



Addendum to the operating instructions



MOVIMOT® MM..D – Retrofit Set for AC Motor DR..



1 General information

1.1 Structure of the safety notes

1.1.1 Meaning of signal words

The following table shows the grading and meaning of the signal words for safety notes:

Signal word	Meaning	Consequences if disregarded
▲ DANGER	Imminent hazard	Severe or fatal injuries
▲ WARNING	Possible dangerous situation	Severe or fatal 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.	

1.2 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.

1.3 Other applicable documentation

This additional information does not replace the detailed operating instructions.

Installation and startup may be performed only by electrical specialists observing the relevant accident prevention regulations and the following publication:

- "MOVIMOT® MM..D" operating instructions

1.4 Copyright notice

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1.5 Available retrofit sets

Only (brake-)motors with the following characteristics may be retrofitted:

- Nominal motor voltage: AC 230/400 V, 50 Hz
- Rated brake voltage: AC 230 V for MM03 – MM15
AC 120 V for MM22 – MM40

For drives of UL-compliant installation no retrofit sets are available.

MOVIMOT® retrofit sets do not have part numbers.

1.5.1 Retrofit sets for DRN.. motors

1400 min⁻¹ ▴

Power	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.37 kW	DRN71M4	MM03D, ▴, DRN	DRN71M4/.../MM03D
0.55 kW	DRN80MK4	MM05D, ▴, DRN	DRN80MK4/.../MM05D
0.75 kW	DRN80M4	MM07D, ▴, DRN	DRN80M4/.../MM07D
1.1 kW	DRN90S4	MM11D, ▴, DRN	DRN90S4/.../MM11D
1.5 kW	DRN90L4	MM15D, ▴, DRN	DRN90L4/.../MM15D
2.2 kW	DRN100LS4	MM22D, ▴, DRN	DRN100LS4/.../MM22D
3.0 kW	DRN100L4	MM30D, ▴, DRN	DRN100L4/.../MM30D
4.0 kW	DRN112M4	MM40D, ▴, DRN	DRN112S4/.../MM40D

2900 min⁻¹ ▴

Power	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.37 kW	DRN71MS4	MM03D, ▴, DRN	DRN71MS4/.../MM03D
0.55 kW	DRN71M4	MM05D, ▴, DRN	DRN71M4/.../MM05D
0.75 kW	DRN80MK4	MM07D, ▴, DRN	DRN80MK4/.../MM07D
1.1 kW	DRN80M4	MM11D, ▴, DRN	DRN80M4/.../MM11D
1.5 kW	DRN90S4	MM15D, ▴, DRN	DRN90S4/.../MM15D
2.2 kW	DRN90L4	MM22D, ▴, DRN	DRN90L4/.../MM22D
3.0 kW	DRN100LS4	MM30D, ▴, DRN	DRN100LS4/.../MM30D
4.0 kW	DRN100L4	MM40D, ▴, DRN	DRN100L4/.../MM40D

1.5.2 Retrofit sets for DRE.. motors

1400 min⁻¹ 人

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.75 kW	DRE80M4	MM07D, 人, DRE	DRE80M4/.../MM07D
1.1 kW	DRE90M4	MM11D, 人, DRE	DRE90M4/.../MM11D
1.5 kW	DRE90L4	MM15D, 人, DRE	DRE90L4/.../MM15D
2.2 kW	DRE100M4	MM22D, 人, DRE	DRE100M4/.../MM22D
3.0 kW	DRE100LC4	MM30D, 人, DRE	DRE100LC4/.../MM30D
4.0 kW	DRE132S4	MM40D, 人, DRE	DRE132S4/.../MM40D

2900 min⁻¹ △

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
1.1 kW	DRE80M4	MM11D, △, DRE	DRE80M4/.../MM11D
1.5 kW	DRE90M4	MM15D, △, DRE	DRE90M4/.../MM15D
2.2 kW	DRE90L4	MM22D, △, DRE	DRE90L4/.../MM22D
3.0 kW	DRE100M4	MM30D, △, DRE	DRE100M4/.../MM30D
4.0 kW	DRE100LC4	MM40D, △, DRE	DRE100LC4/.../MM40D

1.5.3 Retrofit sets for DRS.. motors

1400 min⁻¹ 人

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.37 kW	DRS71S4	MM03D, 人, DRS	DRS71S4/.../MM03D
0.55 kW	DRS71M4	MM05D, 人, DRS	DRS71M4/.../MM05D
0.75 kW	DRS80S4	MM07D, 人, DRS	DRS80S4/.../MM07D
1.1 kW	DRS80M4	MM11D, 人, DRS	DRS80M4/.../MM11D
1.5 kW	DRS90M4	MM15D, 人, DRS	DRS90M4/.../MM15D
2.2 kW	DRS90L4	MM22D, 人, DRS	DRS90L4/.../MM22D
3.0 kW	DRS100M4	MM30D, 人, DRS	DRS100M4/.../MM30D
4.0 kW	DRS100LC4	MM40D, 人, DRS	DRS100LC4/.../MM40D

2900 min⁻¹ △

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.55 kW	DRS71S4	MM05D, △, DRS	DRS71S4/.../MM05D
0.75 kW	DRS71M4	MM07D, △, DRS	DRS71M4/.../MM07D
1.1 kW	DRS80S4	MM11D, △, DRS	DRS80S4/.../MM11D
1.5 kW	DRS80M4	MM15D, △, DRS	DRS80M4/.../MM15D
2.2 kW	DRS90M4	MM22D, △, DRS	DRS90M4/.../MM22D
3.0 kW	DRS90L4	MM30D, △, DRS	DRS90L4/.../MM30D
4.0 kW	DRS100M4	MM40D, △, DRS	DRS100M4/.../MM40D

1.5.4 Retrofit sets for DRS.. motors

1400 min⁻¹ 人

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.37 kW	DRS71S4	MM03D, 人, DRS	DRS71S4/.../MM03D
0.55 kW	DRS71M4	MM05D, 人, DRS	DRS71M4/.../MM05D
0.75 kW	DRS80S4	MM07D, 人, DRS	DRS80S4/.../MM07D
1.1 kW	DRS80M4	MM11D, 人, DRS	DRS80M4/.../MM11D
1.5 kW	DRS90M4	MM15D, 人, DRS	DRS90M4/.../MM15D
2.2 kW	DRS90L4	MM22D, 人, DRS	DRS90L4/.../MM22D
3.0 kW	DRS100M4	MM30D, 人, DRS	DRS100M4/.../MM30D
4.0 kW	DRS100LC4	MM40D, 人, DRS	DRS100LC4/.../MM40D

2900 min⁻¹ △

Power rating	Motor	+ MOVIMOT® retrofit set	= MOVIMOT® drive
0.55 kW	DRS71S4	MM05D, △, DRS	DRS71S4/.../MM05D
0.75 kW	DRS71M4	MM07D, △, DRS	DRS71M4/.../MM07D
1.1 kW	DRS80S4	MM11D, △, DRS	DRS80S4/.../MM11D
1.5 kW	DRS80M4	MM15D, △, DRS	DRS80M4/.../MM15D
2.2 kW	DRS90M4	MM22D, △, DRS	DRS90M4/.../MM22D
3.0 kW	DRS90L4	MM30D, △, DRS	DRS90L4/.../MM30D
4.0 kW	DRS100M4	MM40D, △, DRS	DRS100M4/.../MM40D

1.5.5 Braking resistors for motors without brake

For motors without mechanical brake, SEW-EURODRIVE recommends to install a braking resistor BW in the connection box. The braking resistor is not included in the delivery of the retrofit set and must be ordered separately:

MOVIMOT® type	Braking resistor	Part number
MM03D-503-00 – MM15D-503-00 MM03D-233-00 – MM07D-233-00	BW1	08228973 ¹⁾
MM22D-503-00 – MM40D-503-00 MM11D-233-00 – MM22D-233-00	BW2	08231362 ¹⁾

1) 2 screws M4 × 8 included in the delivery.

2 Mechanical Installation

2.1 Assembly



⚠ WARNING

Electric shock from capacitors that have not been fully discharged.

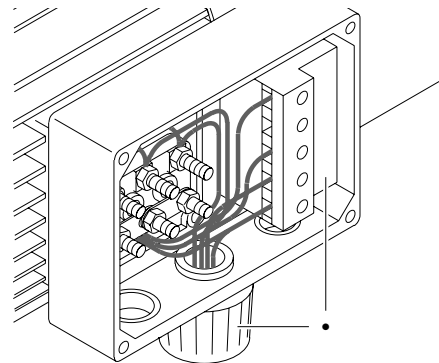
Severe or fatal injuries.

- Disconnect the inverter from the power. Observe the minimum switch-off time after disconnection from the supply system:
 - **1 minute**

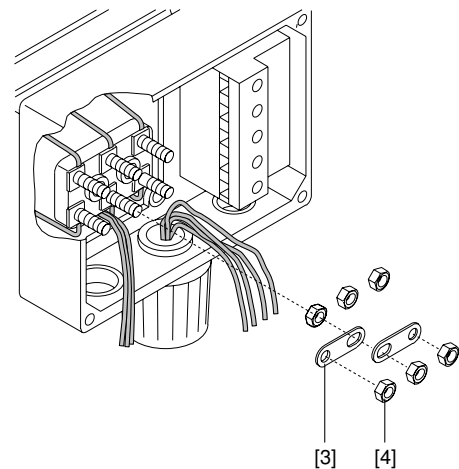
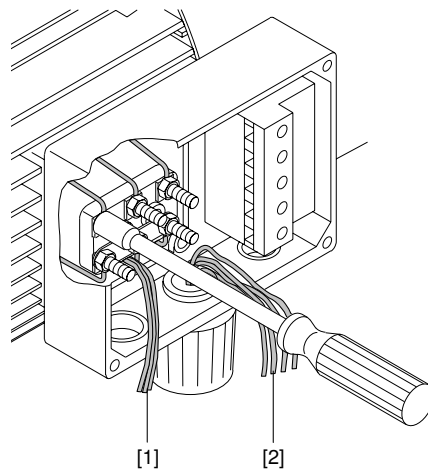
1. Unscrew the terminal box cover and remove the power supply cable.

Result as shown in the figure to the right:

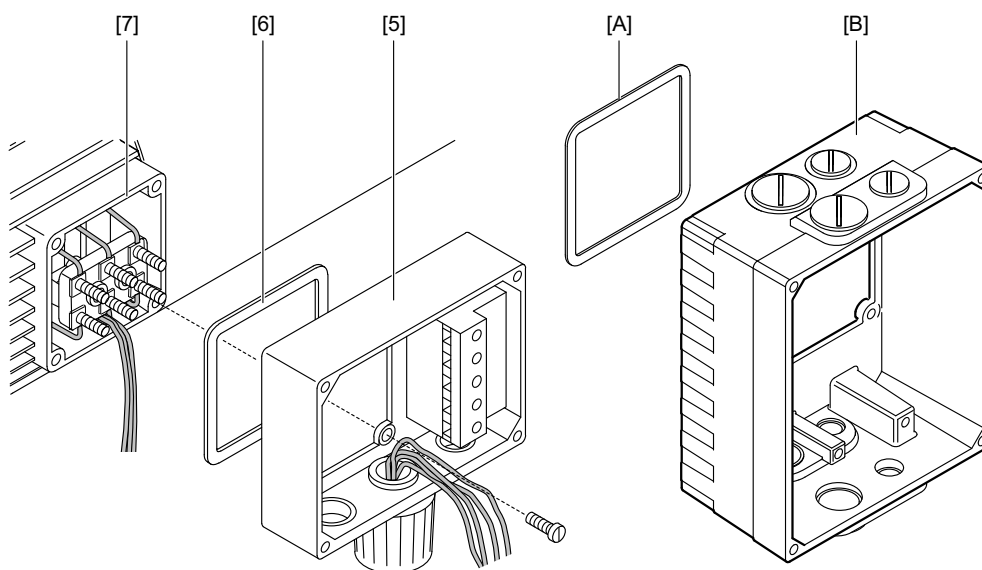
- Brake control, optional (only with brake motors)



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1. If present, disconnect the brake control cables [1] and [2].
2. Remove the nuts [4] and the jumpers [3].

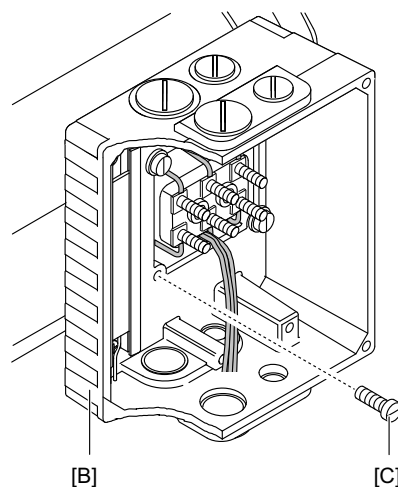


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1. Unscrew the lower part of the terminal box [5].
2. Remove the gasket [6].
3. Clean the sealing surface [7].
4. Place the new gasket [A] onto the connection box [B].
1. Place the connection box [B] onto the motor and secure it using 4 screws [C].

(Tightening torque 3.1 – 5.3 Nm)

Check that the gasket is fitted correctly and the mounting position is correct. The recess for the terminal board on the underside of the connection terminal must point toward the fan guard.

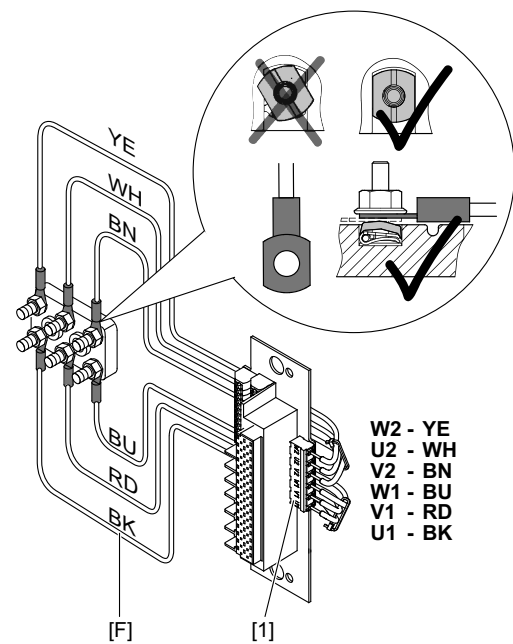


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1. Plug the connection cables [F] onto the bolts of the terminal board as shown in the wiring diagram. Fasten the connection cables with the already installed nuts.

(Tightening torque 1.6 – 2.0 Nm)

2. Connect the connection cable [F] to the terminals [1] on the connection board according to the wiring diagram to the right.

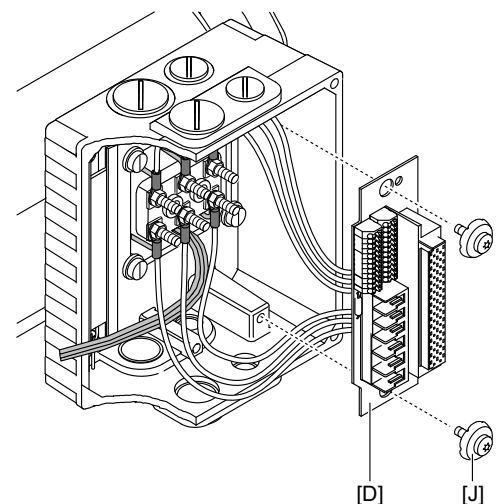


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1. Insert the connection board [D] into the connection box and secure it using 2 screws [J].

(Tightening torque 2.0 – 3.3 Nm)

Be careful not to damage or squeeze the cables.

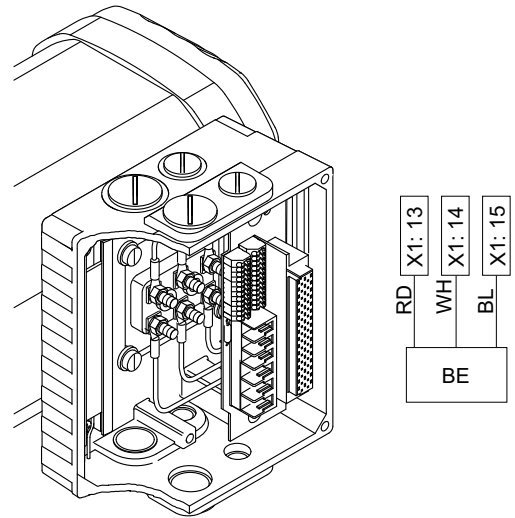


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1. Only for brake motors:

Connect the connection cables of the BE.. brake as follows:

- Red to terminal X1:13
- White to terminal X1:14
- Blue to terminal X1:15



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1. Only for motors without a brake:

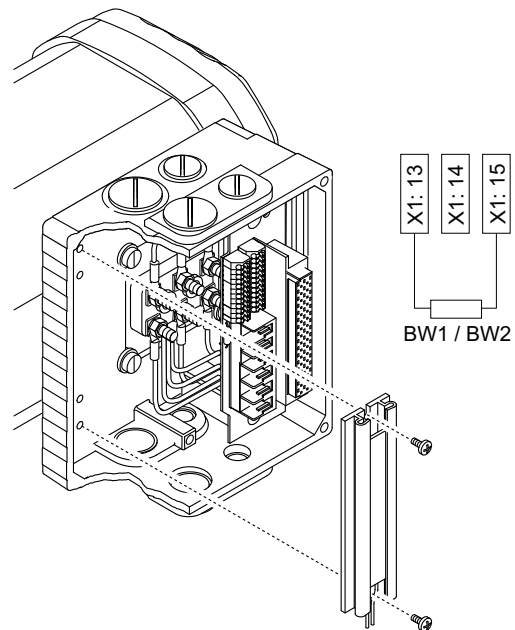
Install the BW braking resistor in the connection box using 2 screws.

(Tightening torque 1.4 – 1.6 Nm)

Connect the BW braking resistor to terminals X1:13 and X1:15.

(Tightening torque of the terminals 0.8 – 1.1 Nm)

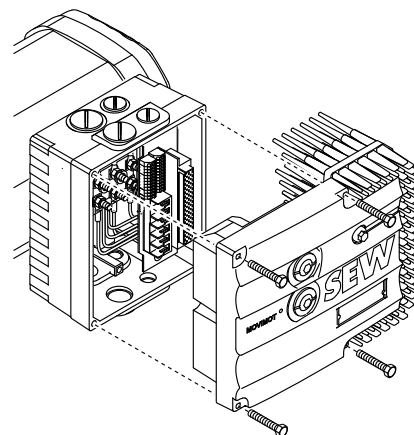
Terminal X1:14 must remain free.



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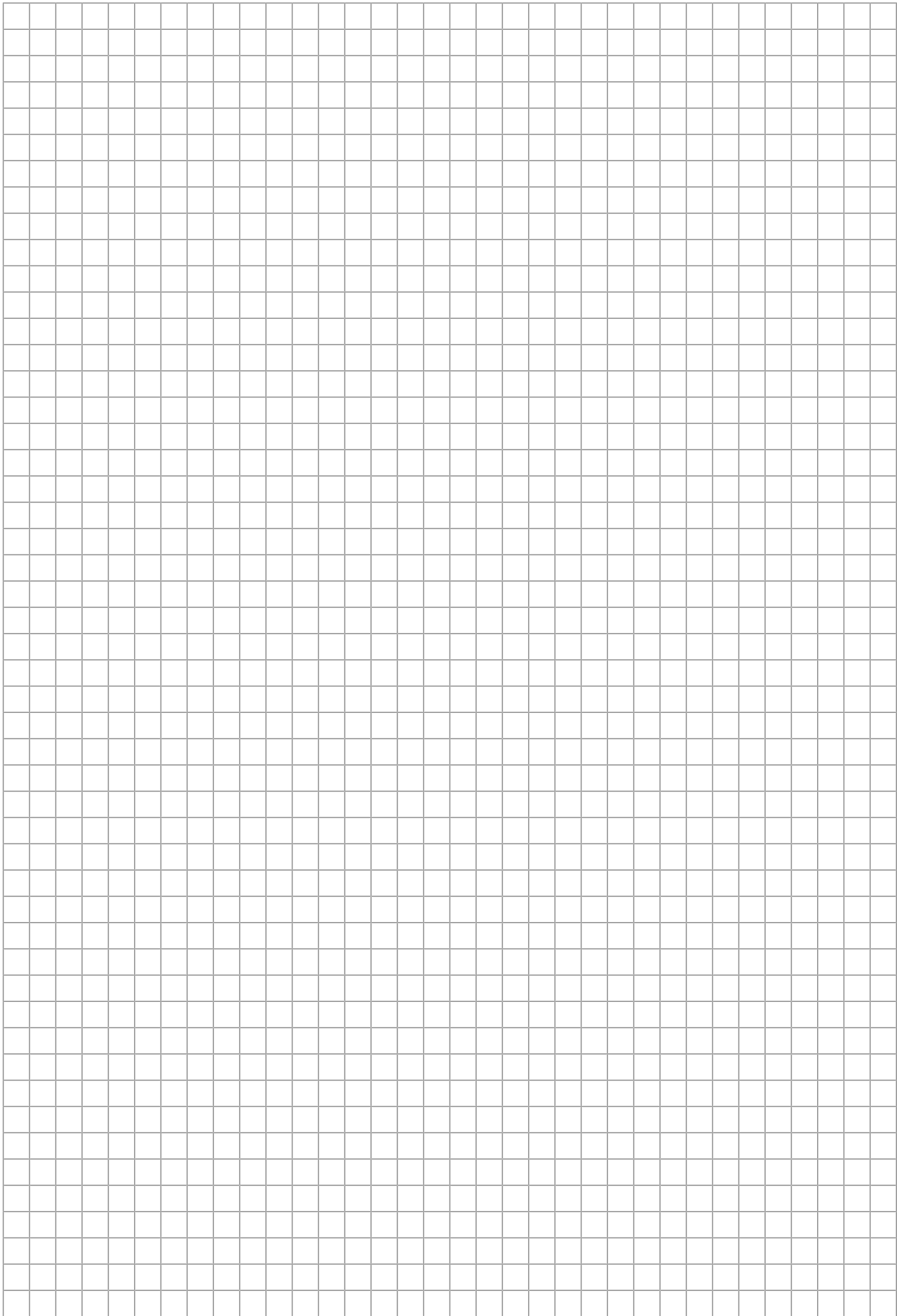
1. Place the MOVIMOT® inverter onto the connection box and secure it using 4 screws.

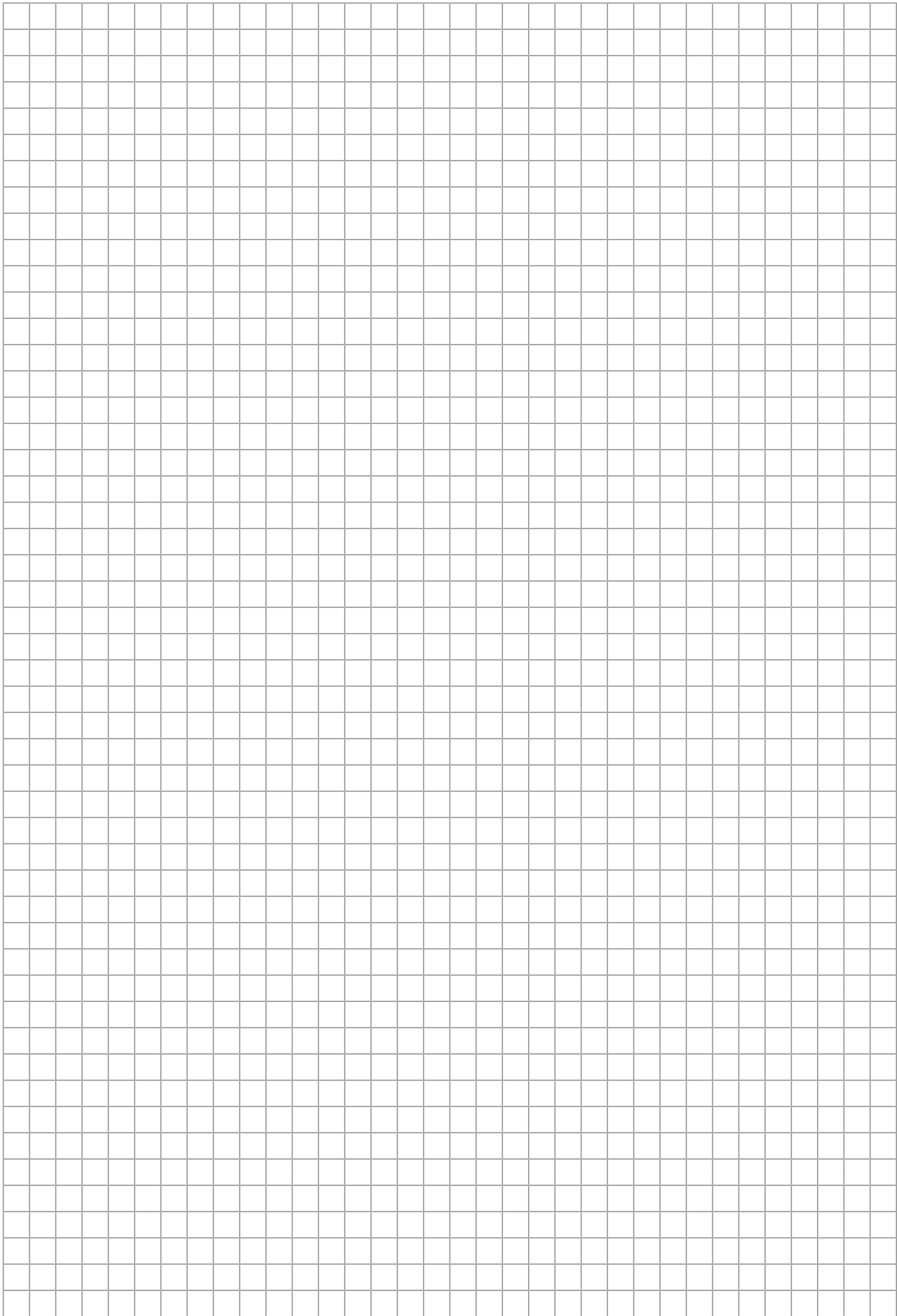
(Tightening torque 3.0 Nm)

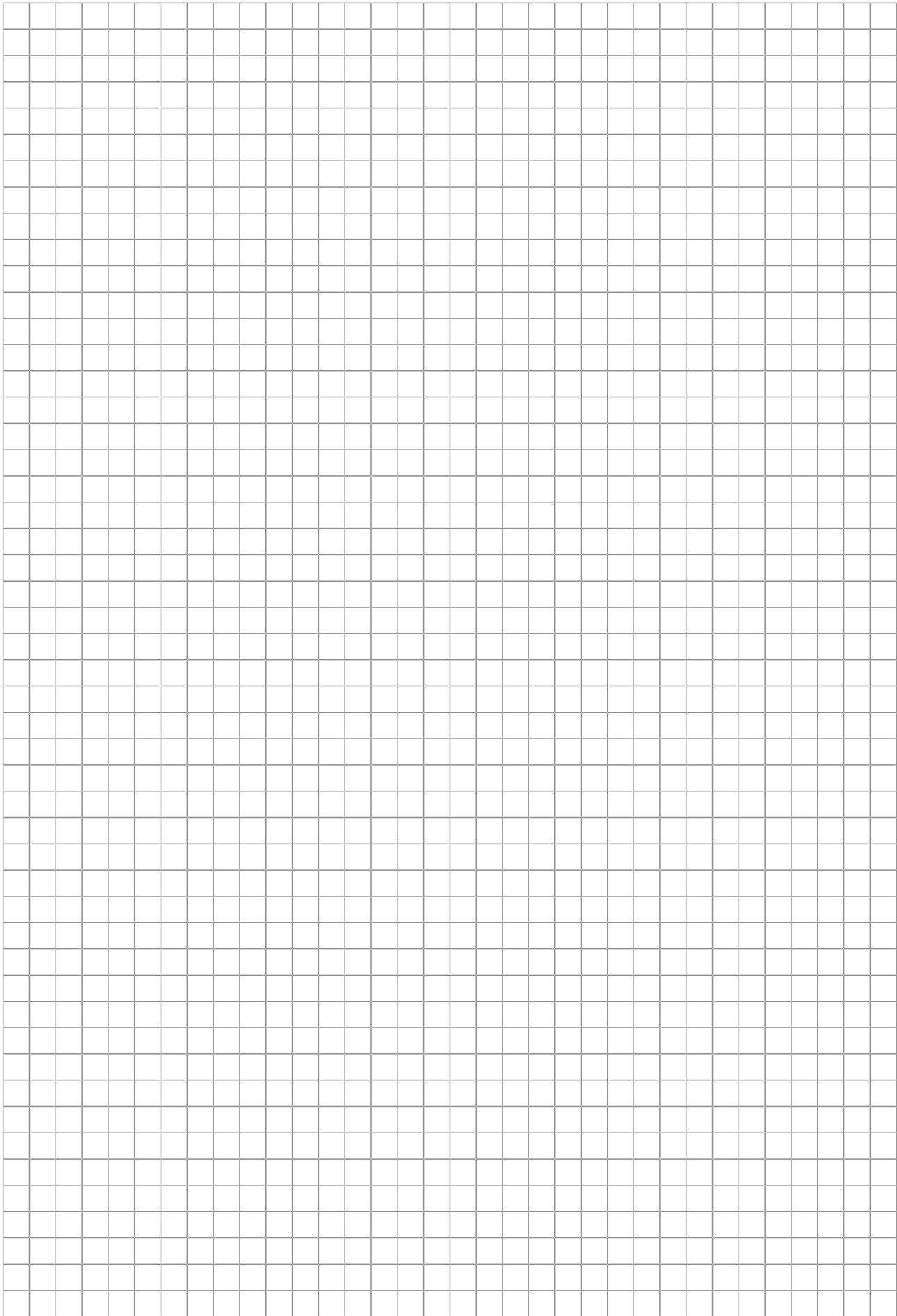


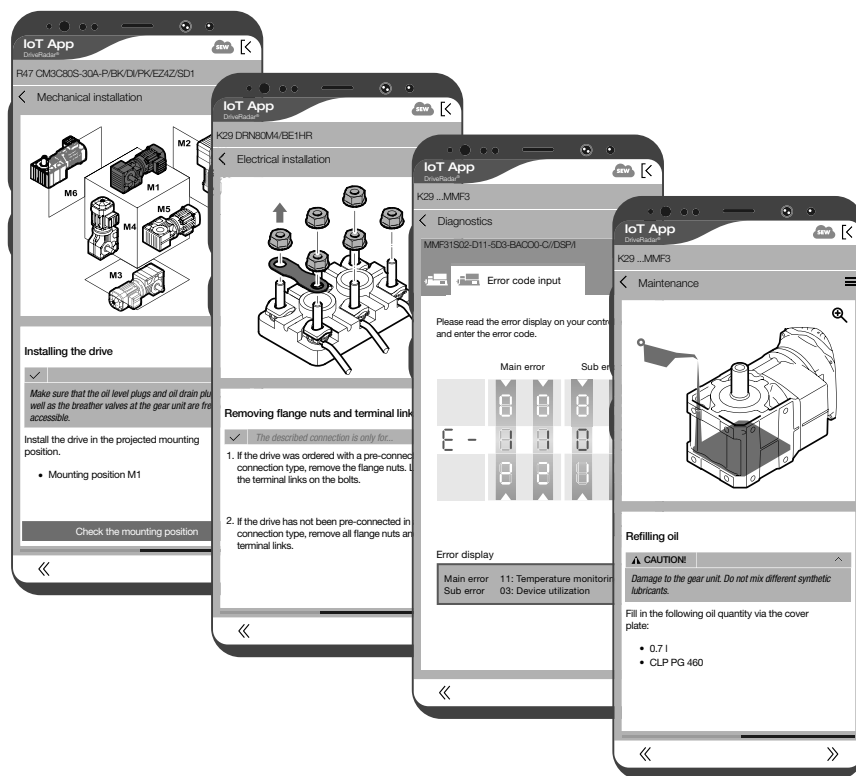
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After successful retrofitting, perform the startup of the MOVIMOT® drive according to the "MOVIMOT® MM..D" operating instructions.









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