SEW EURODRIVE

# Operating Instructions

## Contactless Energy Transfer System
## MOVITRANS® line Pick-Up with Direct Connection TDM90C

Edition 02/2024

31959814/EN

# Table of Contents



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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 safety notes.

| Signal word | Meaning | Consequences if not observed |
|---|---|---|
| ⚠ **DANGER** | Imminent danger | Death or severe injuries |
| ⚠ **WARNING** | Possibly dangerous situation | Death or severe injuries |
| ⚠ **CAUTION** | Possibly 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.

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### 1.3.3 Meaning of the hazard symbols

The hazard symbols in the safety notes have the following meaning:

| Hazard symbol | Meaning |
|---|---|
|  | General hazard |
|  | Warning of dangerous electrical voltage |
|  | Warning of hot surfaces |
|  | Warning about suspended load |

### 1.3.4 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.

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## 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
- Product safety label 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.

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## 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.

Only operate the pick-up with direct connection with the designated und suitable consumers, and in combination with the relevant cooling components designated for the system or machine.

### 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.

### 2.3.2 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.
- Operation at an elevation of more than 2000 m above sea level
- Operation in outdoor areas

## 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".

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## 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" (→ 🗎 41) of the documentation.

## 2.8 Installation/assembly

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

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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" (→ 🗎 19) in the documentation.

## 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

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## 2.10 Protective separation

The product meets all requirements for protective separation of power and electronics connections in accordance with IEC 61800-5-1. The connected signal circuits must meet requirements according to SELV (**S**afety **E**xtra **L**ow **V**oltage) or PELV (**P**rotective **E**xtra **L**ow **V**oltage) to ensure protective separation. The installation must meet the requirements for protective separation.

In order to avoid exceeding the permitted contact voltages in SELV or PELV power circuits in the event of a fault, continuous equipotential bonding is required in the vicinity of these power circuits. If this is not possible, other preventive measures must be taken. These preventive measures are described in IEC 61800-5-1.

## 2.11 Startup/operation

Observe the safety notes in the chapters "Startup" and "Operation" in the associated product manual.

Make sure that any existing transport protection is removed.

Do not deactivate monitoring and protection devices of the machine or system, even for a test run.

Depending on the degree of protection, products may have live, uninsulated, and sometimes moving or rotating parts as well as hot surfaces during operation.

When the device is switched on, dangerous voltages are present at all power connections as well as at any connected cables and terminals. This is also the case even if the product is inhibited.

Do not separate the connection to the product during operation. This may result in dangerous electric arcs damaging the product.

If you disconnect the product from the voltage supply, do not touch any live components or power connections because energy storage devices might still be charged.

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# 3 Product structure

## 3.1 Type designation

| | | |
|---|---|---|
| **TDM90C** | MOVITRANS® mobile pick-up with controlled voltage output | |
| **005** | Nominal power: 500 W | |
| **–** | | |
| **D** | DC | |
| **..** | Nominal output voltage: | |
| | 05 | 48 V |
| | 06 | 55 V |
| | 35 | 352 V |
| **–** | | |
| **B** | Operating frequency: 50 kHz | |
| **03** | Nominal current line cable: 30 A | |
| **–** | | |
| **.** | Design: | |
| | 0 | Standard |
| | 1 | Customer-specific |

## 3.2 Scope of delivery

The scope of delivery includes the following components:

| **Component** |
|---|
| MOVITRANS® pick-up with direct connection TDM90C005-D35-B03-0<br>(352 V, 500 W) |
| or |
| MOVITRANS® pick-up with direct connection TDM90C005-D06-B03-0<br>(55 V, 500 W) |
| or |
| MOVITRANS® pick-up with direct connection TDM90C005-D05-B03-0<br>(48 V, 500 W) |
| or |
| MOVITRANS® pick-up with direct connection TDM90C005-D05-B03-1<br>(48 V, 500 W) |

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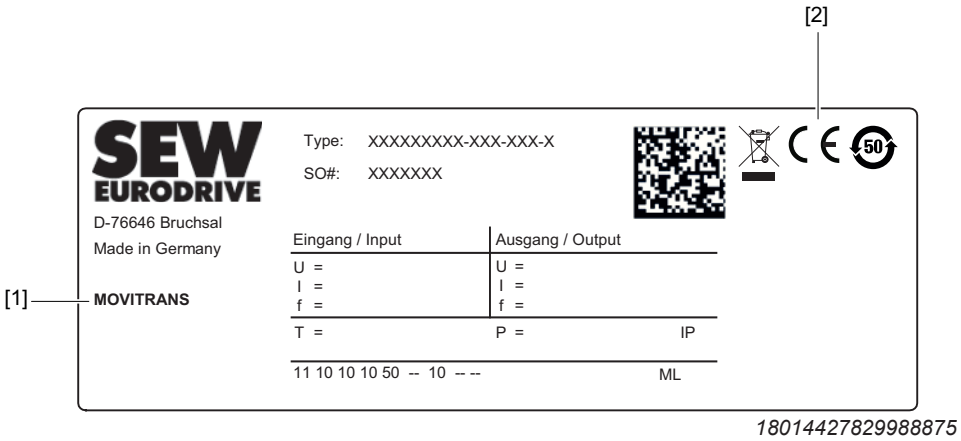
## 3.3 Nameplate

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

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[1] Product name
[2] Approval identification

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

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

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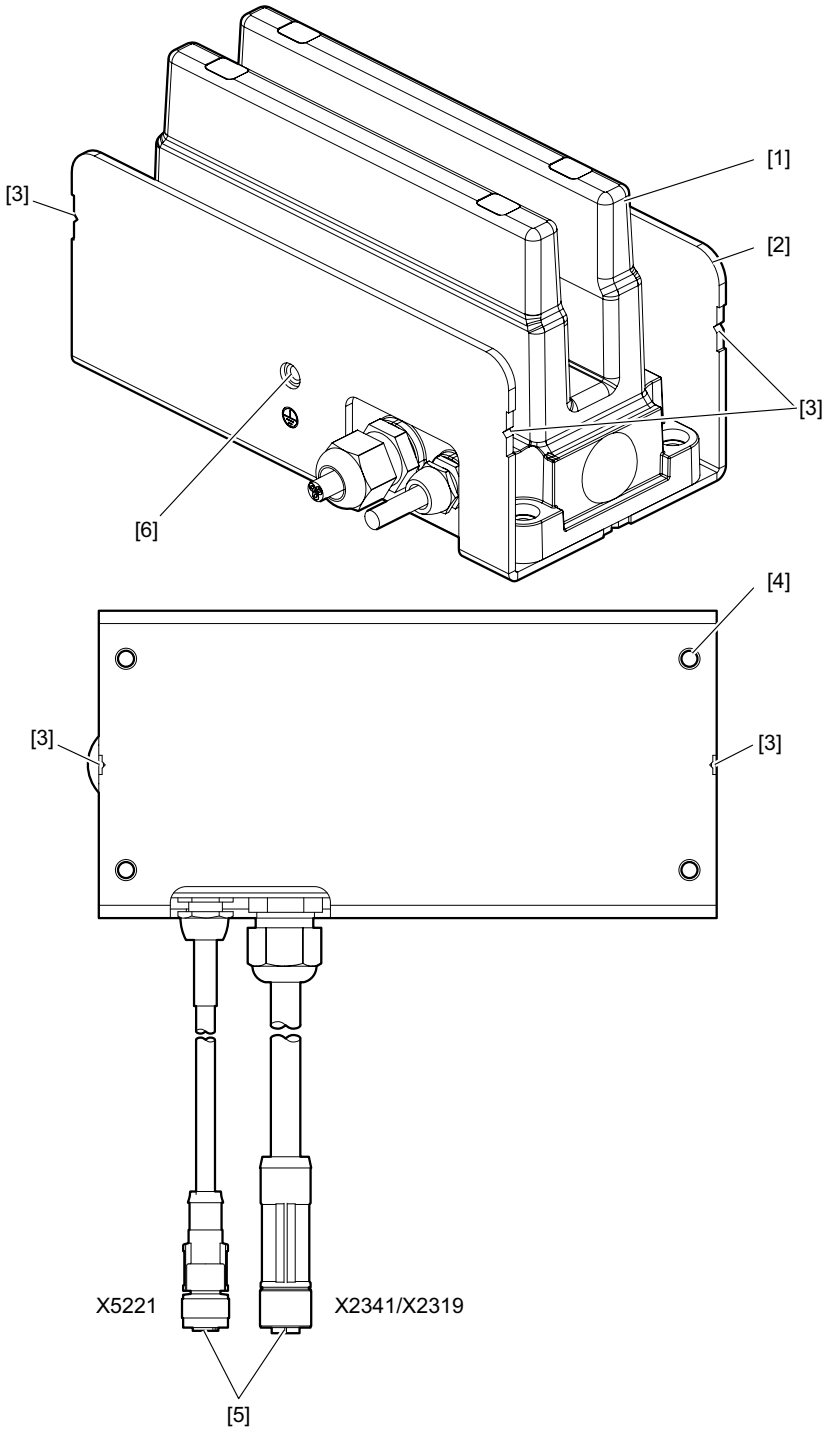
## 3.4 Device overview

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[1] Pick-up
[2] U-shaped shield plate
The shield plate also functions as a cooling plate.
[3] Setting aids for center alignment and height adjustment of the pick-up
[4] Mounting bores with M6 female thread for fastening
[5] Connections
The connections are routed out of the device on cables.
[6] M6 connection for equipotential bonding

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## INFORMATION

Depending on the type of pick-up, the power output differs in terms of designation and design:

TDM90C (352 V): X2341

TDM90C (55 V/48 V): X2319

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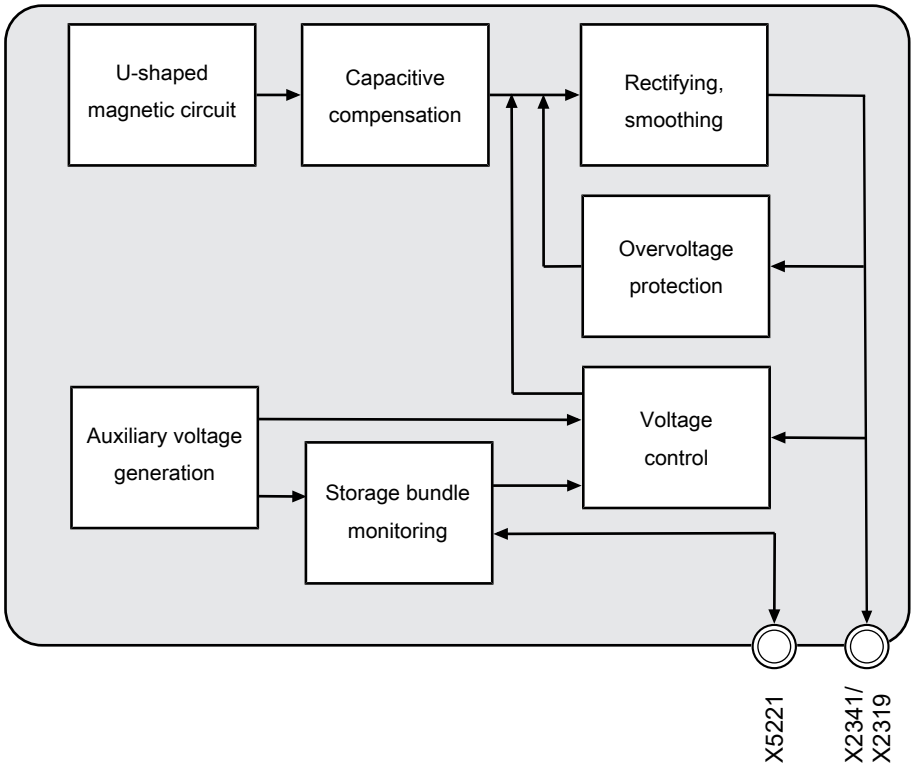
## 3.5 Accessories

### INFORMATION

The scope of delivery does not include accessories, such as installation and mounting material or connection cables.

## 3.6 Functional principle

The block diagram shows the basic structure of the product:

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X2341 or X2319

When the line cable is energized, the pick-up acts as a constant current source. The current is available at the power output (X2341 oder X2319). The constant current is used to charge the capacitive energy storage unit connected at the power output (e. g. a MOVI-DPS® storage bundle (EKV)). The capacitive energy storage unit supports the load (the charging system or drive system).

The pick-up controls the voltage at the power output. The output voltage remains constant if the current taken from the energy storage unit is below the constant current that the pick-up can supply.

In case of overvoltage at the power output, the pick-up permanently interrupts the charging process of the energy storage unit. Restart is only possible when interlocking has been reset. The inhibit in the event of an overvoltage fault is reset by switching off the TES decentralized supply unit.

In the event of overtemperature in the pick-up, the pick-up interrupts the charging process of the energy storage unit. After the pick-up has cooled down, the charging process restarts automatically.

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X5221

If the pick-up is operated without MOVI-DPS® EKV storage bundle, the X5221 connection must be connected with a jumper plug or an external floating interface. Refer to chapter "Electrical installation" (→ 🗎 24) for further information.

If the pick-up is operated with MOVI-DPS® EKV storage bundle, the following applies:

When the output voltage at the power output has reached a minimum value, the pick-up generates a DC voltage at output X5221 that supplies the monitoring assembly in the MOVI-DPS® storage bundle. The minimum value depends on the type of pick-up:

- TDM90C (352 V), power output X2341: 60 V
- TDM90C (55 V/48 V), power output X2319: 10 V

The monitoring assembly reports back the following values to the pick-up:

- The temperature as analog signal
- Pending errors in the form of digital signals

In case of overtemperature, overvoltage, or a fault in the storage bundle, the pick-up interrupts the charging process of the storage bundle. If there are no more error signals present at output X5221, the charging process continues automatically.

All signals at X5221 are safely separated from the power output.

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# 4 Mechanical installation

## 4.1 Requirements

**NOTICE**

Risk of collision.

Damage to plant and device components.

- Always position the device so that it will not collide with other components, design elements or persons along the travel path.

Comply with the following prerequisites:

- Trained specialists perform the installation.
- The information provided in the technical data and the permitted conditions for the operating location of the device are observed.
- The device is only mounted using the intended mounting options.
- The selection and dimensioning of the mounting and locking elements are in line with the applicable standards, the technical data of the devices and the local requirements.
- The bore dimensions are calculated in line with the respective type of fixture. For further information, refer to chapter "Technical data" (→ 🗎 41).
- The mounting and locking elements fit into the existing bores, threads and countersinks.

## 4.2 Waste heat

Make sure that

- The waste heat can also be dissipated during standstill.
- The device is not located in the immediate vicinity of other heat sources.

The pick-up is supplied with a U-shaped shield plate that also functions as a cooling plate. The cooling plate dissipates the waste heat from the metallic back of the transformer.

- During installation, make sure that the cooling plate is clean and positioned flush with the aluminum cover of the pick-up without air gap.
- Install the customer holding fixture so that this assembly (pick-up with attached cooling plate) is optimally connected. Ideally, the customer holding fixture is designed in such a way that additional heat is dissipated through it.

**INFORMATION**

Adhere to the tightening torques, see chapter "Tightening torques" (→ 🗎 20). In this way you achieve optimum contact pressure between the pick-up, cooling plate, and the customer holding fixture.

- The cooling plate must not be covered by machine or system components. Design the customer's holding fixture in such a way that the cooling effect is not affected as far as possible.

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## 4.3 Tightening torques

When tightening the screws during mechanical and electrical installation, observe the tightening torques specified in the following table:

| Screw connection | Type/size | Tightening torque[1)] |
|---|---|---|
| Mounting of the pick-up unit with shield plate | M6 screw | 4 Nm |
| M12 plug connector (connection cable) | M12 screw | 0.5 Nm |
| Equipotential bonding connection | M6 screw | 3 Nm |

1) Nominal tightening torque (general tolerance ±10%)

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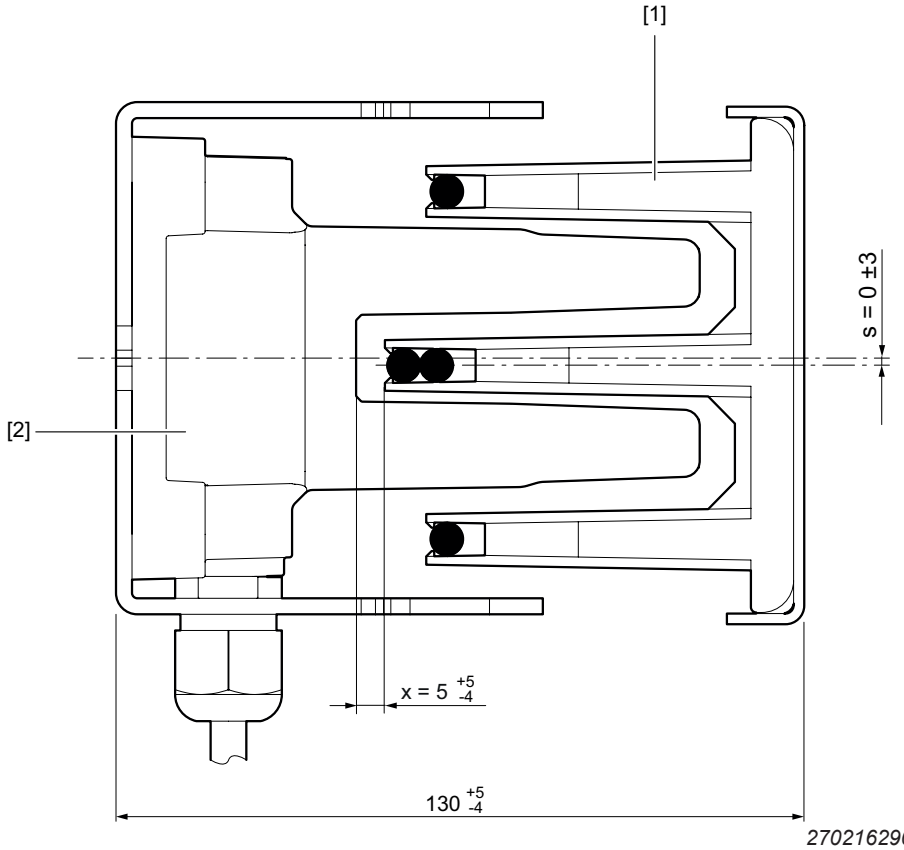
## 4.4 Installation

The pick-up is delivered as a unit together with the shield plate. The pick-up must be adapted to the system together with the shield plate using a customer-supplied holding fixture.

Observe the following notes:

- To ensure good heat dissipation, the customer's support must be made of aluminum.
- Observe the information on the clearance, see chapter "Clearance" (→ 🗎 23).
- Align the pick-up with the shield plate so that the tolerances specified in the following figure are adhered to. Note that the position of the pick-up and the line cable holder can change during operation, for example due to wear.

The following figure shows the position in operation with the required dimensions in mm:

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x Distance between pick-up and line cable holder
s Center offset between pick-up and line cable
[1] Line cable holder (mounted to the stationary subcomponent)
[2] Pick-up (mounted to the mobile subcomponent)

The pick-up is fastened using 4 mounting holes with M6 thread. For the necessary dimensions, refer to chapter "Technical data" (→ 🗎 41).

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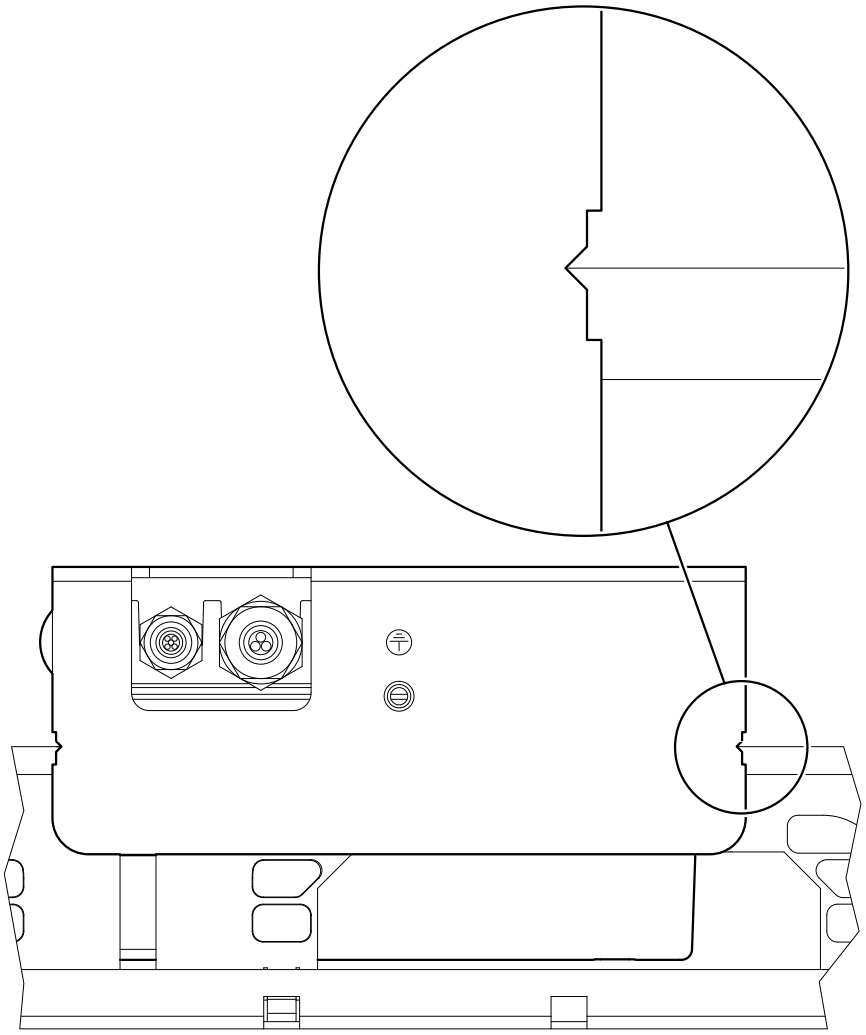
## ⚠ WARNING

Risk of crushing if the load falls.

Severe or fatal injuries.

- Do not stand under the load.
- Secure the area where loads can fall down.

1. Adhere to the maximum tightening torques "Tightening torques" (→ 🗎 20) when mounting the pick-up.
2. Notches are attached to the shield plate as an adjustment aid. Align the pick-up so that the notches in the shield plate align with the upper line cable.



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3. ⚠ **CAUTION!** Ejection of parts during acceleration or deceleration. Minor injuries or damage to property. Use 4 × M6 screws for installation. Use appropriate measures to secure the screws such as liquid threadlocker.
   Attach the device to the customer holding fixture.
4. Ensure that the customer holding fixture is properly connected to the equipotential bonding of the mobile subcomponent.

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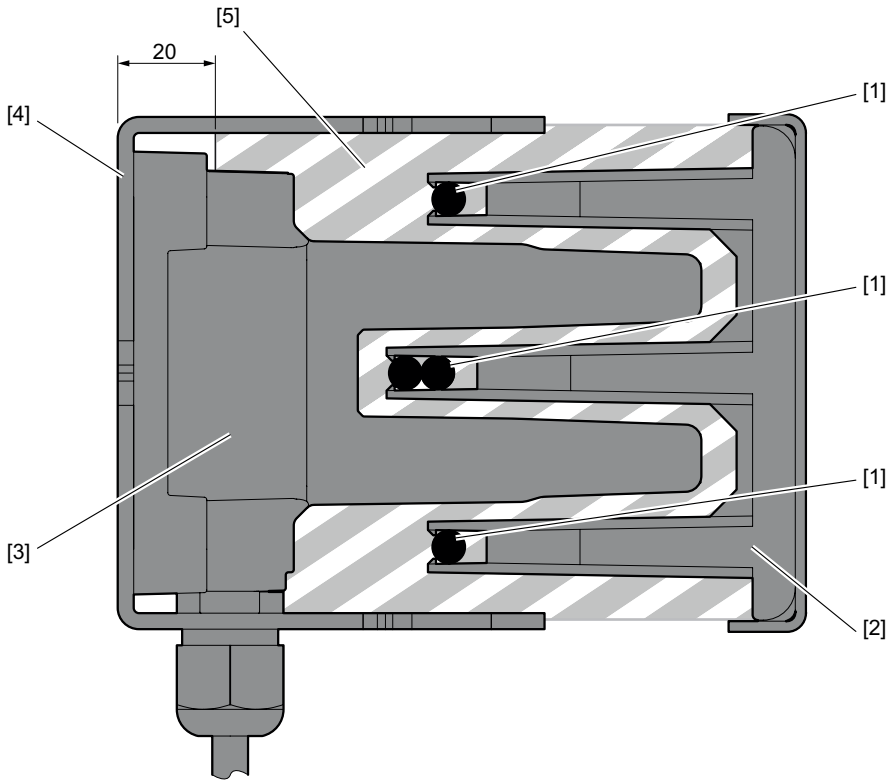
Observe the influence of the mechanical alignment on the performance of the pick-up system. This relationship is shown in the "position-dependent power output (derating)" curve, see chapter "Technical data" (→ 🗎 41).

## INFORMATION

Install several pick-ups with a minimum distance of 50 mm to each other.

### 4.4.1 Clearance

Ensure that there is no ferromagnetic or conductive material in the clearance shown in the drawing. This prevents the heating of this material and losses during power transmission.

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[1] Line cable
[2] Line cable holder
[3] Pick-up
[4] Aluminum shield plate (2 mm)
[5] Clearance

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# 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 Cable routing

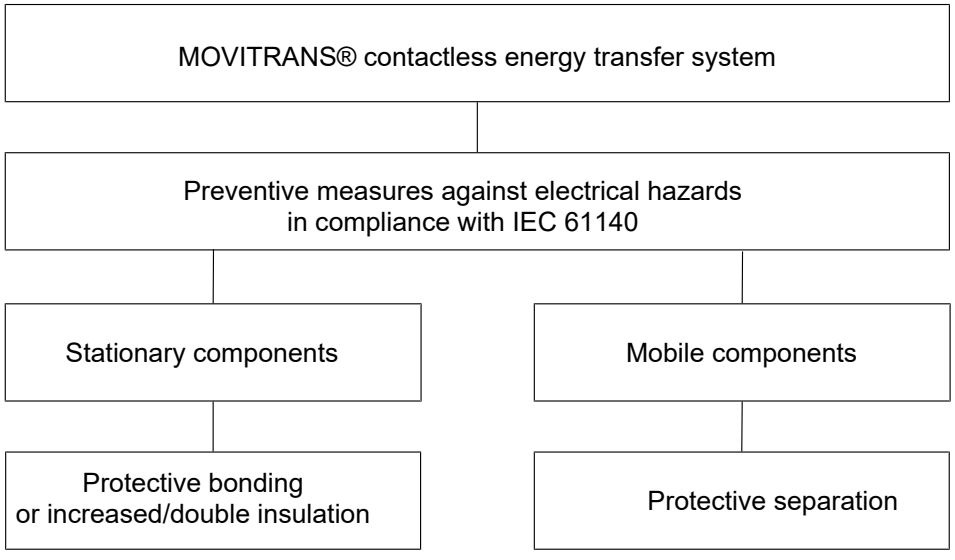
Comply with the following points when installing the cables:

- Route power cables and signal lines in separate cable ducts.
- Maintain the greatest possible distance between power cables and signal lines.
- Avoid using long cables running parallel to one another.
- Route the connection cable with a minimum bending radius of 10 × cable diameter. Also observe the specifications of the connection cables.

## 5.3 Preventive measures against electrical hazards

### 5.3.1 Overview

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

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Further information can be found in the "MOVITRANS® Preventive Measures and Planning Information for Systems" manual.

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### 5.3.2 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 protective bonding

**⚠ WARNING**

Electric shock due to faulty ground connection or faulty protective bonding.

Severe or fatal injuries.

- Make sure you install the ground connection and protective bonding correctly.

All electrical operating resources must be protected with a ground connection or protective bonding.

#### Protective separation

All electrical operating resources on the mobile part, such as on a vehicle, must be connected to one another by means of local protective bonding.

- Use the vehicle support frame (vehicle GND) for high-frequency equipotential bonding.
- Establish metallic contacts over a large area.
- Use high-frequency equipotential bonding cables with a minimum cross section of 10 $mm^2$.
- Mark the equipotential bonding cables according to DIN EN 61140 (IEC 61140) and color-code them according to IEC 60445.

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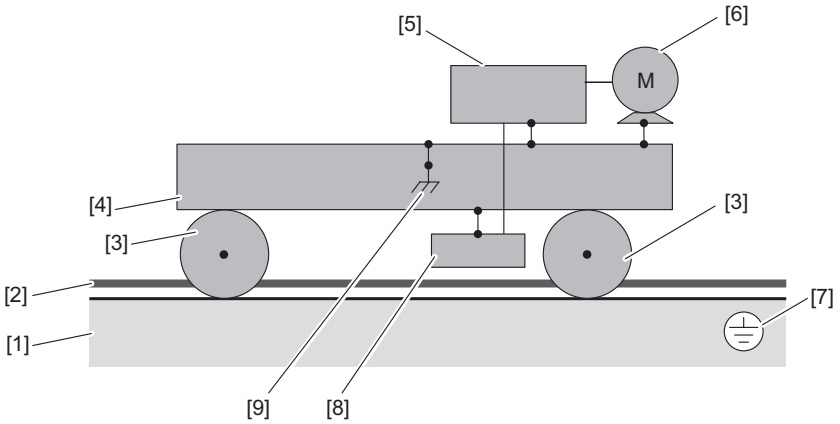
On the mobile system, equipotential bonding ensures that no contact voltages occur in the event of a fault.

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

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

**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 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.

*Equipotential bonding*

The connection point for equipotential bonding is located on the U-shaped shield plate on the connection side of the product.

Connect the connection point to the equipotential bonding of the mobile unit.

1. Attach the equipotential bonding cable to the connection point using the crimp cable lug. To do so, use an M6 screw and washer assembly, a washer, and a stainless steel serrated lock washer. This prevents corrosion on the aluminum.
2. Observe the maximum permitted tightening torque, see chapter "Tightening torques" (→ 🗎 20).

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### Discharge measures

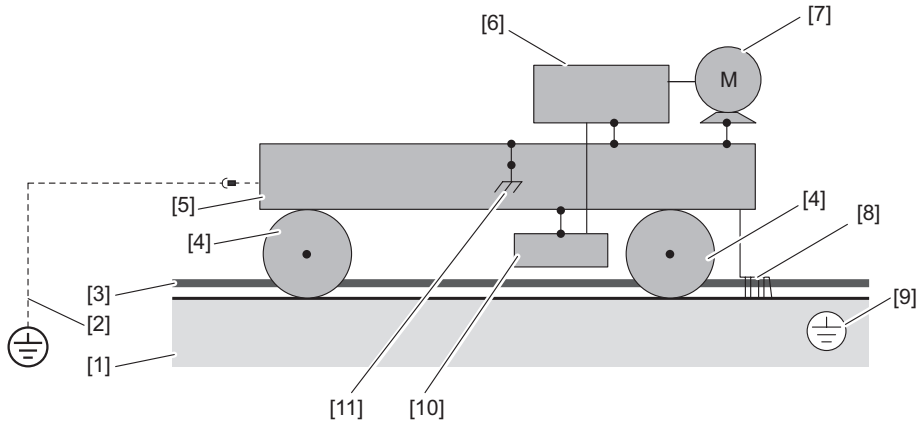
To ensure optimum protection against electrostatic discharge (ESD) and capacitive coupling, you have to take measures between the mobile component and the stationary end for dissipating the charges. This is particularly important for mobile systems such as lifting gears, floor conveyor vehicles, or floor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

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

### 5.3.3 Cable fuse protection

Protect the connection cable at connection X2341/X2319 with a single-pole DC fuse. For information on the design and type of the fuse, refer to chapter "Technical data" (→ 🗎 41).

Insulate the unused conductor (2) of the 4-pin connection cable against protective bonding, other conductive parts that can be touched, other circuits, and against conductors 1 and 3.

## 5.4 Connections

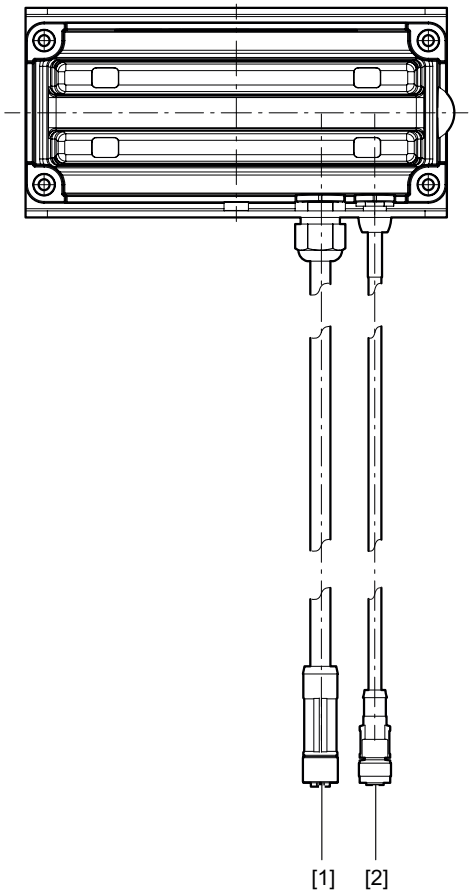
### ⚠ WARNING

Electric shock when disconnecting or connecting voltage-carrying plug connectors.

Severe or fatal injuries.

- Disconnect all supply voltages.
- Make sure that the device is de-energized.
- Never plug or unplug the plug connectors while they are energized.

For the connection designations, refer to the labeling on the cable end. Note that you tighten the knurled screw connections after you have plugged in the plug connectors.




*18014430194892811*

[1] X2341 TDM90C (352 V): Power output DC 352 V
X2319 TDM90C (55 V) and TDM90C (48 V): Power output DC 48 V/55 V
[2] X5221 Storage bundle monitoring (galvanically isolated)

Observe the permitted tightening torques when installing the plug connectors, see chapter "Tightening torques" (→ 🗎 20).

### INFORMATION

For mounting the M12 plug connectors to the connections, SEW-EURODRIVE recommends the following assembly tool from PHOENIX CONTACT: Torque screwdriver (part number: 1208429) with connector cap (part number: 1208432).

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## 5.5 Electrical connections

### 5.5.1 Representation of connections

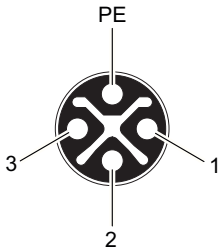
The diagrams show the contact end of the connections.

### 5.5.2 X2341: DC power output

| Function |
|---|
| Charging a double-layer capacitor storage module |

| Connection type |
|---|
| M12, 4-pin, female, S(ac)-coded |

**Wiring diagram**




| No. | Name | Function |
|---|---|---|
| 1 | +Uz | Connection Energy storage (+) |
| 2 | n. c. | Not assigned |
| 3 | -Uz | Connection Energy storage (-) |
| PE | n. c. | Not assigned |

**Information on connection X2341**

PE is **not** wired internally at connection X2341.

Use the connection point on the U-shaped shield plate to connect the equipotential bonding, see chapter "Equipotential bonding" (→ 🗎 26).

**Connection cables**

| Cable | Length/installation type | Component |
|---|---|---|
| 10 m: Part number: 25676830<br>  <br>M12 male ↔ open | Fixed length<br>  | |

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| Cable | Length/installation type | Component |
|---|---|---|
| 10 m: Part number: 25676849<br>  <br>M12 male ↔ open | Fixed length<br>  | |

*Conductor assignment*

| Part number | Signal name | Conductor color |
|---|---|---|
| 25676830<br>25676849 | +Uz | Black/1 |
| | -Uz | Black/3 |
| | PA | Green/yellow |

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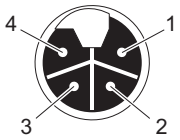
### 5.5.3 X2319: DC power output

| Function |
|---|
| Charging a double-layer capacitor storage module |

| Connection type |
|---|
| M12, 4-pin, female, L-coded |

| Wiring diagram |
|---|
|  |



| No. | Name | Function |
|---|---|---|
| 1 | +Uz | Energy storage (+) connection |
| 2 | n. c. | Not connected |
| 3 | -Uz | Energy storage (-) connection |
| 4 | n. c. | Not connected |

**Connection cables**

| Cable | Length/installation type | Component |
|---|---|---|
| **Standard lengths:**<br>1.5 m: Part number 25764772<br>3 m: Part number 25765884<br>  <br>M12, 4-pin, male, L-coded ↔ open | Fixed length<br>  | |

*Conductor assignment*

| Part number | Signal name | Conductor color |
|---|---|---|
| 25764772<br>25765884 | +Uz | Brown |
| | n.c. | White |
| | -Uz | Blue |
| | n.c. | Black |

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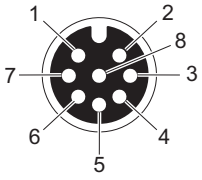
### 5.5.4 X5221: Storage bundle monitoring (galvanically isolated)

| Function |
|---|
| Connection for monitoring the operating state of a MOVI-DPS® storage bundle (galvanically isolated) |

| Connection type |
|---|
| M12, 8-pin, female, A-coded |

**Pin assignment**




| No. | Name | Function |
|---|---|---|
| 1 | +5V | DC 5 V output |
| 2 | ES_DIAG1 | Energy storage system – diagnostic signal 1 |
| 3 | ES_DIAG2 | Energy storage system – diagnostic signal 2 |
| 4 | ES_DIAG3 | Energy storage system – diagnostic signal 3 |
| 5 | 0V5 | 0V5 reference potential |
| 6 | ES_DIAG4 | Energy storage system – diagnostic signal 4 |
| 7 | ES_DIAG5 | Energy storage system – diagnostic signal 5 |
| 8 | res. | Reserved |

**Connection cables**

| Cable | Length/installation type | Component |
|---|---|---|
| **Standard lengths:**<br>1.5 m: Part number 19115881<br>3 m: Part number 18161103<br>**Order-specific lengths:**<br>1 m: Part number 18161073<br>2 m: Part number 18161081<br>4 m: Part number 18161111<br>5 m: Part number 18161138<br>  <br>M12, male, A-coded ↔ M12, female | Fixed length<br>  | MOVI-DPS® storage bundle |

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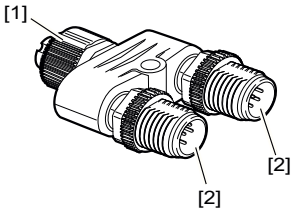
| Cable | Length/installation type | Component |
|---|---|---|
| **Order-specific lengths:**<br>1 m: Part number 18161146<br>2 m: Part number 18161154<br>3 m: Part number 18161162<br>4 m: Part number 18161170<br>5 m: Part number 18161189<br>  <br>M12, male, A-coded ↔ M12, female | Fixed length<br>  | MOVI-DPS® storage bundle |
| **Order-specific lengths:**<br>1.5 m: Part number 25645749<br>  <br>M12, male, A-coded ↔ M12, female, A-coded | Fixed length<br>  | MOVI-DPS® storage bundle |

**Y adapter**

Part number: 25646567

Connection: 3 × M12

Y adapter for parallel connection of several TDM pick-ups with a MOVI-DPS® storage bundle

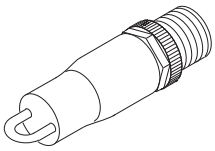



[1] Connection X5222 at the MOVI-DPS® storage bundle
[2] Connection cable of the TDM pick-up (connection X5221)

**Jumper plug**

Part number: 28217063

Connection: M12



## 5.6 Connect the pick-up with or without MOVI-DPS® storage bundle

**Operation of the pick-up with** MOVI-DPS® **EKV storage bundle**

Connect the X5221 connection to the storage bundle, see "Technical diagram (wiring) TDM90C ↔ MOVI-DPS® storage bundle" (→ 🗎 35).

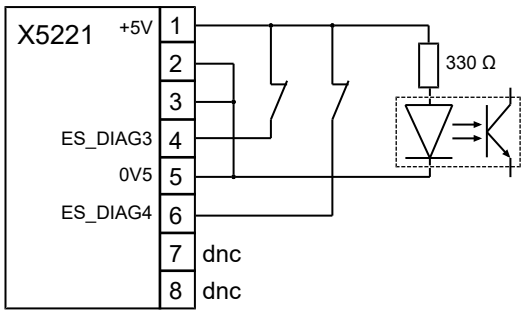
**Operation of the pick-up without** MOVI-DPS® **EKV storage bundle**

If you do not want to use diagnostic signals of connection X5221, you can connect the connection with "the jumper plug" (→ 🗎 33).

To enable charging mode and to signal the readiness for charging, you must connect the X5221 connection to an external isolated interface. Observe the following requirements:

- For charging enable, connect pin 1 (+5 V) with low-impedance to inputs ES_DIAG3 (pin 4) and ES_DIAG4 (pin 6). The connection of an optocoupler or relay is permitted.
- An optocoupler can be applied to the 5 V output to signal that it is ready for charging. The current must not exceed 15 mA. Pins 2 and 3 must be connected to pin 5.
- Pins 7 and 8 must remain open.

As an example, the following figure shows the wiring of an isolated interface:

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## 5.7 Technical diagram (wiring) TDM90C ↔ MOVI-DPS® MOVI-DPS® storage bundle

### 5.7.1 Several pick-ups, each with a storage bundle

The TDM90C005-D35-B03-0 pick-up is approved for series connection with one MOVI-DPS® EKV storage bundle each.

The DC link voltage increases with this connection type. The transmitted power also increases.

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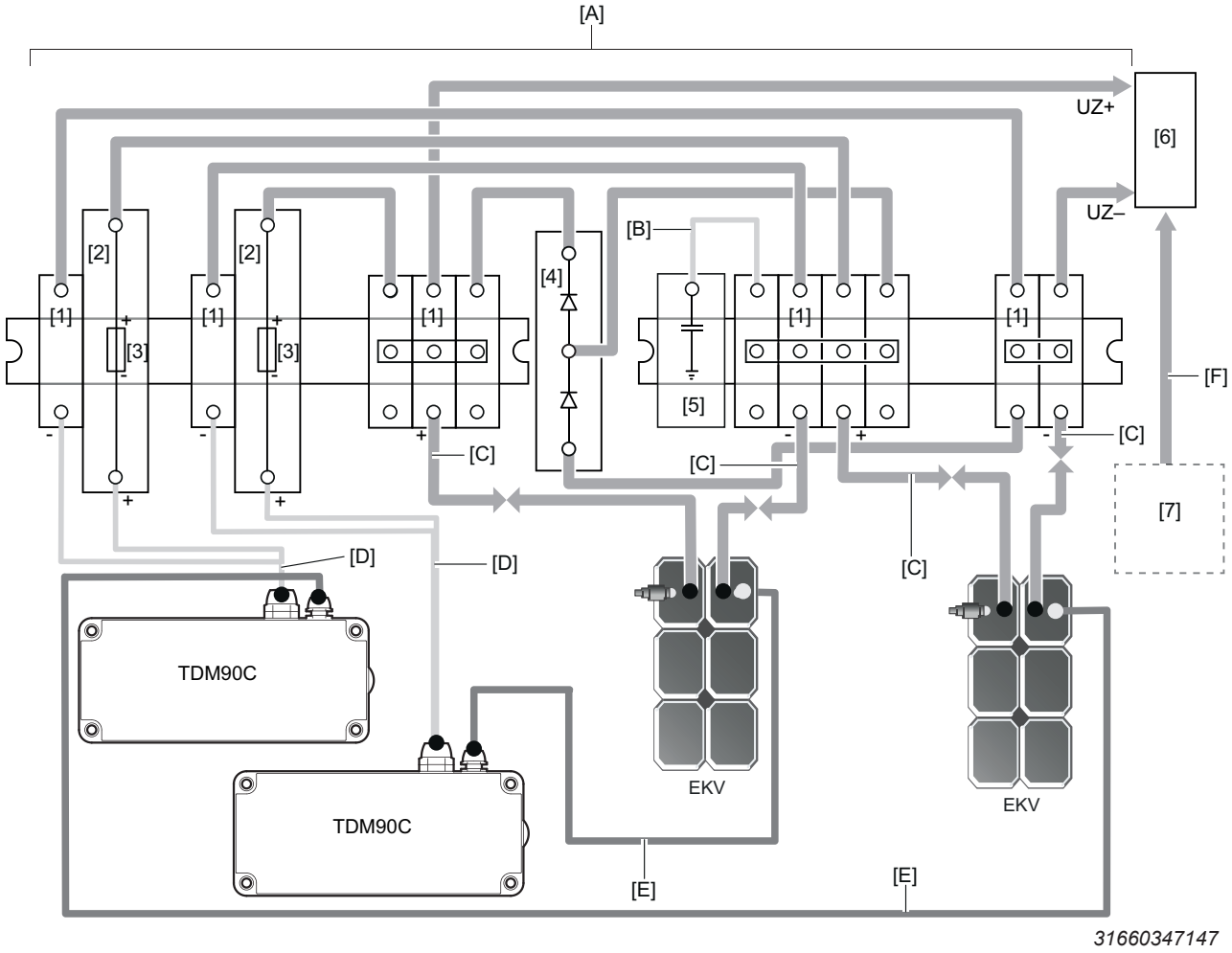
As an example, the following figure shows the series connection of 2 pick-ups TDM90C005-D35-B03-0.




[1] Terminal block
[2] Fuse PCB
[3] Fuse-link DC 10 A, 1 kV, operating class gPV
For example, Siba, part number 5021528.10 [1)]
[4] Diode module
For example, Semikron, part number 07897022, type SKKD26 [1)]
[5] 4-fold capacitance module
For example, Phoenix Conclock, part number 2748069, type TT-SLKK 5-C 12N-230AC [1)]
[6] Interface terminal block (at the customer site)
The distributor provides the DC link voltage (UZ+ and UZ-) for the frequency inverter and the discharge unit.
[7] MOVI-DPS® discharge unit
For discharging the MOVI-DPS® EKV storage bundle, for example, in case of maintenance work.
[A] Power cable 6 mm² (short-circuit proof)
[B] Power cable 1.5 mm² Cu
[C] Connection cable for the power connections of the MOVI-DPS® storage bundle EKV
[D] "Connection cable" (→ 🗎 29) for TDM90C005-D35-B03-0 pick-up (X2341 DC 352 V power output)
[E] "Connection cables" (→ 🗎 32) for monitoring the MOVI-DPS® EKV storage bundle
[F] Connection cable for MOVI-DPS® discharge unit

1) part number at the time of publication of this documentation

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You must connect a power diode [4] in parallel to each storage bundle. Connect the low-impedance series connection point to the equipotential bonding via a Y capacitor [5].

### 5.7.2 Several pick-ups with one storage bundle

All variants of the TDM90C pick-up are approved for parallel connection with a MOVI-DPS® EKV storage bundle.

With this connection type, the power that is transferred to the vehicle increases. The charging time of the storage bundle is shortened.

Note the following points during cabling:

- In principle, you can connect any number of TDM90C pick-ups in parallel. The cabling leads to the storage bundle in a star-type connection. Each pick-up must be secured with a respective line protection with at least one pole.
- Parallel connection of more than 10 TDM90C pick-ups: Contact SEW-EURODRIVE.

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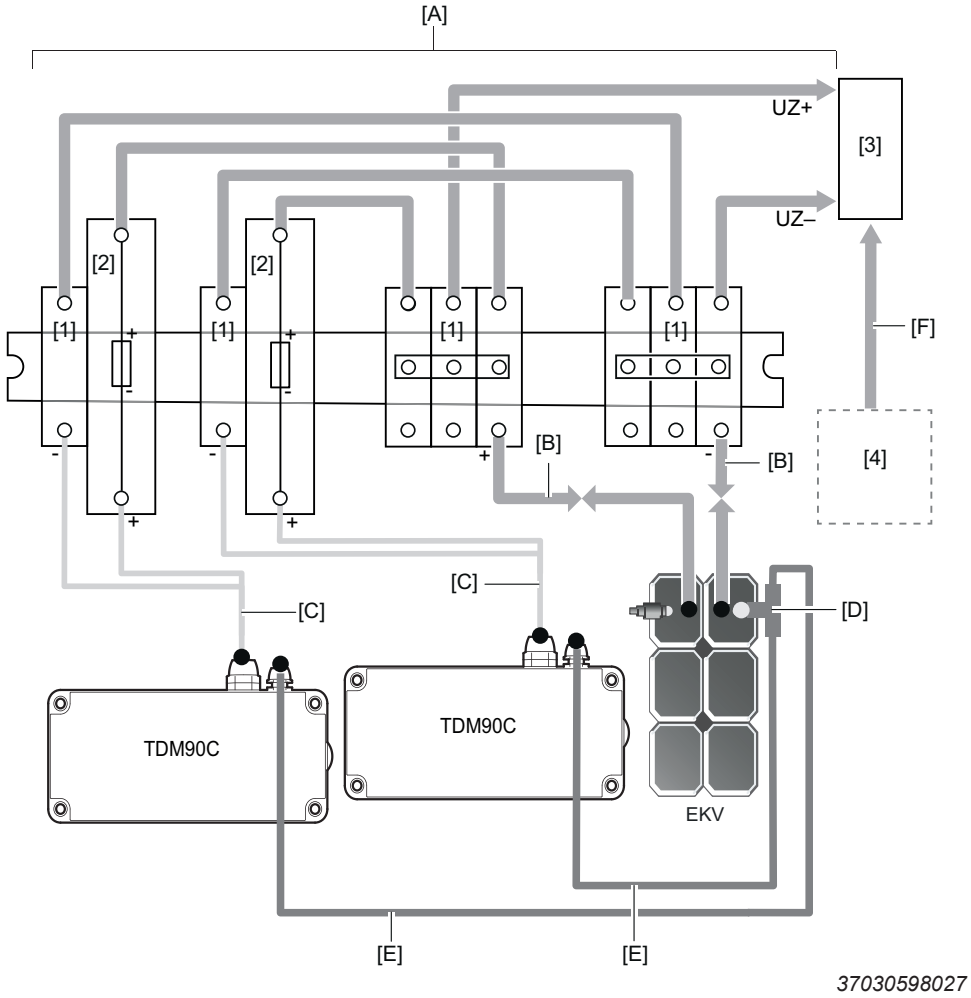
As an example, the following figure shows the parallel connection of 2 pick-ups.




37030598027

[1] Terminal block (partially jumpered)
[2] TDM90C005-D35-B03-0:
Fuse PCB for fuse 10 A DC 400 V
TDM90C005-D06-B03-0, TDM90C005-D05-B03-0 and TDM90C005-D05-B03-1:
Fuse PCB for fuse 16 A DC 60 V
[3] Interface terminal block (at the customer site)
The distributor provides the DC link voltage (UZ+ and UZ-) for the frequency inverter and the discharge unit.
[4] MOVI-DPS® discharge unit
For discharging the MOVI-DPS® storage bundle EKV, for example, in case of maintenance work.
[A] Power cable 6 mm² (short-circuit proof)
[B] Connection cable for the power connections of the MOVI-DPS® storage bundle EKV
[C] "Connection cable" (→ 🗎 29) for TDM90C pick-up (352 V) (X2341 power output DC 352 V)
"Connection cable" (→ 🗎 31) for TDM90C (55 V) and TDM90C (48 V) pick-up (X2319 power output DC 55 V/48 V)
[D] "Y adapter" (→ 🗎 33)
[E] "Connection cable" (→ 🗎 32) for monitoring the MOVI-DPS® storage bundle EKV
[F] Connection cable for MOVI-DPS® discharge unit

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# 6 Operation

## 6.1 For your safety

**⚠ WARNING**

When the device is switched on, dangerous voltages are present at the connectors and at any connected cables and motor terminals. This also applies even when the device is inhibited and the motor is at standstill.

Severe or fatal injuries from electric shock.

- Do not disconnect the device under load.
- Disconnect the device from the voltage supply before you perform any work on the device.

**⚠ CAUTION**

Risk of burns due to hot surfaces of the device or connected options, e.g. braking resistors.

Injury.

- Provide covers to secure hot surfaces.
- Install the protection devices according to the regulations.
- Check the protection devices on a regular basis.
- Let the device and the connected options cool down before you start working on them.

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# 7 Service

## 7.1 Waste disposal

Dispose of the product and all parts separately in accordance with their material structure and the national regulations. Put the product through a recycling process or contact a specialist waste disposal company. If possible, divide the product into the following categories:

- Iron, steel or cast iron
- Stainless steel
- Magnets
- Aluminum
- Copper
- Electronic parts
- Plastics

The following materials are hazardous to health and the environment. These materials must be collected and disposed of separately:

- Oil and grease

  Collect used oil and grease separately according to type. Ensure that the used oil is not mixed with solvent. Dispose of used oil and grease correctly.
- Screens
- Capacitors

**Waste disposal according to WEEE Directive 2012/19/EU**

This product and its accessories may fall within the scope of the country-specific application of the WEEE Directive. Dispose of the product and its accessories according to the national regulations of your country.

For further information, contact the responsible SEW-EURODRIVE branch or an authorized partner of SEW-EURODRIVE.

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# 8 Technical data

## 8.1 Markings

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

### 8.1.1 CE mark

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.

### 8.1.2 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.

## 8.2 TDM90C general pick-up

| General | | |
|---|---|---|
| Ambient temperature | $\vartheta_A$ | -25 °C to +40 °C (at $P_A$)<br>-25 °C to +45 °C (at 0.9 × $P_A$) |
| Climate class | | DIN EN IEC 60721-3-3:2020-05<br>Class 3K22 (with extended temperature range) |
| Storage temperature | $\vartheta_L$ | -25 °C to +75 °C |
| Degree of protection | | IP54 |
| Installation altitude | h | $P_A$ reduction at 1000 m to 2000 m above sea level: 1 % per 100 m |
| Mass | | 2.5 kg |
| Dimension (H × W × D) | | 110 mm × 96 mm × 193 mm |

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## 8.3 TDM90C005-D35-B03-0 pick-up

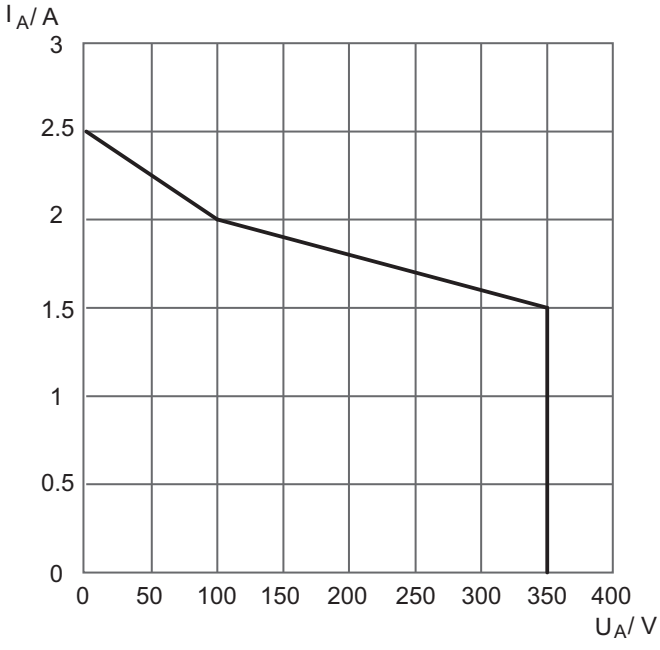
| Input | | |
|---|---|---|
| Nominal current line cable | $I_N$ | AC 30 A eff |
| Operating frequency | $f_A$ | 50 kHz |

| Output | | |
|---|---|---|
| Nominal output power | $P_A$ | 500 W |
| Nominal output voltage | $U_A$ | DC 352 V |
| Overvoltage switch-off (OVP) | $U_{OVP}$ | DC 400 V |
| Nominal output current | $I_A$ | DC 1.5 A |
| Short-circuit current | $I_K$ | < 2.5 A |
| Output characteristics | DC current source | |
| Required minimum load capacity | $C_L$ | 2 mF |
| Required DC voltage fuse, external | Si | Fuse-link DC 10 A, 1 kV<br>Utilization category gPV<br>Siba part number 5021528.10 [1)] |

1) part number at the time of publication of this documentation

| Inductive feedback on the track | |
|---|---|
| At nominal distance and in no-load operation | 2.07 µH |
| At nominal distance and under nominal load | 2.23 µH |

The following figure shows an example of a typical output characteristic curve.




*18014430885209867*

$I_A$ Nominal output current
$U_A$ Nominal output voltage

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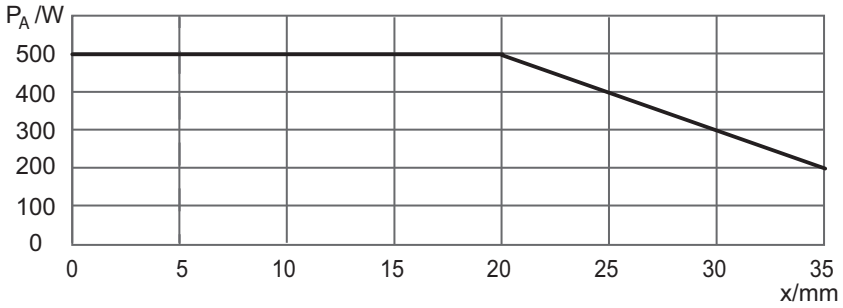
The position-dependent power output (derating) is shown below.




*18014435586688011*

$P_A$ Nominal output power
x Distance between pick-up and line cable holder, see chapter "Installation" (→ 🖹 21)

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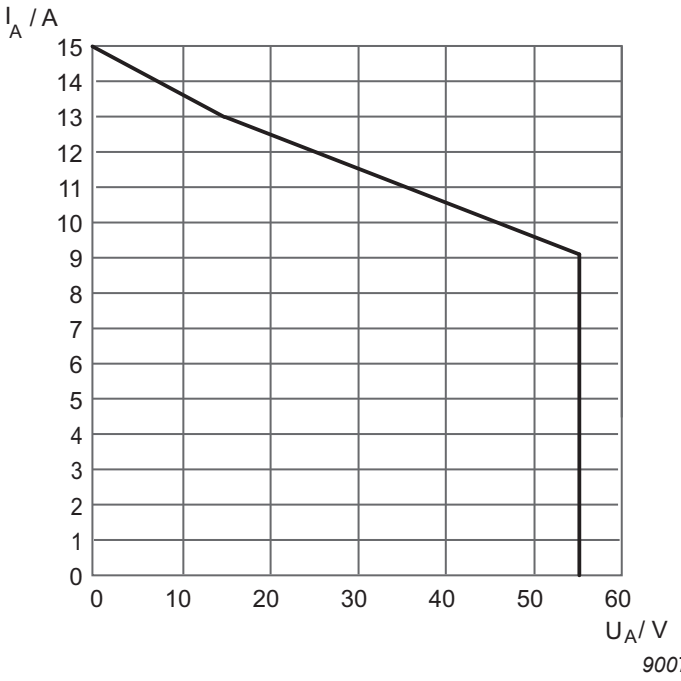
## 8.4 TDM90C005-D06-B03-0 pick-up

| Input | | |
|---|---|---|
| Nominal current line cable | $I_N$ | AC 30 A eff |
| Operating frequency | $f_A$ | 50 kHz |

| Output | | |
|---|---|---|
| Nominal output power | $P_A$ | 500 W |
| Nominal output voltage | $U_A$ | DC 55 V |
| Overvoltage switch-off (OVP) | $U_{OVP}$ | DC 64 V |
| Nominal output current | $I_A$ | DC 9.1 A |
| Short-circuit current | $I_K$ | < 15 A |
| Output characteristics | DC current source | |
| Required minimum load capacity | $C_L$ | 2 mF |
| Required DC voltage fuse, external | Si | Fuse-link DC 16 A, 60 V |

| Inductive feedback on the track | |
|---|---|
| At nominal distance and in no-load operation | 2.01 µH |
| At nominal distance and under nominal load | 2.36 µH |

The following figure shows an example of a typical output characteristic curve.




*9007236289436171*

$I_A$ Nominal output current
$U_A$ Nominal output voltage

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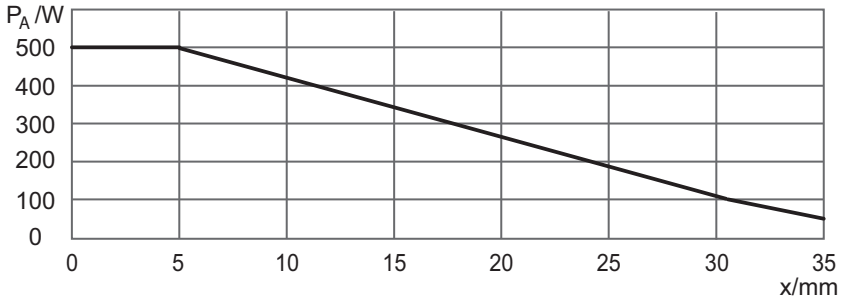
The position-dependent power output (derating) is shown below.




*18014435586691723*

$P_A$ Nominal output power
x Distance between pick-up and line cable holder, see chapter "Installation" (→ 🗎 21)

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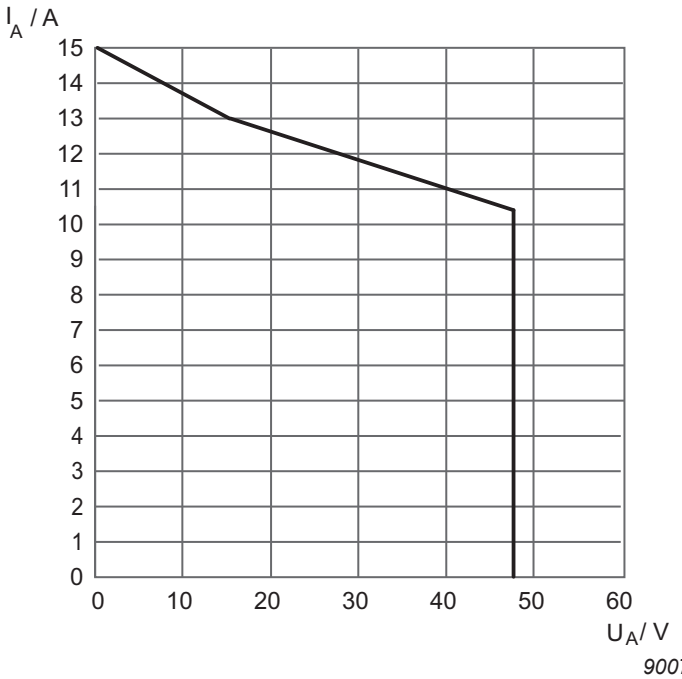
## 8.5 Pick-ups TDM90C005-D05-B03-0 and TDM90C005-D05-B03-1

| **Input** | | |
|---|---|---|
| Nominal current line cable | $I_N$ | AC 30 A eff |
| Operating frequency | $f_A$ | 50 kHz |

| **Output** | | |
|---|---|---|
| Nominal output power | $P_A$ | 500 W |
| Nominal output voltage | $U_A$ | DC 48 V |
| Overvoltage switch-off (OVP) | $U_{OVP}$ | DC 64 V |
| Nominal output current | $I_A$ | DC 10.4 A |
| Short-circuit current | $I_K$ | < 15 A |
| Output characteristics | DC current source | |
| Required minimum load capacity | $C_L$ | 2 mF |
| Required DC voltage fuse, external | Si | Fuse-link DC 16 A, 60 V |

| **Inductive feedback on the track** | |
|---|---|
| At nominal distance and in no-load operation | 1.75 µH |
| At nominal distance and under nominal load | 1.99 µH |

The following figure shows an example of a typical output characteristic curve.




*9007236289432203*

$I_A$ Nominal output current
$U_A$ Nominal output voltage

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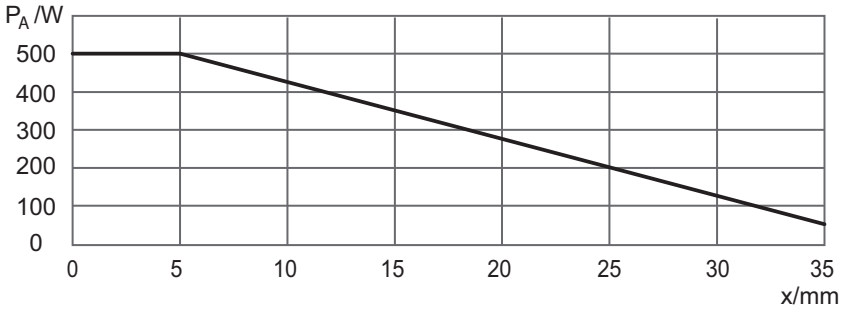
The position-dependent power output (derating) is shown below.




*18014435586695435*

$P_A$ Nominal output power
x Distance between pick-up and line cable holder, see chapter "Installation" (→ 🗎 21)

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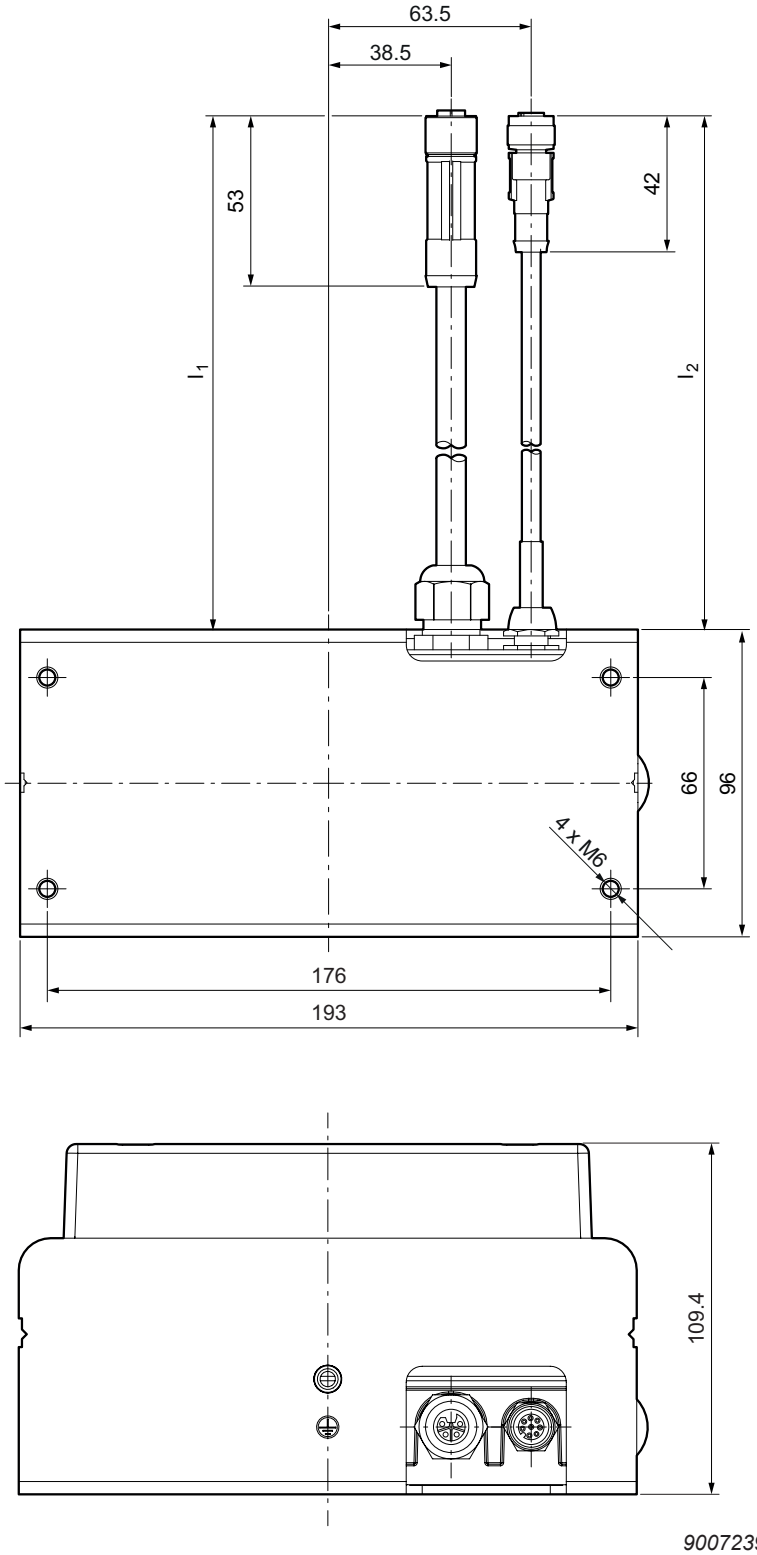
## 8.6 Dimension drawings

### 8.6.1 TDM90C pick-up

The dimension drawing shows the mechanical dimensions in mm:

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| Cable length (including connector) | TDM90C005-D..-B03-0 | TDM90C005-D05-B03-1 |
|---|---|---|
| $l_1$ | 433 mm ± 15 mm | 640 mm ± 10 mm |
| $l_2$ | 422 mm ± 15 mm | 640 mm ± 10 mm |

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# 9 Address list

| | | | |
|---|---|---|---|
| **Argentina** | | | |
| Assembly<br>Sales | Buenos Aires | SEW EURODRIVE ARGENTINA S.A.<br>Ruta Panamericana Km 37.5, Lote 35<br>(B1619IEA) Centro Industrial Garín<br>Prov. de Buenos Aires | Tel. +54 3327 4572-84<br>Fax +54 3327 4572-21<br>http://www.sew-eurodrive.com.ar<br>sewar@sew-eurodrive.com.ar |
| **Australia** | | | |
| Assembly<br>Sales<br>Service | Melbourne | SEW-EURODRIVE PTY. LTD.<br>27 Beverage Drive<br>Tullamarine, Victoria 3043 | Tel. +61 3 9933-1000<br>Fax +61 3 9933-1003<br>http://www.sew-eurodrive.com.au<br>enquires@sew-eurodrive.com.au |
| | Sydney | SEW-EURODRIVE PTY. LTD.<br>9, Sleigh Place, Wetherill Park<br>New South Wales, 2164 | Tel. +61 2 9725-9900<br>Fax +61 2 9725-9905<br>enquires@sew-eurodrive.com.au |
| Service | Tomago | SEW-EURODRIVE PTY. LTD.<br>8 Epson Drive<br>Tomago, New South Wales, 2322 | Tel. +61 2 49505585<br>mail@sew-eurodrive.com.au |
| **Austria** | | | |
| Assembly<br>Sales<br>Service | Vienna | SEW-EURODRIVE Ges.m.b.H.<br>Richard-Strauss-Straße 24<br>1230 Wien | Tel. +43 1 617 55 00-0<br>Fax +43 1 617 55 00-30<br>http://www.sew-eurodrive.at<br>sew@sew-eurodrive.at |
| **Bangladesh** | | | |
| Sales | Bangladesh | SEW-EURODRIVE INDIA PRIVATE LIMITED<br>345 DIT Road<br>East Rampura<br>Dhaka-1219, Bangladesh | Tel. +88 01729 097309<br>salesdhaka@seweurodrivebangladesh.com |
| **Belarus** | | | |
| Sales | Minsk | Foreign unitary production enterprise SEW-EURODRIVE<br>Novodvorskij village council 145<br>223016, Minsk region | Tel. +375 17 319 47 56 / +375 17 378 47 58<br>Fax +375 17 378 47 54<br>http://www.sew-eurodrive.by<br>sew@sew-eurodrive.by |
| **Belgium** | | | |
| Assembly<br>Sales<br>Service | Brussels | SEW-EURODRIVE n.v./s.a.<br>Researchpark Haasrode 1060<br>Evenementenlaan 7<br>3001 Haasrode | Tel. +32 16 386-311<br>Fax +32 16 386-336<br>http://www.sew-eurodrive.be<br>info@sew-eurodrive.be |
| Service Competence Center | Industrial Gears | SEW-EURODRIVE n.v./s.a.<br>Rue du Parc Industriel, 31<br>6900 Marche-en-Famenne | Tel. +32 84 219-878<br>Fax +32 84 219-879<br>http://www.sew-eurodrive.be<br>info@sew.be |
| **Brazil** | | | |
| Production<br>Sales<br>Service | São Paulo | SEW-EURODRIVE Brasil Ltda.<br>Estrada Municipal José Rubim, 205 – Rodovia Santos Dumont Km 49<br>Indaiatuba – 13347-510 – SP | Tel. +55 19 3835-8000<br>sew@sew.com.br |
| Assembly<br>Sales<br>Service | Rio Claro | SEW-EURODRIVE Brasil Ltda.<br>Rodovia Washington Luiz, Km 172<br>Condomínio Industrial Conpark<br>Caixa Postal: 327<br>13501-600 – Rio Claro / SP | Tel. +55 19 3522-3100<br>Fax +55 19 3524-6653<br>montadora.rc@sew.com.br |
| | Joinville | SEW-EURODRIVE Brasil Ltda. Jvl / Ind<br>Rua Dona Francisca, 12.346 – Pirabeiraba<br>89239-270 – Joinville / SC | Tel. +55 47 3027-6886<br>Fax +55 47 3027-6888<br>filial.sc@sew.com.br |
| **Bulgaria** | | | |
| Sales | Sofia | BEVER-DRIVE GmbH<br>Bogdanovetz Str.1<br>1606 Sofia | Tel. +359 2 9151160<br>Fax +359 2 9151166<br>bever@bever.bg |

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| **Cameroon** | | | |
| Sales | Douala | SEW-EURODRIVE SARLU<br>Ancienne Route Bonabéri<br>P.O. Box<br>B.P 8674<br>Douala-Cameroun | Tel. +237 233 39 12 35<br>Fax +237 233 39 02 10<br>www.sew-eurodrive.ci/<br>info@sew-eurodrive.cm |
| **Canada** | | | |
| Assembly<br>Sales<br>Service | Toronto | SEW-EURODRIVE CO. OF CANADA LTD.<br>210 Walker Drive<br>Bramalea, ON L6T 3W1 | Tel. +1 905 791-1553<br>Fax +1 905 791-2999<br>http://www.sew-eurodrive.ca<br>l.watson@sew-eurodrive.ca |
| | Vancouver | SEW-EURODRIVE CO. OF CANADA LTD.<br>Tilbury Industrial Park<br>7188 Honeyman Street<br>Delta, BC V4G 1G1 | Tel. +1 604 946-5535<br>Fax +1 604 946-2513<br>b.wake@sew-eurodrive.ca |
| | Montreal | SEW-EURODRIVE CO. OF CANADA LTD.<br>2001 Ch. de l'Aviation<br>Dorval<br>Quebec H9P 2X6 | Tel. +1 514 367-1124<br>Fax +1 514 367-3677<br>n.paradis@sew-eurodrive.ca |
| **Chile** | | | |
| Assembly<br>Sales<br>Service | Santiago de Chile | SEW-EURODRIVE CHILE LTDA<br>Las Encinas 1295<br>Parque Industrial Valle Grande<br>LAMPA<br>Santiago de Chile<br>P.O. Box<br>Casilla 23 Correo Quilicura - Santiago - Chile | Tel. +56 2 2757 7000<br>Fax +56 2 2757 7001<br>http://www.sew-eurodrive.cl<br>ventas@sew-eurodrive.cl |
| **China** | | | |
| Production<br>Assembly<br>Sales<br>Service | Tianjin | SEW-EURODRIVE (Tianjin) Co., Ltd.<br>No. 78, 13th Avenue, TEDA<br>Tianjin 300457 | Tel. +86 22 25322612<br>Fax +86 22 25323273<br>http://www.sew-eurodrive.cn<br>info@sew-eurodrive.cn |
| Assembly<br>Sales<br>Service | Suzhou | SEW-EURODRIVE (Suzhou) Co., Ltd.<br>333, Suhong Middle Road<br>Suzhou Industrial Park<br>Jiangsu Province, 215021 | Tel. +86 512 62581781<br>Fax +86 512 62581783<br>suzhou@sew-eurodrive.cn |
| | Guangzhou | SEW-EURODRIVE (Guangzhou) Co., Ltd.<br>No. 9, JunDa Road<br>East Section of GETDD<br>Guangzhou 510530 | Tel. +86 20 82267890<br>Fax +86 20 82267922<br>guangzhou@sew-eurodrive.cn |
| | Shenyang | SEW-EURODRIVE (Shenyang) Co., Ltd.<br>10A-2, 6th Road<br>Shenyang Economic Technological Development Area<br>Shenyang, 110141 | Tel. +86 24 25382538<br>Fax +86 24 25382580<br>shenyang@sew-eurodrive.cn |
| | Taiyuan | SEW-EURODRIVE (Taiyuan) Co,. Ltd.<br>No.3, HuaZhang Street,<br>TaiYuan Economic & Technical Development Zone<br>ShanXi, 030032 | Tel. +86-351-7117520<br>Fax +86-351-7117522<br>taiyuan@sew-eurodrive.cn |
| | Wuhan | SEW-EURODRIVE (Wuhan) Co., Ltd.<br>10A-2, 6th Road<br>No. 59, the 4th Quanli Road, WEDA<br>430056 Wuhan | Tel. +86 27 84478388<br>Fax +86 27 84478389<br>wuhan@sew-eurodrive.cn |
| | Xi'An | SEW-EURODRIVE (Xi'An) Co., Ltd.<br>No. 12 Jinye 2nd Road<br>Xi'An High-Technology Industrial Development Zone<br>Xi'An 710065 | Tel. +86 29 68686262<br>Fax +86 29 68686311<br>xian@sew-eurodrive.cn |
| Assembly | Tianjin | SEW-EURODRIVE (Tianjin) Co., Ltd.<br>No. 66, 10th Avenue, TEDA<br>Tianjin 300457 | Tel. +86 22 25322612<br>Fax +86 22 25322611<br>http://www.sew-sew-eurodrive.cn<br>info@sew-eurodrive.cn |

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| **China** | | | |
| Sales<br>Service | Hong Kong | SEW-EURODRIVE LTD.<br>Unit No. 801-806, 8th Floor<br>Hong Leong Industrial Complex<br>No. 4, Wang Kwong Road<br>Kowloon, Hong Kong | Tel. +852 36902200<br>Fax +852 36902211<br>contact@sew-eurodrive.hk |
| **Colombia** | | | |
| Assembly<br>Sales<br>Service | Bogota | SEW-EURODRIVE COLOMBIA LTDA.<br>Calle 17 No. 132-18<br>Interior 2 Bodega 6, Manzana B<br>Santafé de Bogotá | Tel. +57 1 54750-50<br>Fax +57 1 54750-44<br>http://www.sew-eurodrive.com.co<br>sew@sew-eurodrive.com.co |
| **Croatia** | | | |
| Sales<br>Service | Zagreb | KOMPEKS d. o. o.<br>Zeleni dol 10<br>10 000 Zagreb | Tel. +385 1 4613-158<br>Fax +385 1 4613-158<br>kompeks@inet.hr |
| **Czech Republic** | | | |
| Assembly<br>Sales<br>Service | Hostivice | SEW-EURODRIVE CZ s.r.o.<br>Floriánova 2459<br>253 01 Hostivice | Tel. +420 255 709 601<br>Fax +420 235 350 613<br>http://www.sew-eurodrive.cz<br>sew@sew-eurodrive.cz |
| **Denmark** | | | |
| Assembly<br>Sales<br>Service | Copenhagen | SEW-EURODRIVEA/S<br>Geminivej 28-30<br>2670 Greve | Tel. +45 43 95 8500<br>Fax +45 43 9585-09<br>http://www.sew-eurodrive.dk<br>sew@sew-eurodrive.dk |
| Service | Vejle | SEW-EURODRIVE A/S<br>Bødkervej 2<br>7100 Vejle | Tel. +45 43 9585 00<br>http://www.sew-eurodrive.dk<br>sew@sew-eurodrive.dk |
| **Egypt** | | | |
| Technical Office | Cairo | SEW-EURODRIVE Representative Office in Egypt<br>REGUS Paramount Business Complex, Block 1258M, Unit 1, Ground Floor, Sheraton Heliopolis<br>Cairo | Tel. +20 2 2503 2807<br>Fax +20 2 2503 2801<br>info@sew-eurodrive.eg |
| **Estonia** | | | |
| Sales | Tallin | ALAS-KUUL AS<br>Loomäe tee 1, Lehmja küla<br>75306 Rae vald Harjumaa | Tel. +372 6593230<br>Fax +372 6593231<br>http://www.alas-kuul.ee<br>info@alas-kuul.ee |
| **Finland** | | | |
| Assembly<br>Sales<br>Service | Hollola | SEW-EURODRIVE OY<br>Vesimäentie 4<br>15860 Hollola | Tel. +358 201 589-300<br>Fax +358 3 780-6211<br>http://www.sew-eurodrive.fi<br>sew@sew.fi |
| Service | Hollola | SEW-EURODRIVE OY<br>Keskikankaantie 21<br>15860 Hollola | Tel. +358 201 589-300<br>Fax +358 3 780-6211<br>http://www.sew-eurodrive.fi<br>sew@sew.fi |
| | Tornio | SEW-EURODRIVE Oy<br>Lossirannankatu 5<br>95420 Tornio | Tel. +358 201 589 300<br>Fax +358 3 780 6211<br>http://www.sew-eurodrive.fi<br>sew@sew.fi |
| Production<br>Assembly | Karkkila | SEW Industrial Gears Oy<br>Santasalonkatu 6, PL 8<br>03620 Karkkila, 03601 Karkkila | Tel. +358 201 589-300<br>Fax +358 201 589-310<br>http://www.sew-eurodrive.fi<br>sew@sew.fi |
| **France** | | | |
| Production<br>Sales | Haguenau | SEW USOCOME<br>48-54 route de Soufflenheim<br>B. P. 20185<br>67506 Haguenau Cedex | Tel. +33 3 88 73 67 00<br>http://www.usocome.com<br>sew@usocome.com |

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| **France** | | | |
| Production | Forbach | SEW USOCOME<br>Zone industrielle<br>Technopôle Forbach Sud<br>B. P. 30269<br>57604 Forbach Cedex | Tel. +33 3 87 29 38 00 |
| | Brumath | SEW USOCOME<br>1 Rue de Bruxelles<br>67670 Mommenheim Cedex | Tel. +33 3 88 37 48 00 |
| Assembly<br>Sales<br>Service | Bordeaux | SEW USOCOME<br>Parc d'activités de Magellan<br>62 avenue de Magellan – B. P. 182<br>33607 Pessac Cedex | Tel. +33 5 57 26 39 00<br>dtcbordeaux@usocome.com |
| | Haguenau | SEW USOCOME<br>48-54 route de Soufflenheim<br>B. P. 20185<br>67506 Haguenau Cedex | Tel. +33 3 88 73 67 00<br>dtchaguenau@usocome.com |
| | Lyon | SEW USOCOME<br>75 rue Antoine Condorcet<br>38090 Vaulx-Milieu | Tel. +33 4 74 99 60 00<br>dtclyon@usocome.com |
| | Nantes | SEW USOCOME<br>Parc d'activités de la forêt<br>4 rue des Fontenelles<br>44140 Le Bignon | Tel. +33 2 40 78 42 00<br>dtcnantes@usocome.com |
| | Paris | SEW USOCOME<br>Zone industrielle<br>2 rue Denis Papin<br>77390 Verneuil l'Étang | Tel. +33 1 64 42 40 80<br>dtcparis@usocome.com |
| **Gabon** | | | |
| Representation: Cameroon | | | |
| **Germany** | | | |
| Headquarters<br>Production<br>Sales | Bruchsal | SEW-EURODRIVE GmbH & Co KG<br>Ernst-Blickle-Straße 42<br>76646 Bruchsal | Tel. +49 7251 75-0<br>Fax +49 7251 75-1970<br>http://www.sew-eurodrive.de<br>sew@sew-eurodrive.de |
| Production / Industrial Gears | Bruchsal | SEW-EURODRIVE GmbH & Co KG<br>Christian-Pähr-Str. 10<br>76646 Bruchsal | Tel. +49 7251 75-0<br>Fax +49 7251 75-2970 |
| Production / Precision Gear Units | Bruchsal | SEW-EURODRIVE GmbH & Co KG<br>Ernst-Blickle-Straße 42<br>76646 Bruchsal | Tel. +49 7251 75-0<br>Fax +49 7251 75-1970<br>sew@sew-eurodrive.de |
| Production | Graben | SEW-EURODRIVE GmbH & Co KG<br>Ernst-Blickle-Straße 1<br>76676 Graben-Neudorf | Tel. +49 7251 75-0<br>Fax +49 7251-2970 |
| Service Competence Center | Mechanics / Mechatronics | SEW-EURODRIVE GmbH & Co KG<br>Ernst-Blickle-Straße 1<br>76676 Graben-Neudorf | Tel. +49 7251 75-1710<br>Fax +49 7251 75-1711<br>scc-mechanik@sew-eurodrive.de |
| | Electronics | SEW-EURODRIVE GmbH & Co KG<br>Christian-Pähr-Straße 12<br>76646 Bruchsal | Tel. +49 7251 75-1780<br>Fax +49 7251 75-1769<br>scc-elektronik@sew-eurodrive.de |
| | MAXOLUTION® Factory Automation | SEW-EURODRIVE GmbH & Co KG<br>Eisenbahnstraße 11<br>76646 Bruchsal | Tel. +49 7251 75-0<br>Fax +49 7251 75-1970<br>sew@sew-eurodrive.de |
| Drive Technology Center | North | SEW-EURODRIVE GmbH & Co KG<br>Alte Ricklinger Straße 43<br>30823 Garbsen (Hannover) | Tel. +49 5137 8798-30<br>Fax +49 5137 8798-55<br>dtc-nord@sew-eurodrive.de |
| | East | SEW-EURODRIVE GmbH & Co KG<br>Dänkritzer Weg 1<br>08393 Meerane (Zwickau) | Tel. +49 3764 7606-0<br>Fax +49 3764 7606-20<br>dtc-ost@sew-eurodrive.de |
| | South | SEW-EURODRIVE GmbH & Co KG<br>Domagkstraße 5<br>85551 Kirchheim (München) | Tel. +49 89 909551-21<br>Fax +49 89 909551-50<br>dtc-sued@sew-eurodrive.de |
| | West | SEW-EURODRIVE GmbH & Co KG<br>Siemensstraße 1<br>40764 Langenfeld (Düsseldorf) | Tel. +49 2173 8507-10<br>Fax +49 2173 8507-50<br>dtc-west@sew-eurodrive.de |

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| **Germany** | | | |
| Drive Center | Berlin | SEW-EURODRIVE GmbH & Co KG<br>Melitta-Schiller-Straße 8<br>12526 Berlin | Tel. +49 306331131-30<br>Fax +49 306331131-36<br>dc-berlin@sew-eurodrive.de |
| | Bremen | SEW-EURODRIVE GmbH & Co KG<br>Allerkai 4<br>28309 Bremen | Tel. +49 421 33918-10<br>Fax +49 421 33918-22<br>dc-bremen@sew-eurodrive.de |
| | Hamburg | SEW-EURODRIVE GmbH & Co KG<br>Hasselbinnen 11<br>22869 Schenefeld | Tel. +49 40298109-60<br>Fax +49 40298109-70<br>dc-hamburg@sew-eurodrive.de |
| | Saarland | SEW-EURODRIVE GmbH & Co KG<br>Gottlieb-Daimler-Straße 4<br>66773 Schwalbach Saar – Hülzweiler | Tel. +49 6831 48946 10<br>Fax +49 6831 48946 13<br>dc-saarland@sew-eurodrive.de |
| | Ulm | SEW-EURODRIVE GmbH & Co KG<br>Dieselstraße 18<br>89160 Dornstadt | Tel. +49 7348 9885-0<br>Fax +49 7348 9885-90<br>dc-ulm@sew-eurodrive.de |
| | Würzburg | SEW-EURODRIVE GmbH & Co KG<br>Nürnbergerstraße 118<br>97076 Würzburg-Lengfeld | Tel. +49 931 27886-60<br>Fax +49 931 27886-66<br>dc-wuerzburg@sew-eurodrive.de |
| Drive Service Hotline / 24 Hour Service | | | 0 800 SEWHELP<br>0 800 7394357 |
| **Great Britain** | | | |
| Assembly<br>Sales<br>Service | Normanton | SEW-EURODRIVE Ltd.<br>DeVilliers Way<br>Trident Park<br>Normanton<br>West Yorkshire<br>WF6 1GX | Tel. +44 1924 893-855<br>Fax +44 1924 893-702<br>http://www.sew-eurodrive.co.uk<br>info@sew-eurodrive.co.uk |
| **Greece** | | | |
| Sales | Athens | Christ. Boznos & Son S.A.<br>12, K. Mavromichali Street<br>P.O. Box 80136<br>18545 Piraeus | Tel. +30 2 1042 251-34<br>Fax +30 2 1042 251-59<br>http://www.boznos.gr<br>info@boznos.gr |
| **Hungary** | | | |
| Sales<br>Service | Budapest | SEW-EURODRIVE Kft.<br>Csillaghegyí út 13.<br>1037 Budapest | Tel. +36 1 437 06-58<br>Fax +36 1 437 06-50<br>http://www.sew-eurodrive.hu<br>office@sew-eurodrive.hu |
| **Iceland** | | | |
| Sales | Reykjavik | Varma & Vélaverk ehf.<br>Knarrarvogi 4<br>104 Reykjavík | Tel. +354 585 1070<br>Fax +354 585)1071<br>https://vov.is/<br>vov@vov.is |
| **India** | | | |
| Registered Office<br>Assembly<br>Sales<br>Service | Vadodara | SEW-EURODRIVE India Private Limited<br>302, NOTUS IT PARK,<br>Sarabhai Campus,<br>Beside Notus Pride, Genda Circle,<br>Vadodara 390023<br>Gujarat | Tel. +91 265 3045200<br>Fax +91 265 3045300<br>https://www.seweurodriveindia.com<br>salesvadodara@seweurodriveindia.com |
| Assembly<br>Sales<br>Service | Chennai | SEW-EURODRIVE India Private Limited<br>Plot No. K3/1, Sipcot Industrial Park Phase II<br>Mambakkam Village<br>Sriperumbudur - 602105<br>Kancheepuram Dist, Tamil Nadu | Tel. +91 44 37188888<br>Fax +91 44 37188811<br>saleschennai@seweurodriveindia.com |
| | Pune | SEW-EURODRIVE India Private Limited<br>Plant: Plot No. D236/1,<br>Chakan Industrial Area Phase- II,<br>Warale, Tal- Khed,<br>Pune-410501, Maharashtra | Tel. +91 21 35 628700<br>Fax +91 21 35 628715<br>salespune@seweurodriveindia.com |
| | Tapukara | SEW-EURODRIVE India Private Limited<br>Plot No SP-6-46, Tapukara, Karoli Industrial Area, No. 1,<br>district : Alwar , Rajasthan - 301707 | Tel. +91 265 3045200<br>Fax +91 265 3045300<br>tapukara.plant@seweurodriveindia.com |

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| **India** | | | |
| Sales | Gurgaon | SEW-EURODRIVE India Private Limited<br>Global Business Park, Sector -26, M.G. Road, Sikanderpur<br>Unit No. 205, 2nd Floor, Tower – D<br>Gurugram 122002, Haryana | Tel. +91 9958376669<br>salesgurgaon@seweurodriveindia.com |
| Drive Center | Raipur | SEW-EURODRIVE India Private Limited<br>Plot unit no. 129/17<br>P.O. GSI-Mandhar<br>District: Raipur, State: Chhattisgarh | Tel. +91 8294630772<br>salesraipur@seweurodriveindia.com |
| **Indonesia** | | | |
| Registered Office<br>Sales<br>Service | Jakarta | PT SEW EURODRIVE INDONESIA<br>Palma Tower, 16th Floor, Unit H & I, Jl R.A. Kartini II-S Kav 06<br>Pondok Pinang, Kebayoran Lama<br>Jakarta Selatan 12310 | Tel. +62 21 7593 0272<br>Fax +62 21 7593 0273<br>sales.indonesia@sew-eurodrive.com<br>https://www.sew-eurodrive.com.sg |
| Sales | Medan | PT. Serumpun Indah Lestari<br>Jl.Pulau Solor no. 8, Kawasan Industri Medan II<br>Medan 20252 | Tel. +62 61 687 1221<br>Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041<br>sil@serumpunindah.com<br>serumpunindah@yahoo.com<br>http://www.serumpunindah.com |
| | Jakarta | PT. Cahaya Sukses Abadi<br>Komplek Rukan Puri Mutiara Blok A no 99, Sunter<br>Jakarta 14350 | Tel. +62 21 65310599<br>Fax +62 21 65310600<br>csajkt@cbn.net.id |
| | Jakarta | PT. Agrindo Putra Lestari<br>JL.Pantai Indah Selatan, Komplek Sentra Industri Terpadu, Pantai indah Kapuk Tahap III, Blok E No. 27<br>Jakarta 14470 | Tel. +62 21 2921-8899<br>Fax +62 21 2921-8988<br>aplindo@indosat.net.id<br>http://www.aplindo.com |
| | Surabaya | PT. TRIAGRI JAYA ABADI<br>Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11<br>Surabaya 60111 | Tel. +62 31 5990128<br>Fax +62 31 5962666<br>sales@triagri.co.id<br>http://www.triagri.co.id |
| | Surabaya | CV. Multi Mas<br>Jl. Raden Saleh 43A Kav. 18<br>Surabaya 60174 | Tel. +62 31 5458589<br>Fax +62 31 5317220<br>sianhwa@sby.centrin.net.id<br>http://www.cvmultimas.com |
| **Ireland** | | | |
| Sales<br>Service | Dublin | Alperton Engineering Ltd.<br>48 Moyle Road<br>Dublin Industrial Estate<br>Glasnevin, Dublin 11 | Tel. +353 1 830-6277<br>Fax +353 1 830-6458<br>http://www.alperton.ie<br>info@alperton.ie |
| **Israel** | | | |
| Sales | Tel Aviv | Liraz Handasa Ltd.<br>Ahofer Str 34B / 228<br>58858 Holon | Tel. +972 3 5599511<br>Fax +972 3 5599512<br>http://www.liraz-handasa.co.il<br>office@liraz-handasa.co.il |
| **Italy** | | | |
| Assembly<br>Sales<br>Service | Milan | SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co.<br>Via Bernini,12<br>20033 Solaro (Milano) | Tel. +39 02 96 980229<br>Fax +39 02 96 980 999<br>http://www.sew-eurodrive.it<br>milano@sew-eurodrive.it |
| **Ivory Coast** | | | |
| Sales | Abidjan | SEW-EURODRIVE SARL<br>Ivory Coast<br>Rue des Pêcheurs, Zone 3<br>26 BP 916 Abidjan 26 | Tel. +225 27 21 21 81 05<br>Fax +225 27 21 25 30 47<br>info@sew-eurodrive.ci<br>http://www.sew-eurodrive.ci |
| **Japan** | | | |
| Assembly<br>Sales<br>Service | Iwata | SEW-EURODRIVE JAPAN CO., LTD<br>250-1, Shimoman-no,<br>Iwata<br>Shizuoka 438-0818 | Tel. +81 538 373811<br>Fax +81 538 373814<br>http://www.sew-eurodrive.co.jp<br>sewjapan@sew-eurodrive.co.jp |

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| **Kazakhstan** | | | |
| Sales<br>Service | Almaty | SEW-EURODRIVE LLP<br>291-291A, Tole bi street<br>050031, Almaty | Tel. +7 (727) 350 5156<br>Fax +7 (727) 350 5156<br>http://www.sew-eurodrive.com<br>kazakhstan@sew-eurodrive.com |
| | Tashkent | Representative Office SEW-EURODRIVE<br>Representative office in Uzbekistan<br>95A Amir Temur ave, office 401/3<br>100084 Tashkent | Tel. +998 97 134 01 99<br>http://www.sew-eurodrive.uz<br>sew@sew-eurodrive.uz |
| | Ulaanbaatar | IM Trading LLC<br>Olympic street 28B/3<br>Sukhbaatar district,<br>Ulaanbaatar 14230, MN | Tel. +976-77109997<br>Fax +976-77109997<br>imt@imt.mn |
| **Latvia** | | | |
| Sales | Riga | SIA Alas-Kuul<br>Katlakalna 11C<br>1073 Riga | Tel. +371 6 7139253<br>Fax +371 6 7139386<br>http://www.alas-kuul.lv<br>info@alas-kuul.com |
| **Lebanon** | | | |
| Sales (Lebanon) | Beirut | Gabriel Acar & Fils sarl<br>B. P. 80484<br>Bourj Hammoud, Beirut | Tel. +961 1 510 532<br>Fax +961 1 494 971<br>ssacar@inco.com.lb |
| Sales (Jordan, Kuwait , Saudi Arabia, Syria) | Beirut | Middle East Drives S.A.L. (offshore)<br>Sin El Fil.<br>B. P. 55-378<br>Beirut | Tel. +961 1 494 786<br>Fax +961 1 494 971<br>http://www.medrives.com<br>info@medrives.com |
| **Lithuania** | | | |
| Sales | Alytus | UAB Irseva<br>Statybininku 106C<br>63431 Alytus | Tel. +370 315 79204<br>Fax +370 315 56175<br>http://www.irseva.lt<br>irmantas@irseva.lt |
| **Luxembourg** | | | |
| Representation: Belgium | | | |
| **Macedonia** | | | |
| Sales | Skopje | Boznos DOOEL<br>Dime Anicin 2A/7A<br>1000 Skopje | Tel. +389 23256553<br>Fax +389 23256554<br>http://www.boznos.mk |
| **Malaysia** | | | |
| Assembly<br>Sales<br>Service | Johor | SEW-EURODRIVE SDN BHD<br>No. 95, Jalan Seroja 39, Taman Johor Jaya<br>81000 Johor Bahru, Johor<br>West Malaysia | Tel. +60 7 3549409<br>Fax +60 7 3541404<br>sales@sew-eurodrive.com.my |
| **Mexico** | | | |
| Assembly<br>Sales<br>Service | Quéretaro | SEW-EURODRIVE MEXICO S.A. de C.V.<br>SEM-981118-M93<br>Tequisquiapan No. 102<br>Parque Industrial Quéretaro<br>C.P. 76220<br>Querétaro, México | Tel. +52 442 1030-300<br>Fax +52 442 1030-301<br>http://www.sew-eurodrive.com.mx<br>scmexico@seweurodrive.com.mx |
| Sales<br>Service | Puebla | SEW-EURODRIVE MEXICO S.A. de C.V.<br>Calzada Zavaleta No. 3922 Piso 2 Local 6<br>Col. Santa Cruz Buenavista<br>C.P. 72154<br>Puebla, México | Tel. +52 (222) 221 248<br>http://www.sew-eurodrive.com.mx<br>scmexico@seweurodrive.com.mx |
| **Mongolia** | | | |
| Technical Office | Ulaanbaatar | IM Trading LLC<br>Olympic street 28B/3<br>Sukhbaatar district,<br>Ulaanbaatar 14230, MN | Tel. +976-77109997<br>Tel. +976-99070395<br>Fax +976-77109997<br>http://imt.mn/<br>imt@imt.mn |

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| **Morocco** | | | |
| Sales<br>Service<br>Assembly | Bouskoura | SEW-EURODRIVE Morocco SARL<br>Parc Industriel CFCIM, Lot. 55/59<br>27182 Bouskoura<br>Grand Casablanca | Tel. +212 522 88 85 00<br>Fax +212 522 88 84 50<br>http://www.sew-eurodrive.ma<br>sew@sew-eurodrive.ma |
| **Namibia** | | | |
| Sales | Swakopmund | DB MINING & INDUSTRIAL SUPPLIES CC<br>Einstein Street<br>Strauss Industrial Park<br>Unit1<br>Swakopmund | Tel. +264 64 462 738<br>Fax +264 64 462 734<br>anton@dbminingnam.com |
| **Netherlands** | | | |
| Assembly<br>Sales<br>Service | Rotterdam | SEW-EURODRIVE B.V.<br>Industrieweg 175<br>3044 AS Rotterdam<br>Postbus 10085<br>3004 AB Rotterdam | Tel. +31 10 4463-700<br>Fax +31 10 4155-552<br>Service: 0800-SEWHELP<br>http://www.sew-eurodrive.nl<br>info@sew-eurodrive.nl |
| **New Zealand** | | | |
| Assembly<br>Sales<br>Service | Auckland | SEW-EURODRIVE NEW ZEALAND LTD.<br>P.O. Box 58-428<br>82 Greenmount drive<br>East Tamaki Auckland | Tel. +64 9 2745627<br>Fax +64 9 2740165<br>http://www.sew-eurodrive.co.nz<br>sales@sew-eurodrive.co.nz |
| | Christchurch | SEW-EURODRIVE NEW ZEALAND LTD.<br>30 Lodestar Avenue, Wigram<br>Christchurch | Tel. +64 3 384-6251<br>Fax +64 3 384-6455<br>sales@sew-eurodrive.co.nz |
| **Nigeria** | | | |
| Sales | Lagos | Greenpeg Nig. Ltd<br>64C Toyin Street Opebi-Allen<br>Ikeja Lagos-Nigeria | Tel. +234-701-821-9200-1<br>http://www.greenpegltd.com<br>sales@greenpegltd.com |
| **Norway** | | | |
| Assembly<br>Sales<br>Service | Moss | SEW-EURODRIVE A/S<br>Hornebergvegen 11 B<br>7038 Trondheim | Tel. +47 69 24 10 20<br>Fax +47 69 24 10 40<br>http://www.sew-eurodrive.no<br>sew@sew-eurodrive.no |
| **Pakistan** | | | |
| Sales | Karachi | Industrial Power Drives<br>Al-Fatah Chamber A/3, 1st Floor Central Commercial Area,<br>Sultan Ahmed Shah Road, Block 7/8,<br>Karachi | Tel. +92 21 452 9369<br>Fax +92-21-454 7365<br>seweurodrive@cyber.net.pk |
| **Paraguay** | | | |
| Sales | Fernando de la Mora | SEW-EURODRIVE PARAGUAY S.R.L<br>Nu Guazu No. 642 casi Campo Esperanza<br>Santisima Trinidad<br>Asuncion | Tel. +595 991 519695<br>Fax +595 21 3285539<br>sewpy@sew-eurodrive.com.py |
| **Peru** | | | |
| Assembly<br>Sales<br>Service | Lima | SEW EURODRIVE DEL PERU S.A.C.<br>Los Calderos, 120-124<br>Urbanizacion Industrial Vulcano, ATE, Lima | Tel. +51 1 3495280<br>Fax +51 1 3493002<br>http://www.sew-eurodrive.com.pe<br>sewperu@sew-eurodrive.com.pe |
| **Philippines** | | | |
| Sales | Makati | P.T. Cerna Corporation<br>4137 Ponte St., Brgy. Sta. Cruz<br>Makati City 1205 | Tel. +63 2 519 6214<br>Fax +63 2 890 2802<br>mech_drive_sys@ptcerna.com<br>http://www.ptcerna.com |
| **Poland** | | | |
| Assembly<br>Sales<br>Service | Łódź | SEW-EURODRIVE Polska Sp.z.o.o.<br>ul. Techniczna 5<br>92-518 Łódź | Tel. +48 42 293 00 00<br>Fax +48 42 293 00 49<br>http://www.sew-eurodrive.pl<br>sew@sew-eurodrive.pl |

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| **Poland** | | | |
| | Service | Tel. +48 42 293 0030<br>Fax +48 42 293 0043 | 24 Hour Service<br>Tel. +48 602 739 739 (+48 602 SEW SEW)<br>serwis@sew-eurodrive.pl |
| **Portugal** | | | |
| Assembly<br>Sales<br>Service | Coimbra | SEW-EURODRIVE, LDA.<br>Av. da Fonte Nova, n.º 86<br>3050-379 Mealhada | Tel. +351 231 20 9670<br>Fax +351 231 20 3685<br>http://www.sew-eurodrive.pt<br>infosew@sew-eurodrive.pt |
| **Romania** | | | |
| Sales<br>Service | Bucharest | Sialco Trading SRL<br>str. Brazilia nr. 36<br>011783 Bucuresti | Tel. +40 21 230-1328<br>Fax +40 21 230-7170<br>http://www.sialco.ro<br>sialco@sialco.ro |
| **Senegal** | | | |
| Sales | Dakar | SENEMECA<br>Mécanique Générale<br>Km 8, Route de Rufisque<br>B.P. 3251, Dakar | Tel. +221 338 494 770<br>Fax +221 338 494 771<br>http://www.senemeca.com<br>senemeca@senemeca.sn |
| **Serbia** | | | |
| Sales | Belgrade | DIPAR d.o.o.<br>Ustanicka 128a<br>PC Košum, IV floor<br>11000 Beograd | Tel. +381 11 347 3244 / +381 11 288 0393<br>Fax +381 11 347 1337<br>office@dipar.rs |
| **Singapore** | | | |
| Assembly<br>Sales<br>Service | Singapore | SEW-EURODRIVE PTE. LTD.<br>9, Tuas Drive 2<br>Singapore 638644 | Tel. +65 68621701<br>Fax +65 68612827<br>http://www.sew-eurodrive.com.sg<br>sewsingapore@sew-eurodrive.com |
| **Slovakia** | | | |
| Drive Technology Center | Bernolákovo | SEW-Eurodrive SK s.r.o.<br>Priemyselná ulica 6267/7<br>900 27 Bernolákovo | Tel.+421 2 48 212 800<br>http://www.sew-eurodrive.sk<br>sew@sew-eurodrive.sk |
| **Slovenia** | | | |
| Representation: Austria | | | |
| **South Africa** | | | |
| Assembly<br>Sales<br>Service | Johannesburg | SEW-EURODRIVE (PROPRIETARY) LIMITED<br>32 O'Connor Place<br>Eurodrive House<br>Aeroton<br>Johannesburg 2190<br>P.O.Box 90004<br>Bertsham 2013 | Tel. +27 11 248-7000<br>Fax +27 11 248-7289<br>http://www.sew.co.za<br>info@sew.co.za |
| | Cape Town | SEW-EURODRIVE (PROPRIETARY) LIMITED<br>Rainbow Park<br>Cnr. Racecourse & Omuramba Road<br>Montague Gardens<br>Cape Town<br>P.O.Box 36556<br>Chempet 7442 | Tel. +27 21 552-9820<br>Fax +27 21 552-9830<br>Telex 576 062<br>bgriffiths@sew.co.za |
| | Durban | SEW-EURODRIVE (PROPRIETARY) LIMITED<br>48 Prospecton Road<br>Isipingo<br>Durban<br>P.O. Box 10433, Ashwood 3605 | Tel. +27 31 902 3815<br>Fax +27 31 902 3826<br>cdejager@sew.co.za |
| | Nelspruit | SEW-EURODRIVE (PROPRIETARY) LIMITED<br>7 Christie Crescent<br>Vintonia<br>P.O.Box 1942<br>Nelspruit 1200 | Tel. +27 13 752-8007<br>Fax +27 13 752-8008<br>robermeyer@sew.co.za |

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| **South Korea** | | | |
| Assembly<br>Sales<br>Service | Ansan | SEW-EURODRIVE Korea Co., Ltd.<br>7, Dangjaengi-ro,<br>Danwon-gu,<br>Ansan-si, Gyeonggi-do, Zip 425-839 | Tel. +82 31 492-8051<br>Fax +82 31 492-8056<br>http://www.sew-eurodrive.kr<br>master.korea@sew-eurodrive.com |
| | Busan | SEW-EURODRIVE Korea Co., Ltd.<br>28, Noksansandan 262-ro 50beon-gil,<br>Gangseo-gu,<br>Busan, Zip 618-820 | Tel. +82 51 832-0204<br>Fax +82 51 832-0230 |
| Assembly<br>Service | Siheung | SEW-EURODRIVE Korea Co., Ltd.<br>35, Emtibeui 26-ro 58beon-gil,<br>Siheung-si, Gyeonggi-do | http://www.sew-eurodrive.kr |
| **Spain** | | | |
| Assembly<br>Sales<br>Service | Bilbao | SEW-EURODRIVE ESPAÑA, S.L.<br>Parque Tecnológico, Edificio, 302<br>48170 Zamudio (Vizcaya) | Tel. +34 94 43184-70<br>http://www.sew-eurodrive.es<br>sew.spain@sew-eurodrive.es |
| **Sri Lanka** | | | |
| Sales | Colombo | SM International (Pte) Ltd<br>254, Galle Raod<br>Colombo 4, Sri Lanka | Tel. +94 1 2584887<br>Fax +94 1 2582981 |
| **Swaziland** | | | |
| Sales | Manzini | C G Trading Co. (Pty) Ltd<br>Simunye street<br>Matsapha, Manzini | Tel. +268 7602 0790<br>Fax +268 2 518 5033<br>charles@cgtrading.co.sz<br>www.cgtradingswaziland.com |
| **Sweden** | | | |
| Assembly<br>Sales<br>Service | Jönköping | SEW-EURODRIVE AB<br>Gnejsvägen 6-8<br>553 03 Jönköping<br>Box 3100 S-550 03 Jönköping | Tel. +46 36 34 42 00<br>Fax +46 36 34 42 80<br>http://www.sew-eurodrive.se<br>jonkoping@sew.se |
| **Switzerland** | | | |
| Assembly<br>Sales<br>Service | Basel | Alfred Imhof AG<br>Jurastrasse 10<br>CH-4142 Münchenstein bei Basel | Tel. +41 61 417 17 17<br>http://www.imhof-sew.ch<br>info@imhof-sew.ch |
| **Taiwan** | | | |
| Sales | Taipei | Ting Shou Trading Co., Ltd.<br>6F-3, No. 267, Sec. 2<br>Tung Huw S. Road<br>Taipei | Tel. +886 2 27383535<br>Fax +886 2 27368268<br>Telex 27 245<br>sewtwn@ms63.hinet.net<br>http://www.tingshou.com.tw |
| | Nan Tou | Ting Shou Trading Co., Ltd.<br>No. 55 Kung Yeh N. Road<br>Industrial District<br>Nan Tou 540 | Tel. +886 49 255353<br>Fax +886 49 257878<br>sewtwn@ms63.hinet.net<br>http://www.tingshou.com.tw |
| **Tanzania** | | | |
| Sales | Daressalam | SEW-EURODRIVE PTY LIMITED TANZANIA<br>Plot 52, Regent Estate<br>PO Box 106274<br>Dar Es Salaam | Tel. +255 0 22 277 5780<br>Fax +255 0 22 277 5788<br>http://www.sew-eurodrive.co.tz<br>info@sew.co.tz |
| **Thailand** | | | |
| Assembly<br>Sales<br>Service | Chonburi | SEW-EURODRIVE (Thailand) Ltd.<br>700/456, Moo.7, Donhuaroh<br>Muang<br>Chonburi 20000 | Tel. +66 38 454281<br>Fax +66 38 454288<br>sewthailand@sew-eurodrive.com<br>https://www.sew-eurodrive.co.th |
| **Tunisia** | | | |
| Sales | Tunis | T. M.S. Technic Marketing Service<br>Zone Industrielle Mghira 2<br>Lot No. 39<br>2082 Fouchana | Tel. +216 79 40 88 77<br>Fax +216 79 40 88 66<br>http://www.tms.com.tn<br>tms@tms.com.tn |

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| **Turkey** | | | |
| Assembly<br>Sales<br>Service | Kocaeli-Gebze | SEW-EURODRIVE Ana Merkez<br>Gebze Organize Sanayi Böl. 400 Sok No. 401<br>41480 Gebze Kocaeli | Tel. +90 262 9991000 04<br>Fax +90 262 9991009<br>http://www.sew-eurodrive.com.tr<br>sew@sew-eurodrive.com.tr |
| **Ukraine** | | | |
| Assembly<br>Sales<br>Service | Dnipropetrovsk | SEW-EURODRIVE, LLC<br>Robochya str., bld. 23-B, office 409<br>49008 Dnipro | Tel. +380 56 370 3211<br>Fax +380 56 372 2078<br>http://www.sew-eurodrive.ua<br>sew@sew-eurodrive.ua |
| **United Arab Emirates** | | | |
| Drive Technology Center | Dubai | SEW-EURODRIVE FZE<br>PO Box 263835<br>Jebel Ali Free Zone – South,<br>P.O. Box<br>Dubai, United Arab Emirates | Tel. +971 (0)4 8806461<br>Fax +971 (0)4 8806464<br>info@sew-eurodrive.ae |
| **Uruguay** | | | |
| Assembly<br>Sales | Montevideo | SEW-EURODRIVE Uruguay, S. A.<br>Jose Serrato 3569 Esqina Corumbe<br>CP 12000 Montevideo | Tel. +598 2 21181-89<br>Fax +598 2 21181-90<br>sewuy@sew-eurodrive.com.uy |
| **USA** | | | |
| Production<br>Sales<br>Service | Southeast Region | SEW-EURODRIVE INC.<br>1295 Old Spartanburg Highway<br>P.O. Box 518<br>Lyman, S.C. 29365 | Tel. +1 864 439-7537<br>Fax Sales +1 864 439-7830<br>Fax Production +1 864 439-9948<br>Fax Assembly +1 864 439-0566<br>Fax Confidential/HR +1 864 949-5557<br>http://www.seweurodrive.com<br>cslyman@seweurodrive.com |
| Assembly<br>Sales<br>Service | Northeast Region | SEW-EURODRIVE INC.<br>Pureland Ind. Complex<br>2107 High Hill Road, P.O. Box 481<br>Bridgeport, New Jersey 08014 | Tel. +1 856 467-2277<br>Fax +1 856 845-3179<br>csbridgeport@seweurodrive.com |
| | Midwest Region | SEW-EURODRIVE INC.<br>2001 West Main Street<br>Troy, Ohio 45373 | Tel. +1 937 335-0036<br>Fax +1 937 332-0038<br>cstroy@seweurodrive.com |
| | Southwest Region | SEW-EURODRIVE INC.<br>202 W. Danieldale Rd.<br>DeSoto, TX 75115 | Tel. +1 214 330-4824<br>Fax +1 214 330-4724<br>csdallas@seweurodrive.com |
| | Western Region | SEW-EURODRIVE INC.<br>30599 San Antonio St.<br>Hayward, CA 94544 | Tel. +1 510 487-3560<br>Fax +1 510 487-6433<br>cshayward@seweurodrive.com |
| | Wellford | SEW-EURODRIVE INC.<br>148/150 Finch Rd.<br>Wellford, S.C. 29385 | Tel. +1 864 439-7537<br>Fax +1 864 661 1167<br>IGOrders@seweurodrive.com |
| | | SEW-EURODRIVE INC.<br>220 Finch Rd.<br>Wellford, S.C. 29385-9630 | |
| | Additional addresses for service provided on request! | | |
| **Vietnam** | | | |
| Sales | Ho Chi Minh City | SEW-EURODRIVE PTE. LTD. RO at Hochiminh City<br>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<br>huytam.phan@sew-eurodrive.com |
| | Hanoi | MICO LTD<br>Quảng Trị - North Vietnam / All sectors except Construction Materials<br>8th Floor, Ocean Park Building, 01 Dao Duy Anh St, Ha Noi, Viet Nam | Tel. +84 4 39386666<br>Fax +84 4 3938 6888<br>nam_ph@micogroup.com.vn<br>http://www.micogroup.com.vn |
| **Zambia** | | | |
| Representation: South Africa | | | |

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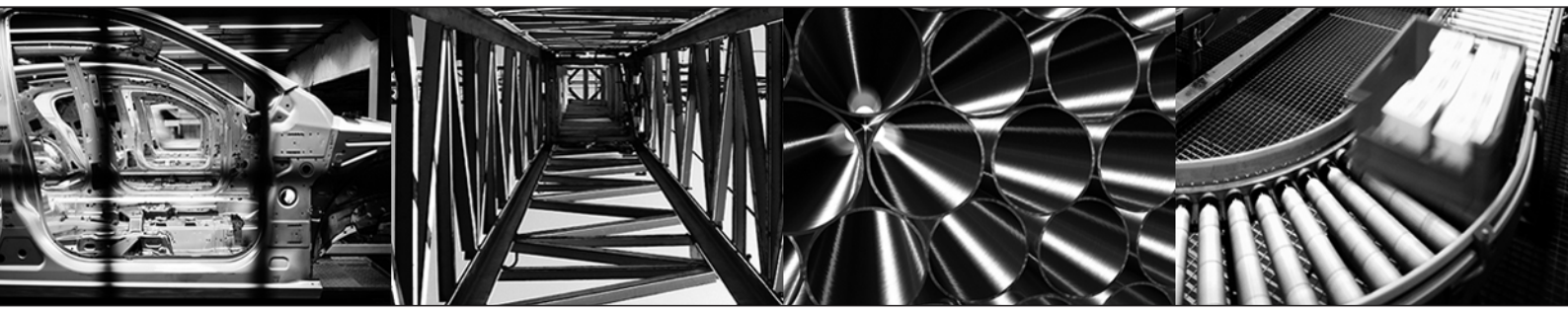

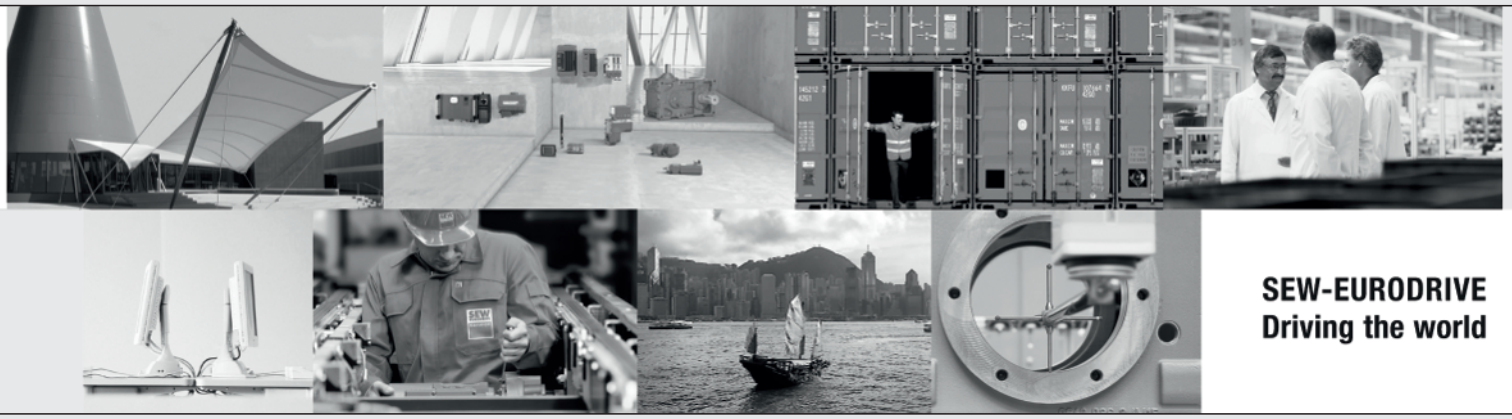

**SEW-EURODRIVE**
**Driving the world**

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**