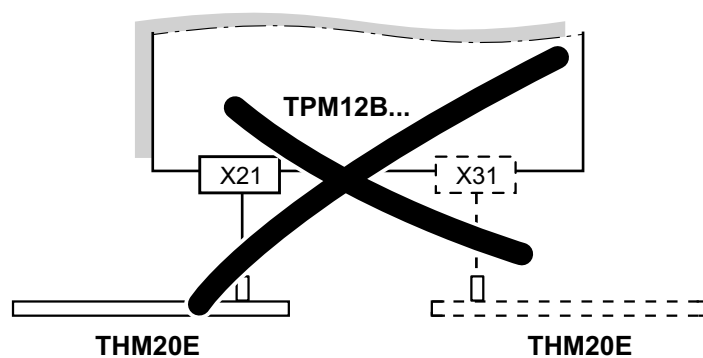
NOTICE



Damage to the components when the pick-up is connected to a TPM12B mobile converter.

Damage to property.

- The THM20E pick-up must not be connected to a TPM12B mobile converter.



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6 Technical data

6.1 Markings

The markings depend on the destination country selected when the order is placed. Therefore, combinations of the following markings are possible.

6.1.1 CE marking



The CE mark represents conformity with all standards and directives applicable to the product within the European Union. The applicable standards and directives are listed in the declaration of conformity or declaration of incorporation.

6.1.2 UL approval



The certification mark UL Listed on the nameplate confirms the UL and cUL approval (USA). cUL is equal to the approval according to CSA.

6.1.3 UKCA mark



The UKCA mark states the compliance with British guidelines.

Compliance with British guidelines is confirmed by the symbol on the nameplate and in the declaration of conformity or declaration of incorporation.

6.2 Basic unit

6.2.1 THM10E basic unit

The following table shows the general data for the THM10E pick-up:

Environmental conditions		
Climate in accordance with EN 60721-3-3		3K4
Mechanical in accordance with EN 60721-3-3		3M4
Chemical in accordance with EN 60721-3-3		3C2
Ambient temperature	ϑ_{amb}	-25 °C – +40 °C (-13 °F – +104 °F)
Storage and transport temperature	ϑ_T	-25 °C – +80 °C (-13 °F – +176 °F)
Degree of protection in accordance with DIN EN 60529		IP65
Pollution class		2 in accordance with IEC 60664-1 (VDE 0110-1)
Electrical data		
Line cable nominal current	I_N	AC 85 A
Operating frequency	f_{IN}	25 kHz
Maximum nominal output voltage	V_A	AC 550 V
Maximum nominal output current	I_A	AC 33 A

Electrical data		
Nominal output power	P_N	1500 W ¹⁾
AC 85 A Line cable nominal current		
Nominal output power	P_N	950 W ¹⁾
AC 60 A Line cable nominal current		
Nominal power loss	P_V	60 W
Inductance		103 µH
Thermal transition resistance of aluminum carrier plate		Ca. 1 K/W horizontal position
Overvoltage category		II in accordance with IEC 60664-1

1) Compare section "Transmittable power" in this chapter.

Mechanical data	
Dimensions	See chapter "THM10E dimension drawing" (→ 47)
Mass (without connection cable)	7.2 kg
Tightening torque for retaining screws	7 Nm

6.2.2 THM20E basic unit

The following table shows the general data for the THM20E pick-up:

Environmental conditions		
Climate in accordance with EN 60721-3-3		3K4
Mechanical in accordance with EN 60721-3-3		3M4
Chemical in accordance with EN 60721-3-3		3C2
Ambient temperature	ϑ_{amb}	0 °C – +40 °C (+32 °F – +104 °F)
Storage and transport temperature	ϑ_{stor}	0 °C – +80 °C (+32 °F – +176 °F)
Degree of protection		IP65
Pollution class		2 in accordance with IEC 60664-1 (VDE 0110-1)

Electrical data		
Line cable nominal current	I_N	AC 60 – 85 A
Operating frequency	f_{IN}	25 kHz
Nominal output voltage	V_A	AC 350 V
Nominal output current	I_A	AC 6 A
Nominal output power	P_N	2000 W ¹⁾
Peak output power	P_{Max}	See chapter "Transmittable power THM20E" (→ 36)
Nominal power loss	P_V	20 W
Inductance		5.79 mH

Electrical data	
Capacitance	7 nF
Overvoltage category	II in accordance with IEC 60664-1

1) Compare section "Transmittable mean power of THM20E" in this chapter.

Mechanical data	
Nominal distance between THM20E and line cable	x 15 mm ¹⁾
Dimensions	See "THM20E dimension drawing" (→ 48)
Mass (without connection cable)	11.2 kg
Tightening torque for retaining screws	3.5 Nm

1) Compare section "Mounting" in chapter "Mechanical installation of THM20E".

6.3 Connection cable

6.3.1 Connection cable THM10E

INFORMATION



For additional cable information, refer to the catalogs of the cable manufacturer "LAPP KABEL".

INFORMATION



The connection cable is not suitable for use in a cable carrier.

SEW-EURODRIVE offers the following prefabricated cables with connectors:

Connection cable	
Cable type	5-core cable, Ölflex® 191 5G2,5
Cable length	max. 6 m (depending on order)
Smallest bending radius	≥ 60 mm
Cable cross section	5 × 2.5 mm ²
Connector type	Han® Q 4/2, male

6.3.2 THM20E connection cables

SEW-EURODRIVE offers the following prefabricated cables with connectors:

Connection cable		
Cable type	Lapp, Ölflex-FD 891 3G1,5 cable	Leoni ERK013466 3G1.5
Halogen-free	No	Yes
Cable length	max. 6 m (depending on order)	
Smallest bending radius	≥ 60 mm	≥ 40 mm

Connection cable		
Cable cross section	3 × 1.5 mm ²	
Connector type	HAN Q 4/2, male, or tab connector, cable configurable (straight, angled)	

INFORMATION



For additional cable information, refer to the catalogs of the cable manufacturers "Lapp Kabel" or "Leoni Kabel".

Depending on the configuration, the cable outlet of the connection cable is straight or angled. For further information, refer to the chapter "THM20E scope of delivery" (→ 13).

6.4 Transmittable power

6.4.1 Transmittable power THM10E

The transmittable power depends on the following geometric components:

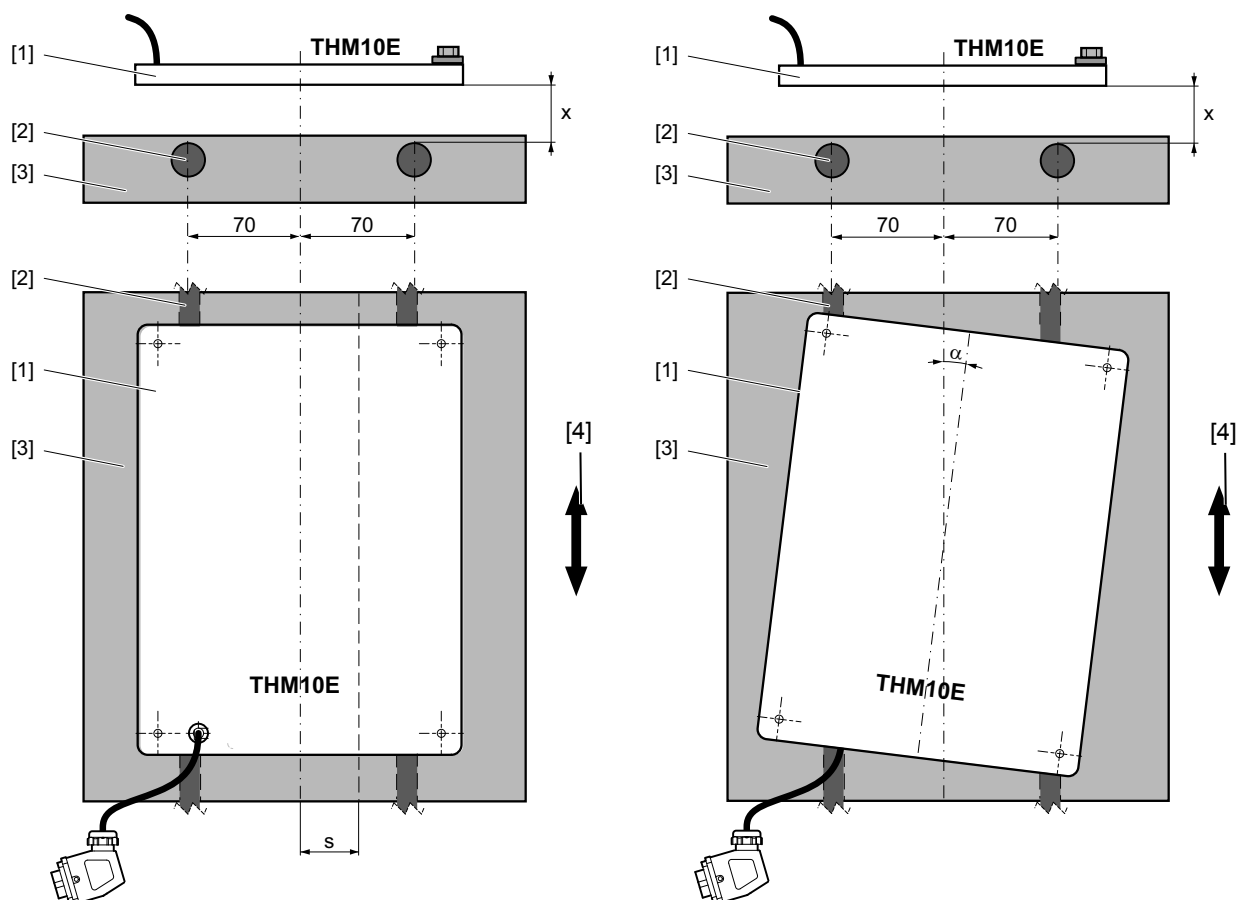
- Distance x between line cable and THM10E pick-up
- Lateral offset s
- Angular offset α

The mechanical air gap is smaller than the distance x by the covering of the line cable (3 – 5 mm) and any surface irregularities.

The lateral offset s is the shift of the THM10E pick-up from its center parallel to the centerline of the two line cables.

The angular offset α is the angle between the centerline of the THM10E pick-up and the centerline of the two line cables. The center of rotation is at the point of intersection of the two diagonals of the THM10E pick-up.

The following figures illustrate the described geometric components.



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- x Distance between TLS line cable and THM10E pick-up
s Lateral offset
α Angular offset

- [1] THM10E pick-up
[2] TLS line cable
[3] e.g. concrete floor
[4] Direction of movement

The following table shows the transmittable power as a function of distance x , lateral offset s and angular offset α . The transmittable power was measured with the TP-M12B030 mobile converter for a few selected parameters with the following line cable currents to give you some examples:

- $I = 85 \text{ A}$
- $I = 60 \text{ A}$

Distance x	Lateral off- set s	Angular off- set α	Transmittable power	
			at $I = 85 \text{ A}$	at $I = 60 \text{ A}$
[mm]	[mm]	[°]	[W]	[W]
10	0	0	1500	950
10	10	0	1500	950
10	20	0	1500	900

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Distance x	Lateral off-set s	Angular off-set α	Transmittable power	
			at I = 85 A	at I = 60 A
[mm]	[mm]	[°]	[W]	[W]
10	30	0	1250	640
10	40	0	940	400
10	50	0	600	150
14	0	0	1500	850
14	10	0	1500	850
14	20	0	1300	720
14	30	0	1100	590
14	40	0	850	210
14	50	0	550	100
18	0	0	1500	770
18	10	0	1500	770
18	20	0	1200	620
18	30	0	985	450
18	40	0	800	140
18	50	0	500	40
10	0	10	1300	950
10	0	20	1250	730
10	0	30	900	250
10	0	40	465	25
14	0	10	1400	670
14	0	20	1200	570
14	0	30	800	150
14	0	40	450	0
18	0	10	1250	550
18	0	20	1050	440
18	0	30	700	56
18	0	40	370	0

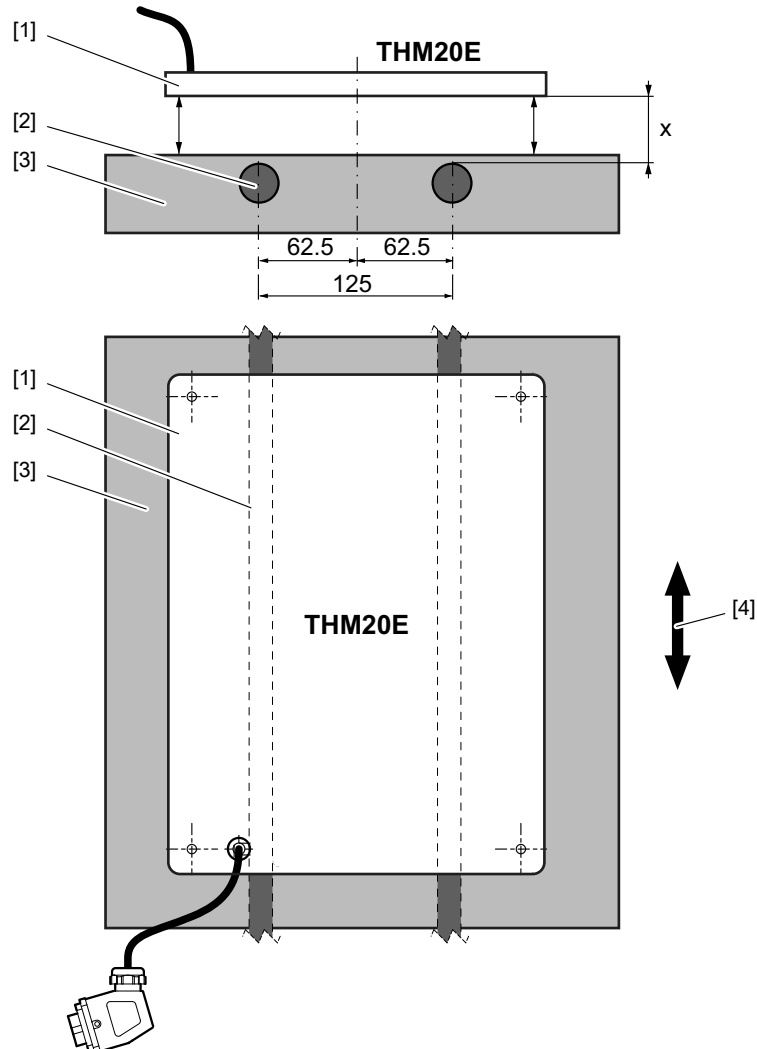
INFORMATION



Further measured values are available on request.

6.4.2 Transmittable power THM20E

The transmittable power is dependent on the distance x between the line cable and the THM20E pick-up. The mechanical air gap is smaller than the distance x by the covering of the line cable (3 – 5 mm) and any surface irregularities.



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x Distance between TLS line cable and THM20E pick-up

- [1] THM20E pick-up
- [2] TLS line cable
- [3] E.g. concrete floor
- [4] Direction of movement

Notes on pick-up characteristic curves

During project planning, you must determine the continuous power P_2 (= effective power) and the peak power P_1 of the pick-up and compare these values with the characteristic curves. In order to do this, you need to know the installation conditions of the pick-up.

Installation conditions

- Installation condition 1 (E_1):

- The line cable is laid in the floor.
- The horizontal surface of the pick-up can give off heat via free convection (→ installation correction factor $f_{E1} = 1.0$).
- Installation condition 2 (E_2):
 - The line cable is laid in the floor.
 - Slight air movement (0.5 ms^{-1}) over the entire surface of the pick-up (→ installation correction factor $f_{E2} = 1.25$).

Determining the peak power

Which peak power P_1 can you expect with a given continuous power P_2 ?

- You can determine the temperature increase $\Delta\vartheta$ compared to the environment using the temperature increase factor k_1 and the continuous power P_2 of the pick-up:

$$\Delta\vartheta = \frac{k_1 \times P_2}{1000}$$
- You can then use the ambient temperature ϑ to determine the pick-up temperature ϑ_K :

$$\vartheta_K = \vartheta + \Delta\vartheta$$

Result:

- If the pick-up temperature ϑ_K is below 65°C , the peak power P_1 is available.
- If the pick-up temperature ϑ_K is between 65°C and 85°C , you can interpolate linearly between peak power and continuous power.
- If the pick-up temperature ϑ_K is $> 85^\circ\text{C}$, you will need to use a different characteristic curve with a lower temperature rise factor k_1 .

Determining the permitted continuous power

Which continuous power P_2 is permitted to ensure a given peak power P_1 ?

- First, you have to use a characteristic curve where values of the first section are greater than or equal to the required peak power P_1 . Follow the characteristic curve with the value of the ambient temperature ϑ to find the temperature increase factor k_1 . You can then use the following formula to determine the permitted continuous power P_2 in [W] for the installation condition E_1 :

$$P_2(E_1) = \frac{(65^\circ\text{C} - \vartheta)}{k_1 \times 1000}$$

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- In the case of installation condition 2, you can use the installation correction factor f_{E2} to determine the permitted continuous power P_2 :

$$P_2(E_2) = f_{E2} \times P_2(E_1)$$

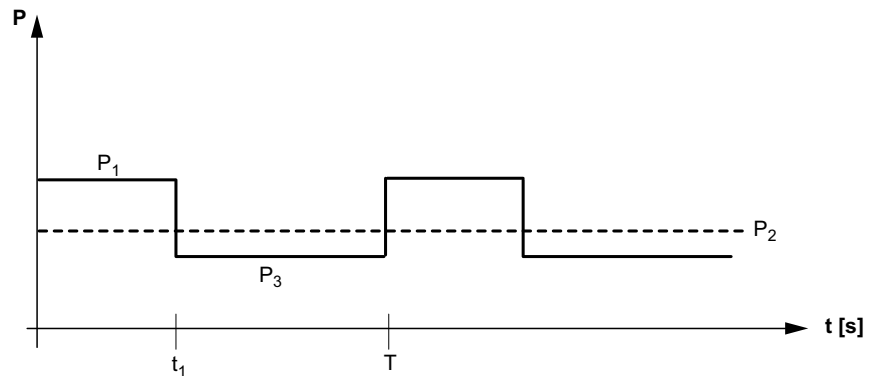
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Definition of parameters and influencing factors

- Line cable current I_L [A]
- Distance between the bottom of the pick-up and the top of the line cable x [mm]
- Peak power of the pick-up P_1 [W]
- Continuous power of the pick-up P_2 [W]
- Ambient temperature ϑ [$^\circ\text{C}$]

- Installation correction factor f_{E1} , f_{E2} , depending on the installation conditions E_1 , E_2
- Temperature increase $\Delta\vartheta$ of the pick-up compared to the ambient temperature ϑ

The following figure shows the continuous power P_2 of the pick-up:



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The continuous power of the pick-up can be calculated using the following formula:

$$P_2 = \frac{P_1 \times t_1 + P_3 (T - t_1)}{T} \text{ with } t_1 < 400 \text{ s}$$

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P_1 = Peak power of the pick-up

P_2 = Continuous power of the pick-up

P_3 = Minimum power of the pick-up

t_1 = Time (here: $t_1 < 400$ s) during which the peak power is present at the pick-up

T = Period duration

Peak power P_1 as a function of continuous power P_2

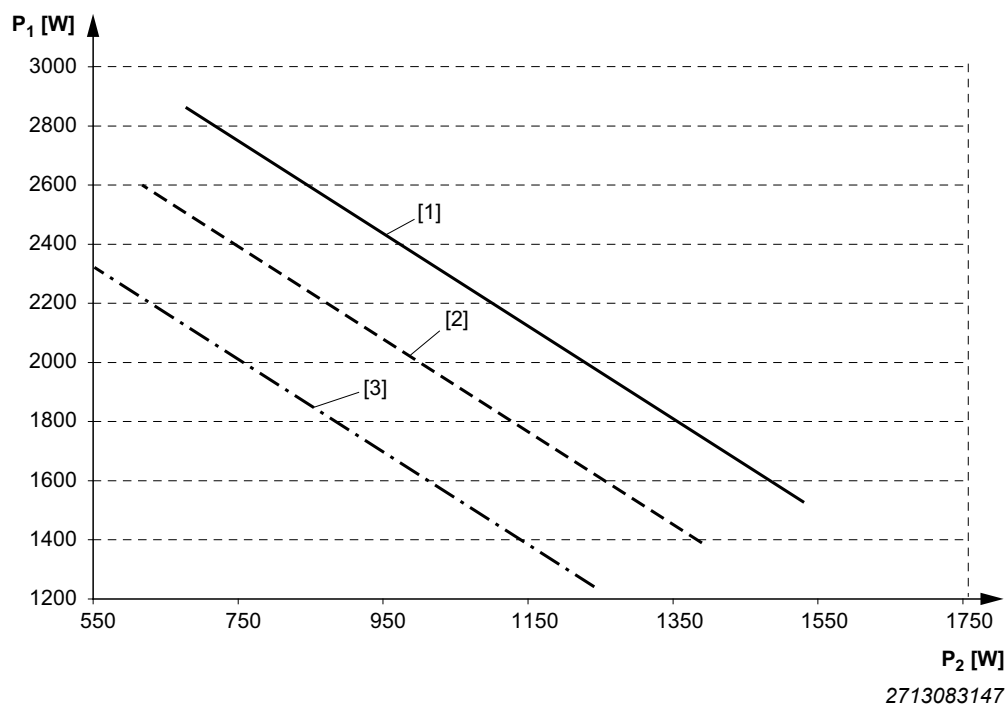
The following characteristic curves show the peak power P_1 of the pick-up as a function of the continuous power P_2 depending on the following parameters:

- Line cable current I_L [A]
- Line cable distance x [mm]

$I_L = 60 \text{ A}$, $\vartheta = 45 \text{ °C}$, E_1

The following figure shows the peak power P_1 as a function of continuous power P_2 with the following values:

- Line cable current $I_L = 60 \text{ A}$
- Ambient temperature $\vartheta = 45 \text{ °C}$
- Installation condition = E_1



[1] $x = 10 \text{ mm}$

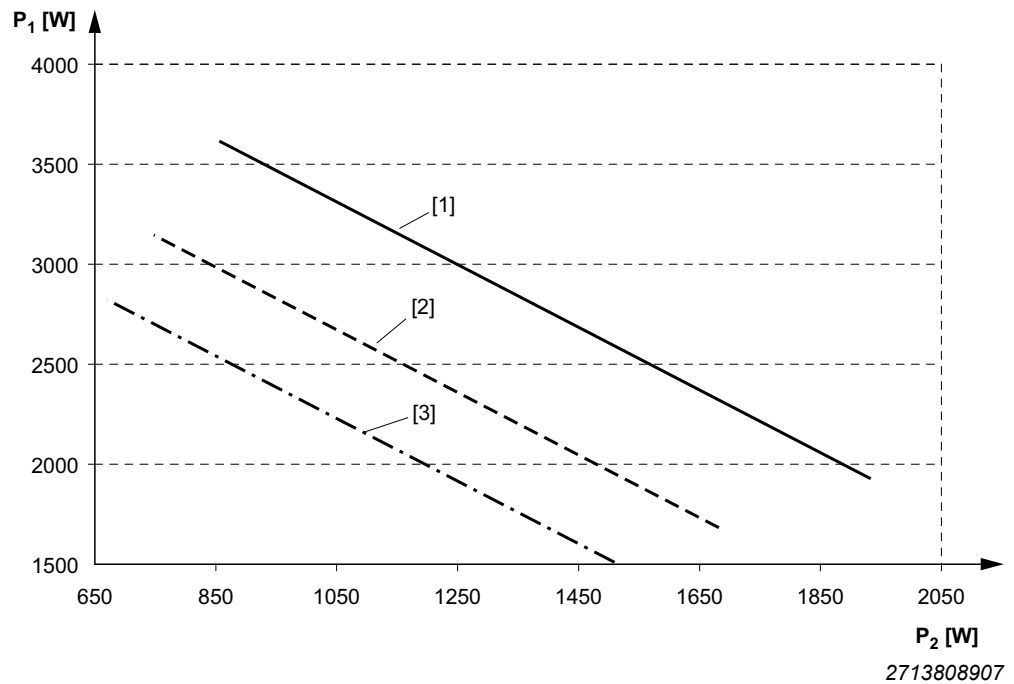
[2] $x = 15 \text{ mm}$

[3] $x = 20 \text{ mm}$

$I_L = 75 \text{ A}$, $\vartheta = 45 \text{ °C}$, E_1

The following figure shows the peak power P_1 as a function of continuous power P_2 with the following values:

- Line cable current $I_L = 75 \text{ A}$
- Ambient temperature $\vartheta = 45 \text{ °C}$
- Installation condition = E_1

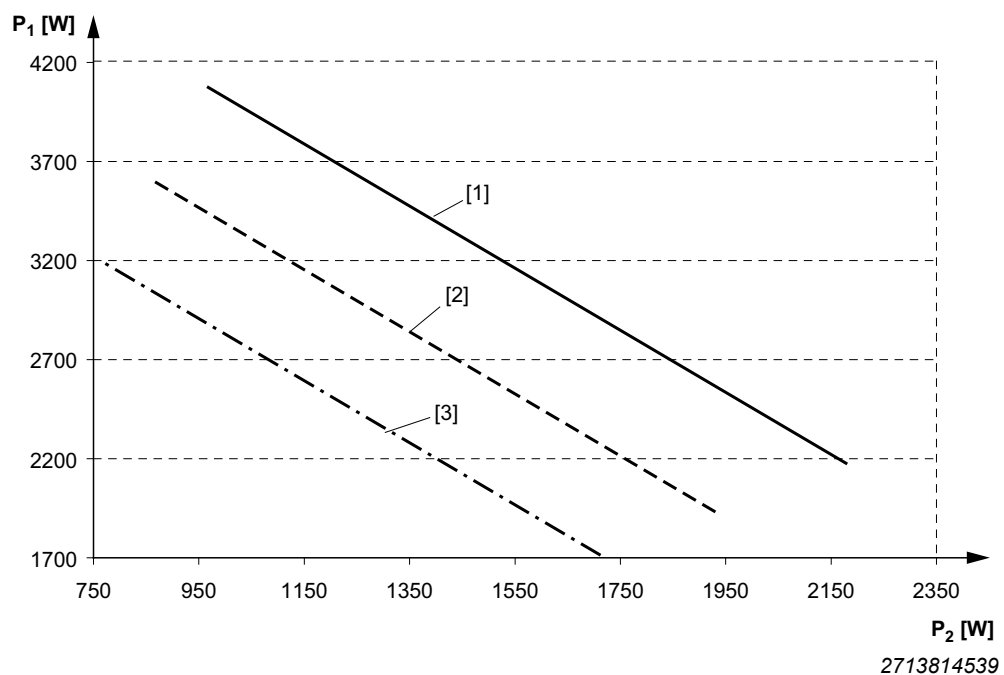


- [1] $x = 10 \text{ mm}$
 [2] $x = 15 \text{ mm}$
 [3] $x = 20 \text{ mm}$

$I_L = 85 \text{ A}$, $\vartheta = 45 \text{ }^\circ\text{C}$, E_1

The following figure shows the peak power P_1 as a function of continuous power P_2 with the following values:

- Line cable current $I_L = 85 \text{ A}$
- Ambient temperature $\vartheta = 45 \text{ }^\circ\text{C}$
- Installation condition = E_1



[1] $x = 10 \text{ mm}$

[2] $x = 15 \text{ mm}$

[3] $x = 20 \text{ mm}$

Pick-up characteristic curves

The following characteristic curves show the transmittable power P_4 of the pick-up as a function of the following values:

- Ambient temperature ϑ [°C]
- Time under load t [s]
- Line cable current I_L [A]
- Line cable distance x [mm]
- Temperature increase factor k_1

INFORMATION

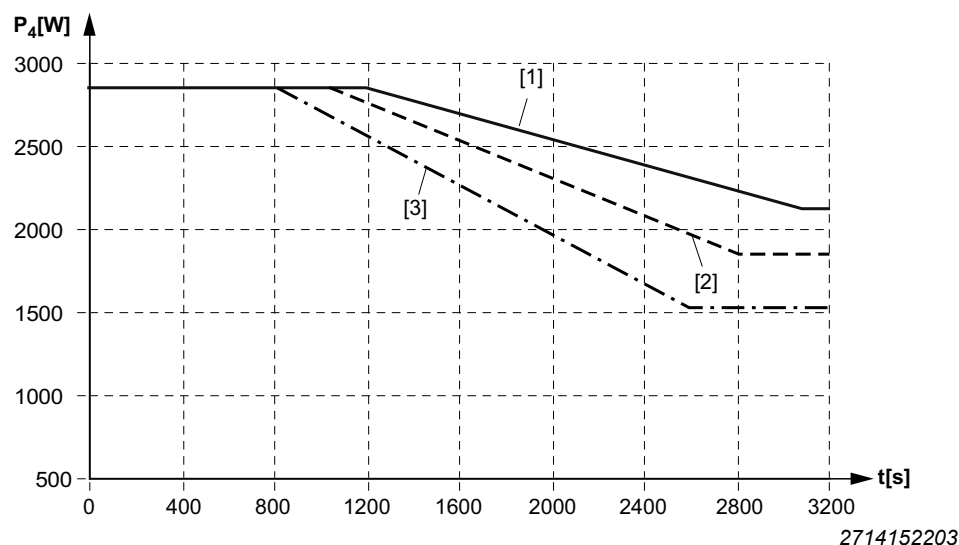


- The first inflection point of the characteristic curves occurs at a pick-up temperature ϑ_K of 65 °C. After this point, the pick-up power P_4 decreases with increasing pick-up temperature ϑ_K in almost linear fashion with the pick-up temperature ϑ_K .
- The second inflection point of the characteristic curves occurs at the maximum pick-up temperature ϑ_K of 85 °C. At this temperature, the maximum continuous power P_2 is reached at the corresponding ambient temperature. The temperature increase factor k_1 specifies how high the temperature increase $\Delta\vartheta$ is compared to the ambient temperature ϑ , based on the transmitted continuous power P_2 .
- The temperature values ϑ in the characteristic curves relate to the installation condition E_1 . For more information, refer to chapter "Notes on pick-up characteristic curves" (→ 36).

Transmittable power at $I_L = 60 \text{ A}$, $x = 10 \text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 60 \text{ A}$
- Line cable distance $x = 10 \text{ mm}$

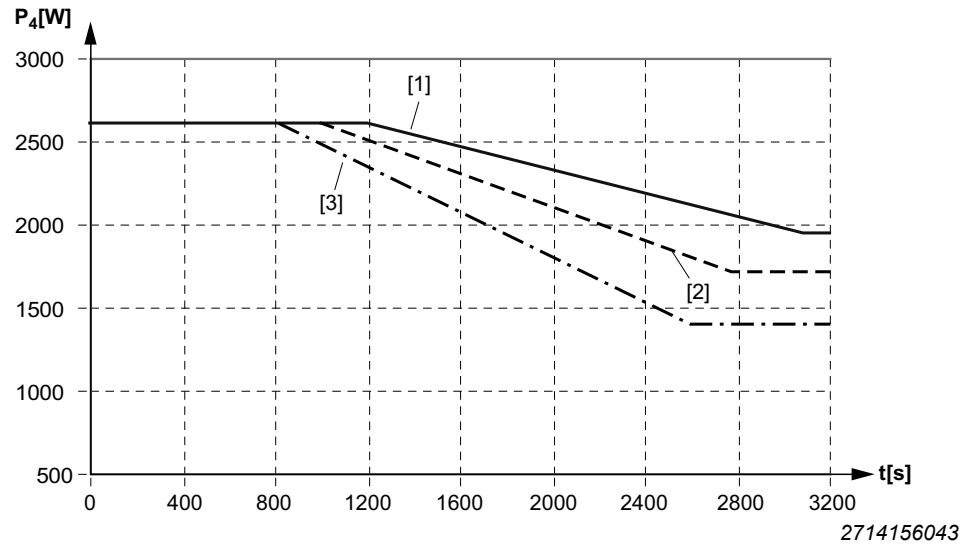


- [1] $\vartheta = 20\text{ °C/k1} = 32$
- [2] $\vartheta = 30\text{ °C/k1} = 29.4$
- [3] $\vartheta = 45\text{ °C/k1} = 32.6$

Transmittable power at $I_L = 60\text{ A}$, $x = 15\text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 60\text{ A}$
- Line cable distance $x = 15\text{ mm}$

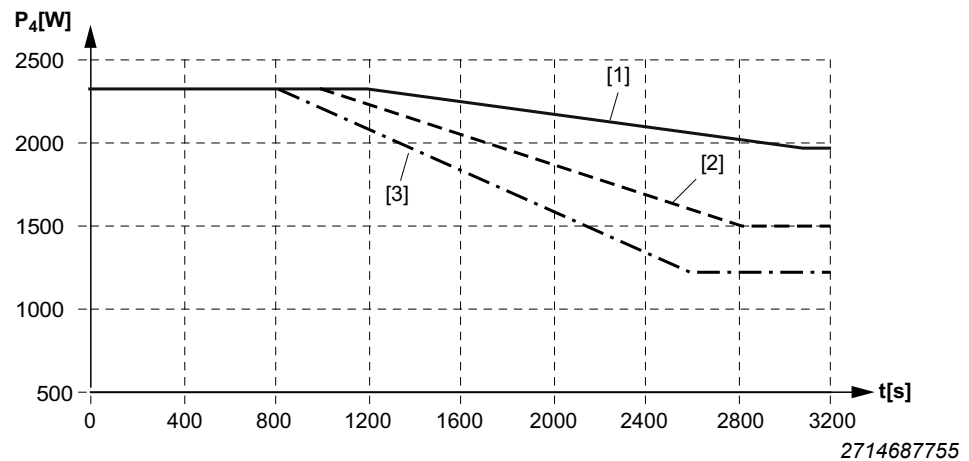


- [1] $\vartheta = 20\text{ °C/k1} = 35.3$
- [2] $\vartheta = 30\text{ °C/k1} = 32.4$
- [3] $\vartheta = 45\text{ °C/k1} = 35.9$

Transmittable power at $I_L = 60\text{ A}$, $x = 20\text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 60\text{ A}$
- Line cable distance $x = 20\text{ mm}$



- [1] $\vartheta = 20\text{ °C/k1} = 39.5$

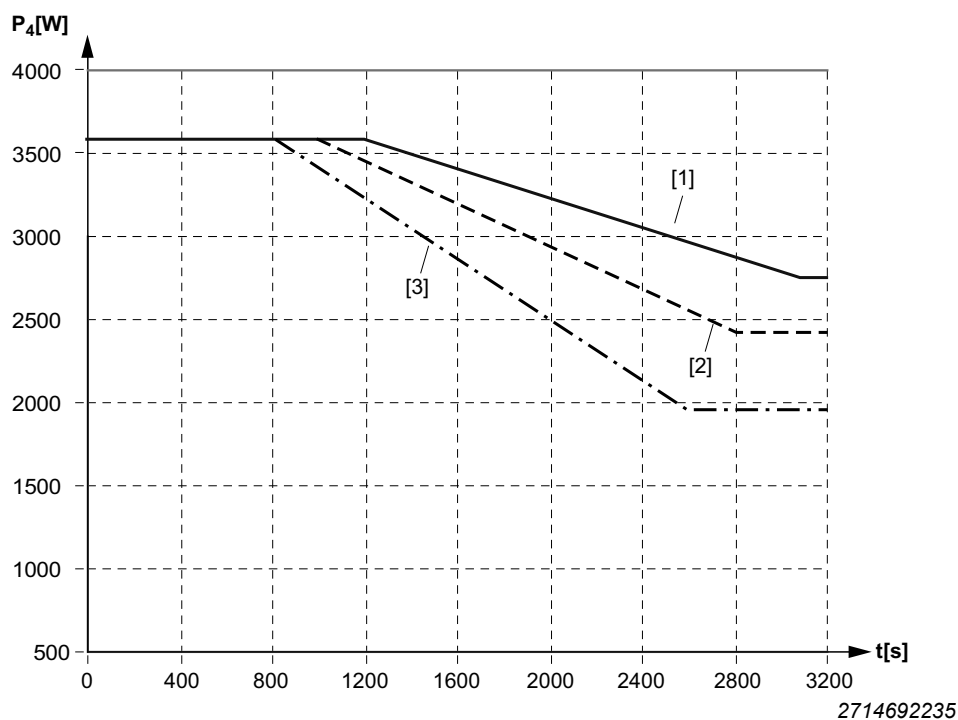
$$[2] \quad \vartheta = 30 \text{ }^{\circ}\text{C/k1} = 36.3$$

$$[3] \quad \vartheta = 45 \text{ }^{\circ}\text{C/k1} = 40.2$$

Transmittable power at $I_L = 75 \text{ A}$, $x = 10 \text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 75 \text{ A}$
- Line cable distance $x = 10 \text{ mm}$



$$[1] \quad \vartheta = 20 \text{ }^{\circ}\text{C/k1} = 25.4$$

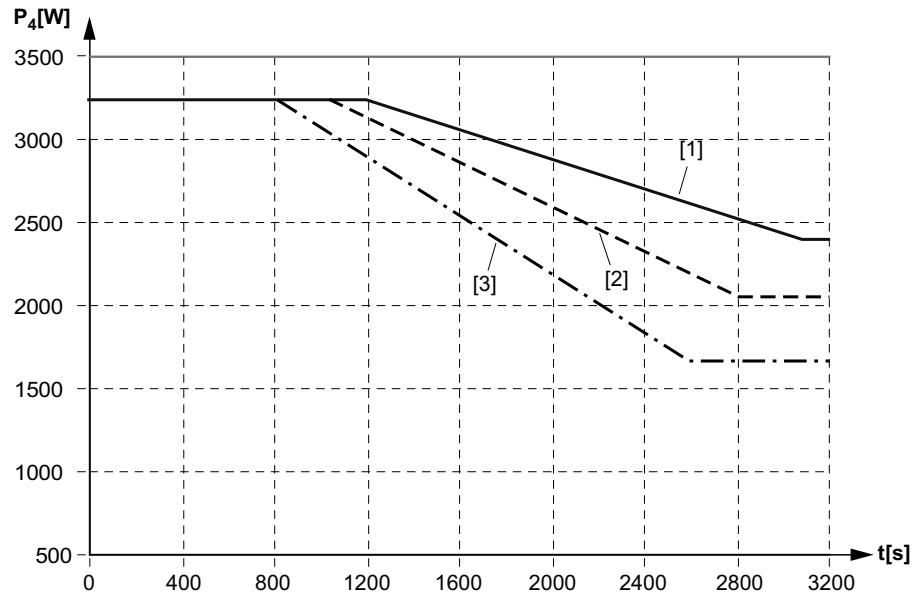
$$[2] \quad \vartheta = 30 \text{ }^{\circ}\text{C/k1} = 23.3$$

$$[3] \quad \vartheta = 45 \text{ }^{\circ}\text{C/k1} = 25.8$$

Transmittable power at $I_L = 75 \text{ A}$, $x = 15 \text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 75 \text{ A}$
- Line cable distance $x = 15 \text{ mm}$



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[1] $\vartheta = 20\text{ }^{\circ}\text{C/k1} = 29.2$

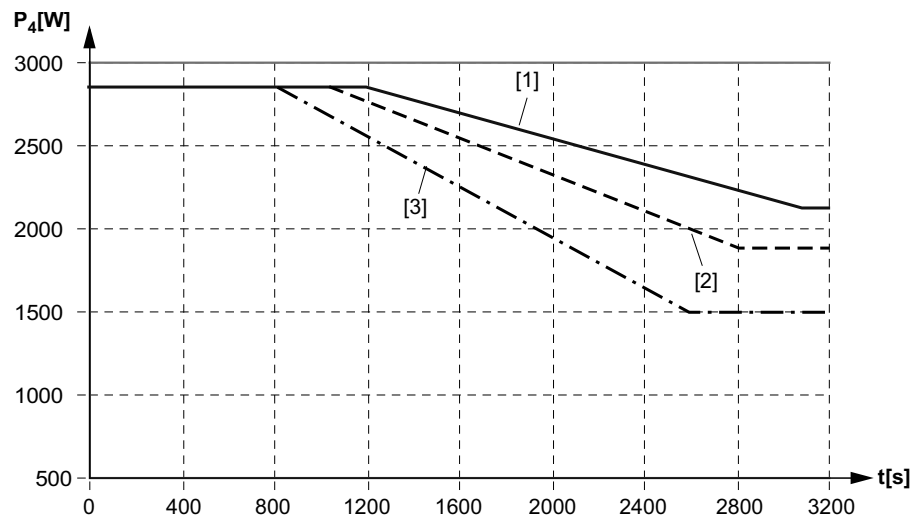
[2] $\vartheta = 30\text{ }^{\circ}\text{C/k1} = 26.8$

[3] $\vartheta = 45\text{ }^{\circ}\text{C/k1} = 29.7$

Transmittable power at $I_L = 75\text{ A}$, $x = 20\text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 75\text{ A}$
- Line cable distance $x = 20\text{ mm}$



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[1] $\vartheta = 20\text{ }^{\circ}\text{C/k1} = 32.5$

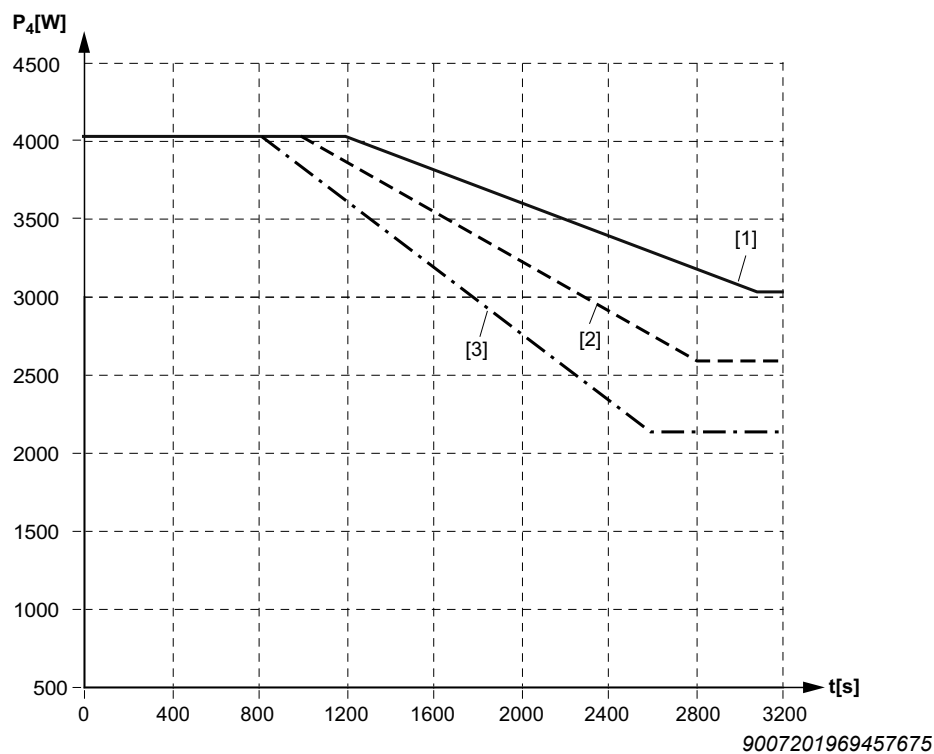
[2] $\vartheta = 30\text{ }^{\circ}\text{C/k1} = 29.8$

[3] $\vartheta = 45\text{ }^{\circ}\text{C/k1} = 33.1$

Transmittable power at $I_L = 85 \text{ A}$, $x = 10 \text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 85 \text{ A}$
- Line cable distance $x = 10 \text{ mm}$

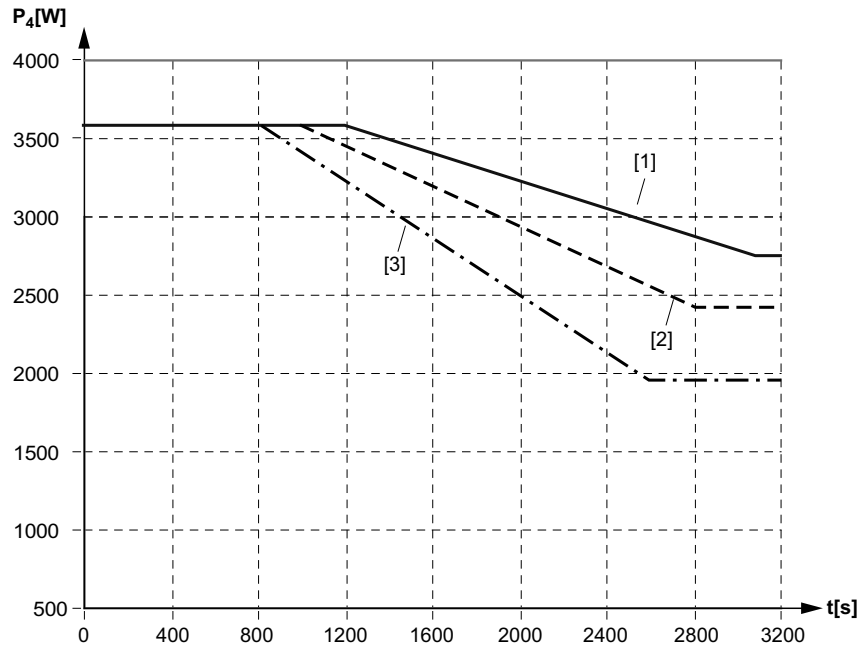


- [1] $\vartheta = 20 \text{ °C/k1} = 22.5$
 [2] $\vartheta = 30 \text{ °C/k1} = 20.7$
 [3] $\vartheta = 45 \text{ °C/k1} = 22.9$

Transmittable power at $I_L = 85 \text{ A}$, $x = 15 \text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 85 \text{ A}$
- Line cable distance $x = 15 \text{ mm}$



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[1] $\vartheta = 20\text{ °C}/k_1 = 25.4$

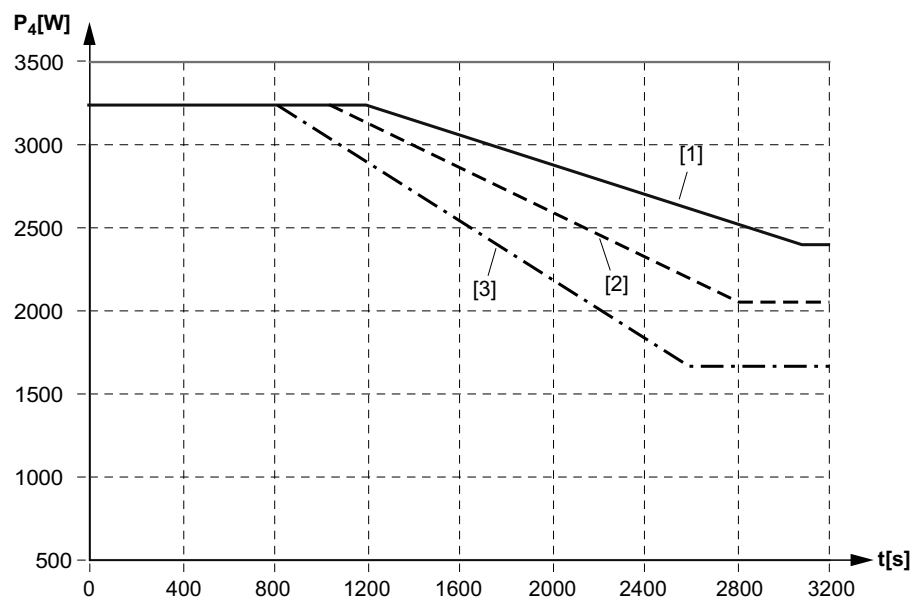
[2] $\vartheta = 30\text{ °C}/k_1 = 23.3$

[3] $\vartheta = 45\text{ °C}/k_1 = 22.9$

Transmittable power at $I_L = 85\text{ A}$, $x = 20\text{ mm}$

The following figure shows the transmittable power with the following values:

- Line cable current $I_L = 85\text{ A}$
- Line cable distance $x = 20\text{ mm}$



2714731915

[1] $\vartheta = 20\text{ °C}/k_1 = 28.6$

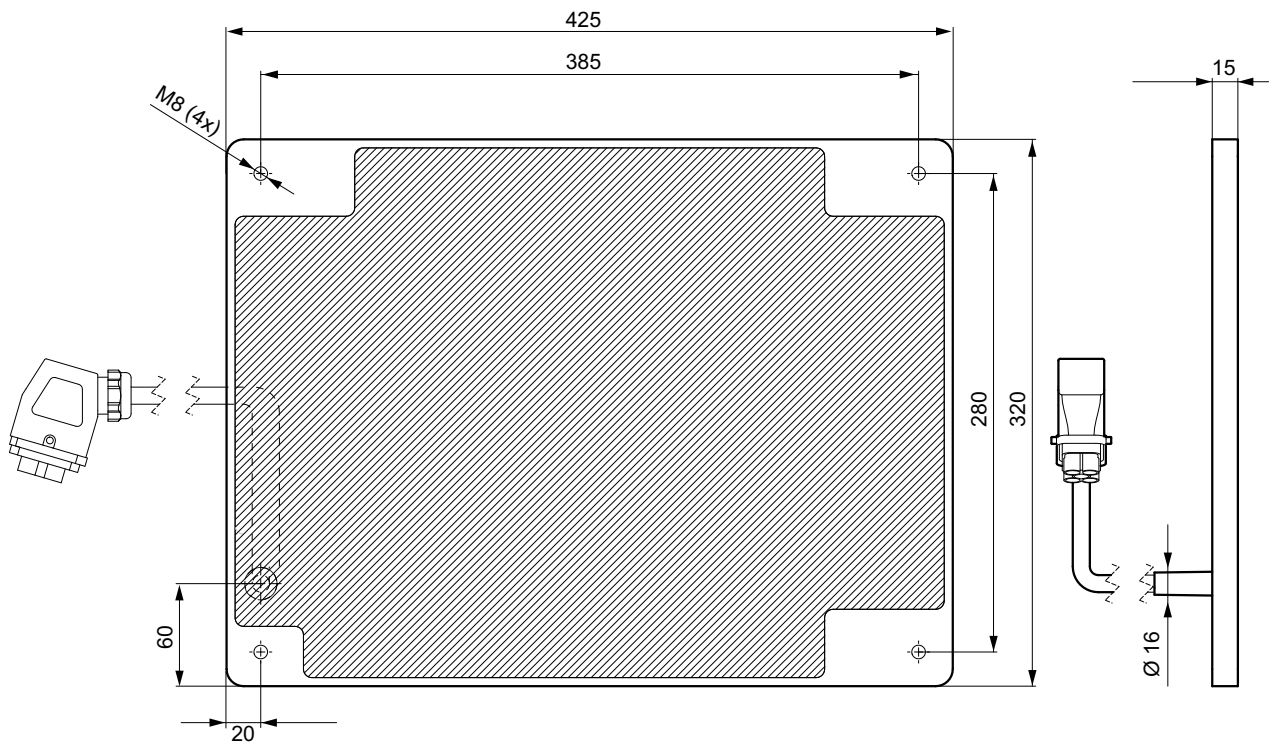
[2] $\vartheta = 30\text{ °C}/k_1 = 26.3$

$$[3] \quad \vartheta = 45 \text{ °C/k1} = 29.1$$

6.5 Dimension drawings

6.5.1 THM10E dimension drawing

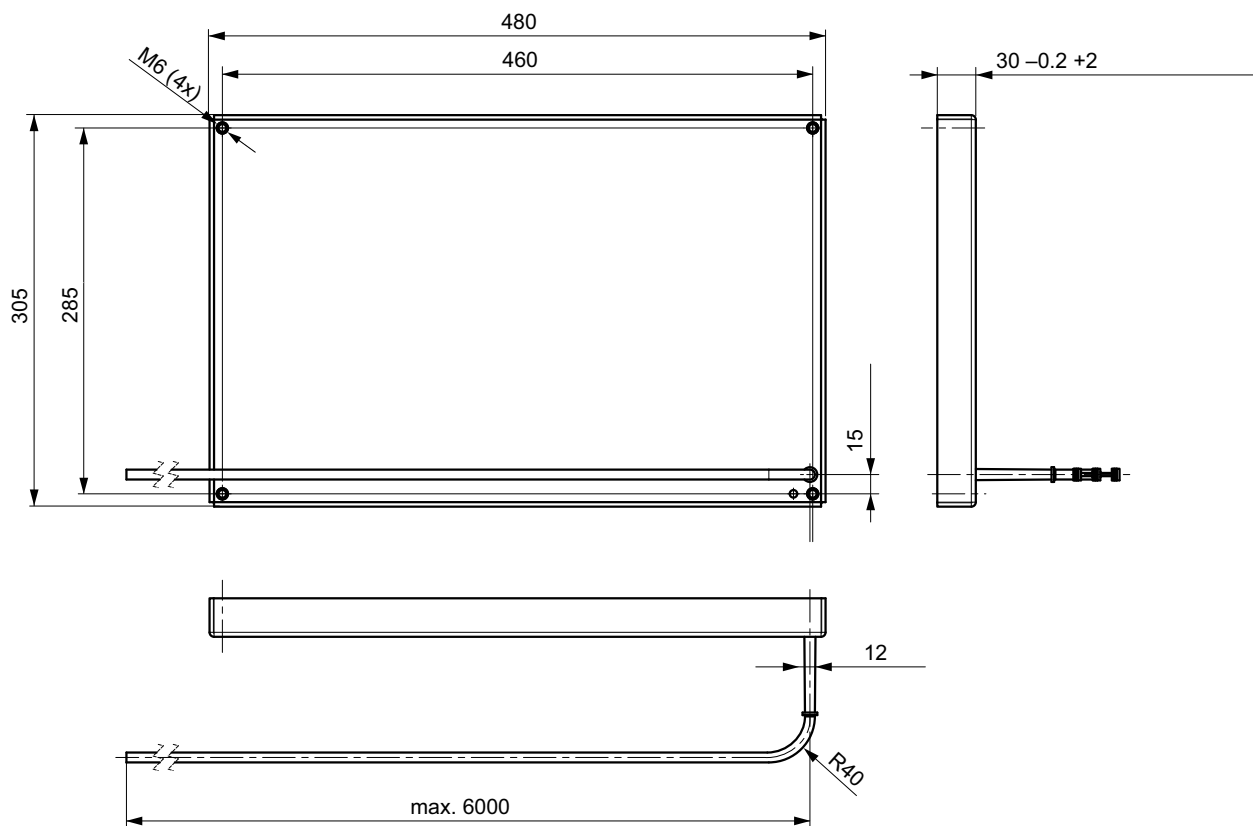
The following figure shows the dimensions of the THM10E pick-up in mm:



9007200787145739

6.5.2 THM20E dimension drawing

The following figure shows the dimensions of the THM20E pick-up in mm:



9007201967255051

7 Address list**Argentina**

Assembly Sales	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Ruta Panamericana Km 37.5, Lote 35 (B1619IEA) Centro Industrial Garín Prov. de Buenos Aires	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 http://www.sew-eurodrive.com.ar sewar@sew-eurodrive.com.ar
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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

Austria

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

Sales	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED 345 DIT Road East Rampura Dhaka-1219, Bangladesh	Tel. +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
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Belarus

Sales	Minsk	Foreign unitary production enterprise SEW- EURODRIVE Novodvorskiy village council 145 223016, Minsk region	Tel. +375 17 319 47 56 / +375 17 378 47 58 Fax +375 17 378 47 54 http://www.sew-eurodrive.by sew@sew-eurodrive.by
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Belgium

Assembly Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.be info@sew-eurodrive.be
Service Competence Center	Industrial Gears	SEW-EURODRIVE n.v./s.a. Rue du Parc Industriel, 31 6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be info@sew.be

Brazil

Production Sales Service	São Paulo	SEW-EURODRIVE Brasil Ltda. Estrada Municipal José Rubim, 205 – Rodovia Santos Dumont Km 49 Indaiatuba – 13347-510 – SP	Tel. +55 19 3835-8000 sew@sew.com.br
Assembly Sales Service	Rio Claro	SEW-EURODRIVE Brasil Ltda. Rodovia Washington Luiz, Km 172 Condomínio Industrial Conpark Caixa Postal: 327 13501-600 – Rio Claro / SP	Tel. +55 19 3522-3100 Fax +55 19 3524-6653 montadora.rc@sew.com.br
	Joinville	SEW-EURODRIVE Brasil Ltda. Jvl / Ind Rua Dona Francisca, 12.346 – Pirabeiraba 89239-270 – Joinville / SC	Tel. +55 47 3027-6886 Fax +55 47 3027-6888 filial.sc@sew.com.br

Bulgaria

Sales	Sofia	BEVER-DRIVE GmbH Bogdanovetz Str.1 1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg
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Cameroon			
Sales	Douala	SEW-EURODRIVE SARLU Ancienne Route Bonabéri P.O. Box B.P 8674 Douala-Cameroun	Tel. +237 233 39 12 35 Fax +237 233 39 02 10 www.sew-eurodrive.ci/ info@sew-eurodrive.cm
Canada			
Assembly Sales Service	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2001 Ch. de l'Aviation Dorval Quebec H9P 2X6	Tel. +1 514 367-1124 Fax +1 514 367-3677 n.paradis@sew-eurodrive.ca
Chile			
Assembly Sales Service	Santiago de Chile	SEW-EURODRIVE CHILE LTDA Las Encinas 1295 Parque Industrial Valle Grande LAMP Santiago de Chile P.O. Box Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 2757 7000 Fax +56 2 2757 7001 http://www.sew-eurodrive.cl ventas@sew-eurodrive.cl
China			
Production Assembly Sales Service	Tianjin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 78, 13th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 http://www.sew-eurodrive.cn info@sew-eurodrive.cn
Assembly Sales Service	Suzhou	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021	Tel. +86 512 62581781 Fax +86 512 62581783 suzhou@sew-eurodrive.cn
	Guangzhou	SEW-EURODRIVE (Guangzhou) Co., Ltd. No. 9, JunDa Road East Section of GETDD Guangzhou 510530	Tel. +86 20 82267890 Fax +86 20 82267922 guangzhou@sew-eurodrive.cn
	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Development Area Shenyang, 110141	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn
	Taiyuan	SEW-EURODRIVE (Taiyuan) Co., Ltd. No.3, HuaZhang Street, TaiYuan Economic & Technical Development Zone ShanXi, 030032	Tel. +86-351-7117520 Fax +86-351-7117522 taiyuan@sew-eurodrive.cn
	Wuhan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Xi'An	SEW-EURODRIVE (Xi'An) Co., Ltd. No. 12 Jinye 2nd Road Xi'An High-Technology Industrial Development Zone Xi'An 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn
	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 36902200 Fax +852 36902211 contact@sew-eurodrive.hk

Colombia			
Assembly Sales Service	Bogota	SEW-EURODRIVE COLOMBIA LTDA. Calle 17 No. 132-18 Interior 2 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sew@sew-eurodrive.com.co
Croatia			
Sales Service	Zagreb	KOMPEKS d. o. o. Zeleni dol 10 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Czech Republic			
Assembly Sales Service	Hostivice	SEW-EURODRIVE CZ s.r.o. Floriánova 2459 253 01 Hostivice	Tel. +420 255 709 601 Fax +420 235 350 613 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz
Denmark			
Assembly Sales Service	Copenhagen	SEW-EURODRIVE A/S Geminivej 28-30 2670 Greve	Tel. +45 43 95 8500 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Service	Vejle	SEW-EURODRIVE A/S Bødkervej 2 7100 Vejle	Tel. +45 43 9585 00 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Egypt			
Technical Office	Cairo	SEW-EURODRIVE Representative Office in Egypt 47 Office Building, Section 1, City Centre, New Cairo Cairo	Tel. +20 2 2503 2807 Fax +20 2 2503 2801 info@sew-eurodrive.eg
Estonia			
Sales	Tallin	ALAS-KUUL AS Loomäe tee 1, Lehmja küla 75306 Rae vald Harjumaa	Tel. +372 6593230 Fax +372 6593231 http://www.alas-kuul.ee info@alas-kuul.ee
Finland			
Assembly Sales Service	Hollola	SEW-EURODRIVE OY Vesimäentie 4 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Service	Hollola	SEW-EURODRIVE OY Keskikankaantie 21 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
	Tornio	SEW-EURODRIVE Oy Lossirannankatu 5 95420 Tornio	Tel. +358 201 589 300 Fax +358 3 780 6211 http://www.sew-eurodrive.fi sew@sew.fi
Production Assembly	Karkkila	SEW Industrial Gears Oy Santasalonkatu 6, PL 8 03620 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 http://www.sew-eurodrive.fi sew@sew.fi
France			
Production Sales	Haguenau	SEW USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 http://www.usocom.com sew@usocom.com
Production	Forbach	SEW USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 57604 Forbach Cedex	Tel. +33 3 87 29 38 00
	Brumath	SEW USOCOME 1 Rue de Bruxelles 67670 Mommernheim Cedex	Tel. +33 3 88 37 48 00

France			
Assembly Sales Service	Bordeaux	SEW USOCOME Parc d'activités de Magellan 62 avenue de Magellan – B. P. 182 33607 Pessac Cedex	Tel. +33 5 57 26 39 00 dtcbordeaux@usocome.com
	Haguenau	SEW USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 dtchaguenau@usocome.com
	Lyon	SEW USOCOME 75 rue Antoine Condorcet 38090 Vaulx-Milieu	Tel. +33 4 74 99 60 00 dtclyon@usocome.com
	Nantes	SEW USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon	Tel. +33 2 40 78 42 00 dtcnantes@usocome.com
	Paris	SEW USOCOME Zone industrielle 2 rue Denis Papin 77390 Verneuil l'Étang	Tel. +33 1 64 42 40 80 dtcparis@usocome.com
Gabon			
Representation: Cameroon			
Germany			
Headquarters Production Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
Production / Industrial Gears	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str. 10 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production / Precision Gear Units	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 sew@sew-eurodrive.de
Production	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251-2970
Service Competence Center	Mechanics / Mechatronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 scc-mechanik@sew-eurodrive.de
	Electronics	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Straße 12 76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 scc-elektronik@sew-eurodrive.de
	MAXOLU- TION® Factory Automation	SEW-EURODRIVE GmbH & Co KG Eisenbahnstraße 11 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 sew@sew-eurodrive.de
Drive Technology Center	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 43 30823 Garbsen (Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 dtc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzter Weg 1 08393 Meerane (Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-20 dtc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim (München)	Tel. +49 89 909551-21 Fax +49 89 909551-50 dtc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 40764 Langenfeld (Düsseldorf)	Tel. +49 2173 8507-10 Fax +49 2173 8507-50 dtc-west@sew-eurodrive.de
Drive Center	Berlin	SEW-EURODRIVE GmbH & Co KG Melitta-Schiller-Straße 8 12526 Berlin	Tel. +49 306331131-30 Fax +49 306331131-36 dc-berlin@sew-eurodrive.de
	Bremen	SEW-EURODRIVE GmbH & Co KG Allerkai 4 28309 Bremen	Tel. +49 421 33918-10 Fax +49 421 33918-22 tb-bremen@sew-eurodrive.de

Germany			
	Hamburg	SEW-EURODRIVE GmbH & Co KG Hasselbinnen 11 22869 Schenefeld	Tel. +49 40298109-60 Fax +49 40298109-70 dc-hamburg@sew-eurodrive.de
	Saarland	SEW-EURODRIVE GmbH & Co KG Gottlieb-Daimler-Straße 4 66773 Schwalbach Saar – Hülzweiler	Tel. +49 6831 48946 10 Fax +49 6831 48946 13 dc-saarland@sew-eurodrive.de
	Ulm	SEW-EURODRIVE GmbH & Co KG Dieselstraße 18 89160 Dornstadt	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 dc-ulm@sew-eurodrive.de
	Würzburg	SEW-EURODRIVE GmbH & Co KG Nürnbergerstraße 118 97076 Würzburg-Lengfeld	Tel. +49 931 27886-60 Fax +49 931 27886-66 dc-wuerzburg@sew-eurodrive.de
Drive Service Hotline / 24 Hour Service			0 800 SEWHELP 0 800 7394357

Great Britain			
Assembly Sales Service	Normanton	SEW-EURODRIVE Ltd. DeVilliers Way Trident Park Normanton West Yorkshire WF6 1GX	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk

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

Hungary			
Sales Service	Budapest	SEW-EURODRIVE Kft. Csillaghegyi út 13. 1037 Budapest	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu

Iceland			
Sales	Reykjavik	Varma & Vélaverk ehf. Knarrarvogi 4 104 Reykjavik	Tel. +354 585 1070 Fax +354 585)1071 https://vov.is/ vov@vov.is

India			
Registered Office Assembly Sales Service	Vadodara	SEW-EURODRIVE India Private Limited 302, NOTUS IT PARK, Sarabhai Campus, Beside Notus Pride, Genda Circle, Vadodara 390023 Gujarat	Tel. +91 265 3045200 Fax +91 265 3045300 https://www.seweurodriveindia.com salesvadodara@seweurodriveindia.com
Assembly Sales Service	Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Plant: Plot No. D236/1, Chakan Industrial Area Phase- II, Warale, Tal- Khed, Pune-410501, Maharashtra	Tel. +91 21 35 628700 Fax +91 21 35 628715 salespune@seweurodriveindia.com
	Tapukara	SEW-EURODRIVE India Private Limited Plot No SP-6-46, Tapukara, Karoli Industrial Area, No. 1, district : Alwar , Rajasthan - 301707	Tel. +91 265 3045200 Fax +91 265 3045300 tapukara.plant@seweurodriveindia.com
Sales	Gurgaon	SEW-EURODRIVE India Private Limited Global Business Park, Sector -26, M.G. Road, Sikanderpur Unit No. 205, 2nd Floor, Tower – D Gurugram 122002, Haryana	Tel. +91 9958376669 salesgurgaon@seweurodriveindia.com

Indonesia			
Registered Office Sales Service	Jakarta	PT SEW EURODRIVE INDONESIA Palma Tower, 16th Floor, Unit H & I, Jl R.A. Kartini II-S Kav 06 Pondok Pinang, Kebayoran Lama Jakarta Selatan 12310	Tel. +62 21 7593 0272 Fax +62 21 7593 0273 sales.indonesia@sew-eurodrive.com https://www.sew-eurodrive.com.sg
Sales	Medan	PT. Serumpun Indah Lestari Jl.Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com http://www.serumpunindah.com
	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel. +62 21 65310599 Fax +62 21 65310600 csajkt@cbn.net.id
	Jakarta	PT. Agrindo Putra Lestari Jl.Pantai Indah Selatan, Komplek Sentra In- dustri Terpadu, Pantai indah Kapuk Tahap III, Blok E No. 27 Jakarta 14470	Tel. +62 21 2921-8899 Fax +62 21 2921-8988 aplindo@indosat.net.id http://www.aplindo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60111	Tel. +62 31 5990128 Fax +62 31 5962666 sales@triagri.co.id http://www.triagri.co.id
	Surabaya	CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel. +62 31 5458589 Fax +62 31 5317220 sianhwa@sby.centrin.net.id http://www.cvmultimas.com
Ireland			
Sales Service	Dublin	Alpert Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 http://www.alpert.ie info@alpert.ie
Israel			
Sales	Tel Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
Italy			
Assembly Sales Service	Milan	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Via Bernini,12 20033 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 980 999 http://www.sew-eurodrive.it milano@sew-eurodrive.it
Ivory Coast			
Sales	Abidjan	SEW-EURODRIVE SARL Ivory Coast Rue des Pêcheurs, Zone 3 26 BP 916 Abidjan 26	Tel. +225 27 21 21 81 05 Fax +225 27 21 25 30 47 info@sew-eurodrive.ci http://www.sew-eurodrive.ci
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 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Kazakhstan			
Sales Service	Almaty	SEW-EURODRIVE LLP 291-291A, Tole bi street 050031, Almaty	Tel. +7 (727) 350 5156 Fax +7 (727) 350 5156 http://www.sew-eurodrive.com kazakhstan@sew-eurodrive.com
	Tashkent	Representative Office SEW-EURODRIVE Representative office in Uzbekistan 95A Amir Temur ave, office 401/3 100084 Tashkent	Tel. +998 97 134 01 99 http://www.sew-eurodrive.uz sew@sew-eurodrive.uz

Ulaanbaatar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230, MN	Tel. +976-77109997 Fax +976-77109997 imt@imt.mn
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Latvia

Sales	Riga	SIA Alas-Kuul Katlakalna 11C 1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.lv info@alas-kuul.com
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Lebanon

Sales (Lebanon)	Beirut	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Sales (Jordan, Kuwait , Beirut Saudi Arabia, Syria)		Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 http://www.medrives.com info@medrives.com

Lithuania

Sales	Alytus	UAB Irseva Statybininku 106C 63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 http://www.irseva.lt irmantas@irseva.lt
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Luxembourg

Representation: Belgium

Macedonia

Sales	Skopje	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk
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Malaysia

Assembly Sales Service	Johor	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
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Mexico

Assembly Sales Service	Quéretaro	SEW-EURODRIVE MEXICO S.A. de C.V. SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Querétaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@sew-eurodrive.com.mx
Sales Service	Puebla	SEW-EURODRIVE MEXICO S.A. de C.V. Calzada Zavaleta No. 3922 Piso 2 Local 6 Col. Santa Cruz Buenavista C.P. 72154 Puebla, México	Tel. +52 (222) 221 248 http://www.sew-eurodrive.com.mx scmexico@sew-eurodrive.com.mx

Mongolia

Technical Office	Ulaanbaatar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230, MN	Tel. +976-77109997 Tel. +976-99070395 Fax +976-77109997 http://imt.mn/ imt@imt.mn
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Morocco

Sales Service Assembly	Bouskoura	SEW-EURODRIVE Morocco SARL Parc Industriel CFCIM, Lot. 55/59 27182 Bouskoura Grand Casablanca	Tel. +212 522 88 85 00 Fax +212 522 88 84 50 http://www.sew-eurodrive.ma sew@sew-eurodrive.ma
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Namibia			
Sales	Swakopmund	DB MINING & INDUSTRIAL SUPPLIES CC Einstein Street Strauss Industrial Park Unit1 Swakopmund	Tel. +264 64 462 738 Fax +264 64 462 734 anton@dbminingnam.com
Netherlands			
Assembly Sales Service	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 3044 AS Rotterdam Postbus 10085 3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl
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. 30 Lodestar Avenue, Wigram Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Nigeria			
Sales	Lagos	Greenpeg Nig. Ltd 64C Toyin Street Opebi-Allen Ikeja Lagos-Nigeria	Tel. +234-701-821-9200-1 http://www.greenpeg ltd.com sales@greenpeg ltd.com
Norway			
Assembly Sales Service	Moss	SEW-EURODRIVE A/S Hornebergvegen 11 B 7038 Trondheim	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
Pakistan			
Sales	Karachi	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Com- mercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
Paraguay			
Sales	Fernando de la Mora	SEW-EURODRIVE PARAGUAY S.R.L Nu Guazu No. 642 casi Campo Esperanza Santisima Trinidad Asuncion	Tel. +595 991 519695 Fax +595 21 3285539 sewpy@sew-eurodrive.com.py
Peru			
Assembly Sales Service	Lima	SEW EURODRIVE DEL PERU 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
Philippines			
Sales	Makati	P.T. Cerna Corporation 4137 Ponte St., Brgy. Sta. Cruz Makati City 1205	Tel. +63 2 519 6214 Fax +63 2 890 2802 mech_drive_sys@ptcerna.com http://www.ptcerna.com
Poland			
Assembly Sales Service	Łódź	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 92-518 Łódź	Tel. +48 42 293 00 00 Fax +48 42 293 00 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 293 0030 Fax +48 42 293 0043	24 Hour Service Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl

Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Av. da Fonte Nova, n.º 86 3050-379 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Brazilia nr. 36 011783 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 http://www.sialco.ro sialco@sialco.ro
Senegal			
Sales	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 http://www.senemeca.com senemeca@senemeca.sn
Serbia			
Sales	Belgrade	DIPAR d.o.o. Ustanicka 128a PC Košum, IV floor 11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs
Singapore			
Assembly Sales Service	Singapore	SEW-EURODRIVE PTE. LTD. 9, Tuas Drive 2 Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com
Slovakia			
Sales	Bernolákovo	SEW-Eurodrive SK s.r.o. Priemyselná ulica 6267/7 900 27 Bernolákovo	Tel. +421 2 48 212 800 http://www.sew-eurodrive.sk sew@sew-eurodrive.sk
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. Ul. XIV. divizije 14 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 32 O'Connor Place Eurodrive House Aeroton Johannesburg 2190 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 248-7289 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 bgriffiths@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 48 Prospecton Road Isipingo Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 902 3815 Fax +27 31 902 3826 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PROPRIETARY) LIMITED 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za

7 Address list

South Korea			
Assembly Sales Service	Ansan	SEW-EURODRIVE Korea Co., Ltd. 7, Dangjaengi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-eurodrive.kr master.korea@sew-eurodrive.com
	Busan	SEW-EURODRIVE Korea Co., Ltd. 28, Noksansandan 262-ro 50beon-gil, Gangseo-gu, Busan, Zip 618-820	Tel. +82 51 832-0204 Fax +82 51 832-0230
Assembly Service	Siheung	SEW-EURODRIVE Korea Co., Ltd. 35, Emtibeui 26-ro 58beon-gil, Siheung-si, Gyeonggi-do	http://www.sew-eurodrive.kr
Spain			
Assembly Sales Service	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 48170 Zamudio (Vizcaya)	Tel. +34 94 43184-70 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es
Sri Lanka			
Sales	Colombo	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981
Swaziland			
Sales	Manzini	C G Trading Co. (Pty) Ltd Simunye street Matsapha, Manzini	Tel. +268 7602 0790 Fax +268 2 518 5033 charles@cgtrading.co.sz www.cgtradingswaziland.com
Sweden			
Assembly Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 553 03 Jönköping Box 3100 S-550 03 Jönköping	Tel. +46 36 34 42 00 Fax +46 36 34 42 80 http://www.sew-eurodrive.se jonkoping@sew.se
Switzerland			
Assembly Sales Service	Basel	Alfred Imhof A.G. Jurastrasse 10 4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
Taiwan			
Sales	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Huw S. Road Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
Tanzania			
Sales	Daressalam	SEW-EURODRIVE PTY LIMITED TANZANIA Plot 52, Regent Estate PO Box 106274 Dar Es Salaam	Tel. +255 0 22 277 5780 Fax +255 0 22 277 5788 http://www.sew-eurodrive.co.tz info@sew.co.tz
Thailand			
Assembly Sales Service	Chonburi	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com https://www.sew-eurodrive.co.th
Tunisia			
Sales	Tunis	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn

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Turkey

Assembly Sales Service	Kocaeli-Gebze	SEW-EURODRIVE Ana Merkez Gebze Organize Sanayi Böl. 400 Sok No. 401 41480 Gebze Kocaeli	Tel. +90 262 9991000 04 Fax +90 262 9991009 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
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Ukraine

Assembly Sales Service	Dnipropetrovsk	SEW-EURODRIVE, LLC Robochya str., bld. 23-B, office 409 49008 Dnipro	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
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United Arab Emirates

Drive Technology Center	Dubai	SEW-EURODRIVE FZE PO Box 263835 Jebel Ali Free Zone – South, P.O. Box Dubai, United Arab Emirates	Tel. +971 (0)4 8806461 Fax +971 (0)4 8806464 info@sew-eurodrive.ae
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Uruguay

Assembly Sales	Montevideo	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esquina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-90 sewuy@sew-eurodrive.com.uy
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USA

Production Sales Service	Southeast Region	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 Production +1 864 439-9948 Fax Assembly +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com
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Assembly Sales Service	Northeast Region	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
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	Midwest Region	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
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	Southwest Region	SEW-EURODRIVE INC. 202 W. Daniieldale Rd. DeSoto, TX 75115	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
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	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
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	Wellford	SEW-EURODRIVE INC. 148/150 Finch Rd. Wellford, S.C. 29385	Tel. +1 864 439-7537 Fax +1 864 661 1167 IGOrders@seweurodrive.com
		SEW-EURODRIVE INC. 220 Finch Rd. Wellford, S.C. 29385-9630	

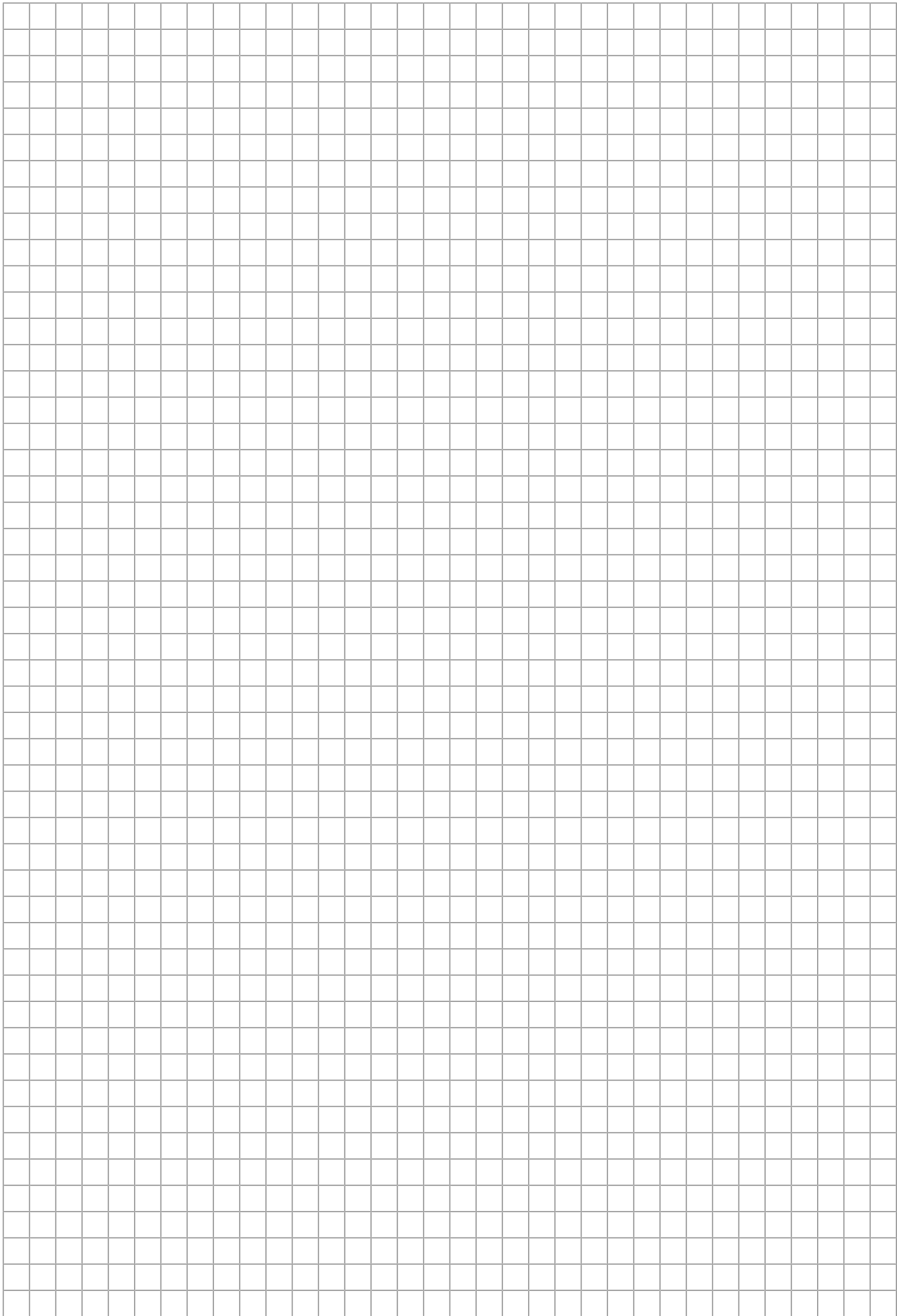
Additional addresses for service provided on request!

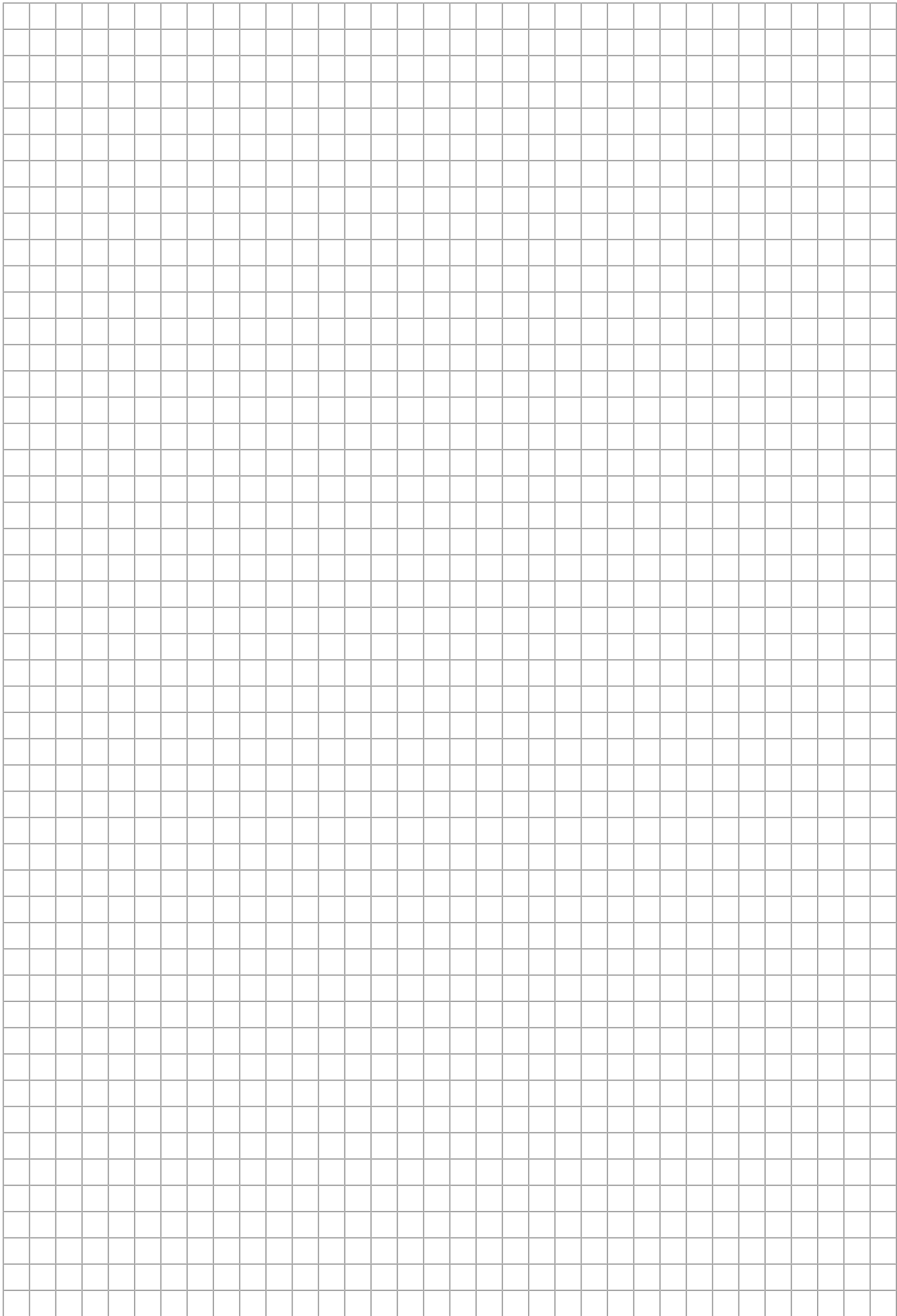
Vietnam

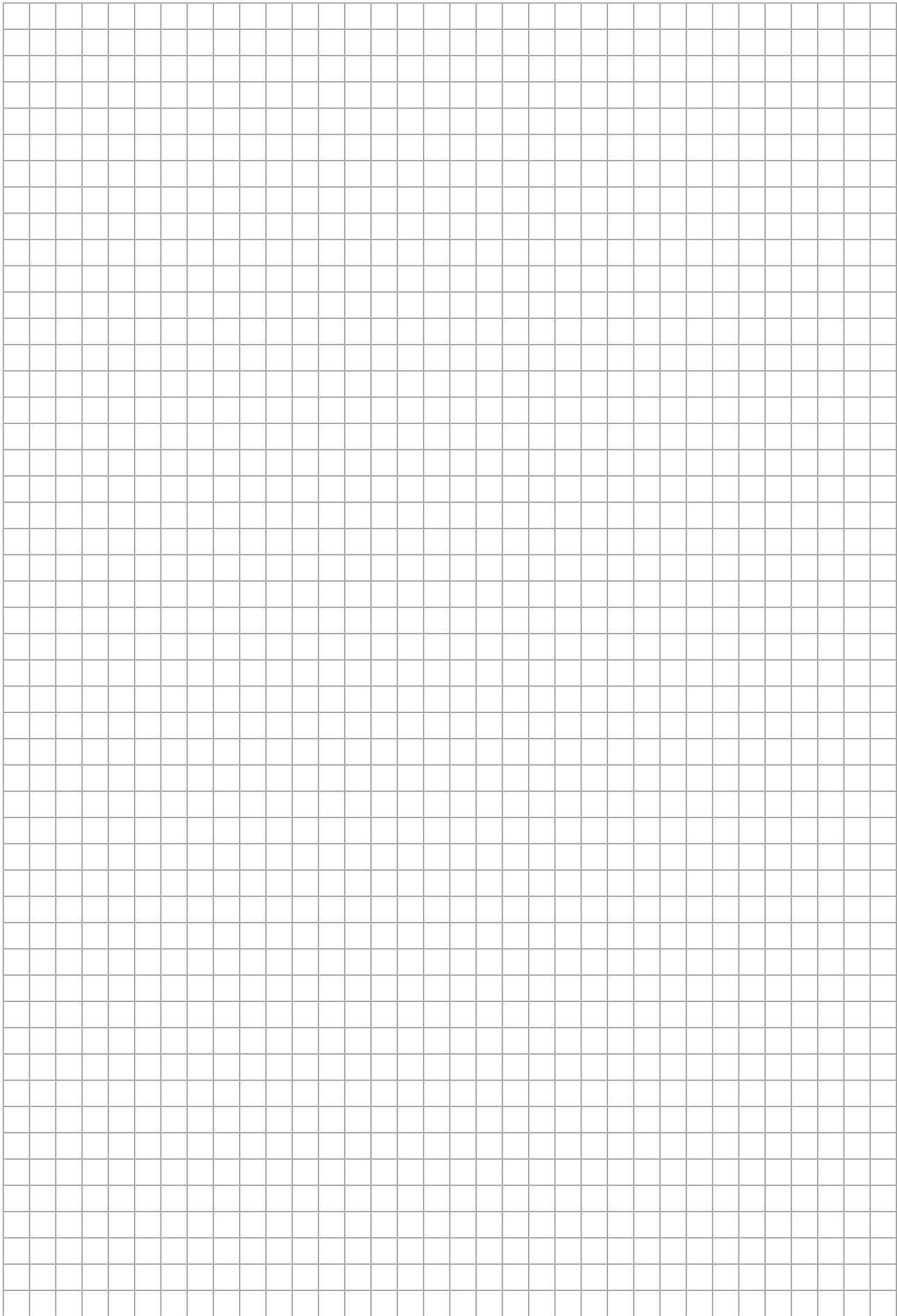
Sales	Ho Chi Minh City	SEW-EURODRIVE PTE. LTD. RO at Hochim- inh City Floor 8, KV I, Loyal building, 151-151 Bis Vo Thi Sau street, ward 6, District 3, Ho Chi Minh City, Vietnam	Tel. +84 937 299 700 huytam.phan@sew-eurodrive.com
	Hanoi	MICO LTD Quảng Trị - North Vietnam / All sectors except Construction Materials 8th Floor, Ocean Park Building, 01 Dao Duy Anh St, Ha Noi, Viet Nam	Tel. +84 4 39386666 Fax +84 4 3938 6888 nam_ph@micogroup.com.vn http://www.micogroup.com.vn

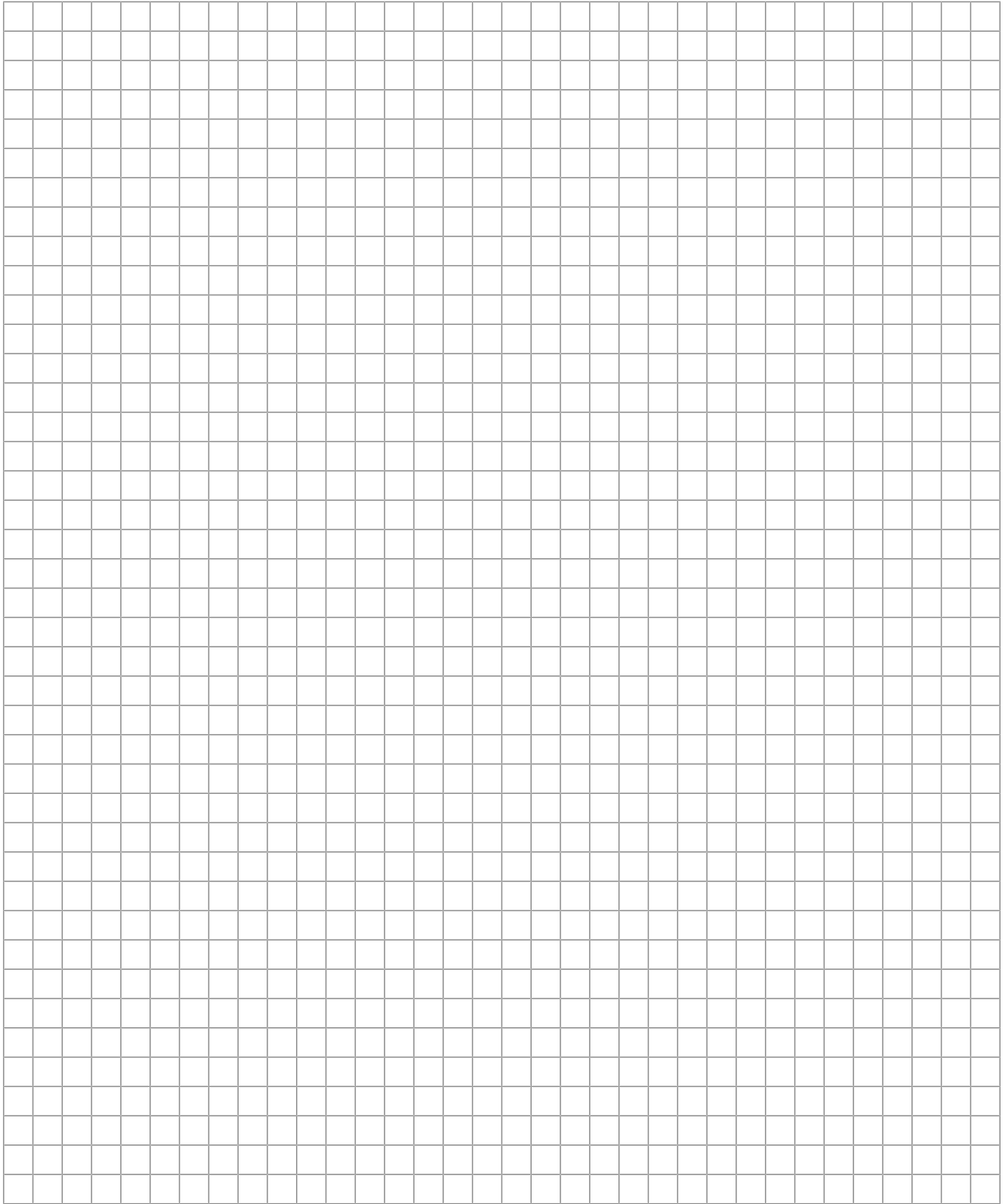
Zambia

Representation: South Africa











SEW-EURODRIVE
Driving the world

SEW
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SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 BRUCHSAL
GERMANY
Tel. +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com