Operating and Mounting Instructions – hose reel type STKi2Mo

Operating and mounting instructions hose reel type STKi2Mo
Valid as of November 1, 2011

1. Description

The series STKi2Mo is an electric-motor driven hose reel made from solid sheet steel. All sheet and turning parts of the drum and the switch box are made from stainless steel, material No. 1.4301.

2. Determination and application

2.1 Flow suitabilities: water, oils, air and greases.

2.2 Areas of application: *stationary* – hand craft industry and industry.
mobile – mounted onto vehicles, working on construction sites, in community areas as well as in the service industry

3. Technical data

Type	STKi2Mo...12
Nominal diameter Ø [mm / inch]	12 / ½“
Max. operating pressure [bars]	200 (300)
Max operating temperature. [°C]	100
Max. recoil force [kp.]	15

3.1 **Motor- and transmission data**

Voltage	230V / 50 Hz; 400V / 50 Hz	12V DC, 24V DC
Current	2A	15A
Motor capacity	0,22 KW	0,22 kW
Driving torque of the drum	32 Nm	32 Nm
Rotational speed of the drum	26 min^{-1}	26 min^{-1}
Method of protection	IP55	IP44

4. Mounting of the hose reel

4.1 Mounting possibilities: standing, hanging on the wall or at the ceiling.
A plane and solid ground is required for the mounting of the hose reel.
The following material may be used as a base: wood, steel concrete, brickwork, panel walls (A counter plate is required for panel walls). Fix the hose reel safely with 4 screws, Ø8 or 10. Use portative dowels for concrete and brickwork.

4.2 Electrical connection

4.2. Operation with alternating current single phase 230V
Insert the connector into a 230V-alternating current socket, which is fused by 16A, or let an expert fix it via a cord 3 x $1,5^2$.

4.2.2 In case of alternating current 400V, three-phase
Let an expert connect firmly a cable 5x$1,5^2$-Kabel and secure it with 16A.
Attention: Alternating current exists in case of the connection of a 230V or a 400V motor (danger of life!)
The connection should be carried out by an expert.

4.2.3 Operation with 12V DC or 24V DC
Place the hose reel as closely as possible to the direct current source (battery). The shorter the direct current cord the lesser the loss of current. Cross section of the direct current cord: 6^2, max. 2 m long.

5. **Mounting of the hose**

5.1 Only apply hoses which are suitable for the required pressure and temperature range.

5.2 Fix the appropriate connectors at the joint parts (Illustration 1, items 1 and 6).
Use an appropriate sealant.

5.3 Roll out the hose in full length. Guide one end of the hose without bending protection through the drum opening and connect it to the hose joint.
Guide the hose with one hand while activating the right handed key button with the other hand, illustration 1, item 4.1.
Wind up the hose under control.

5.4 Use the appropriate flexible tubes for the connection to the angled swivel. Illustration 1, item 6.
An inflexible tube work is not admitted.

6. **Operation**

6.1 Unwinding the hose manually

Loosen the drum from the driving by pulling out the sliding coupling, illustration 1, item 3.
Adjust the brake, illustration 1, item 7, in such manner that the hose does not unwind without control. Roll out the hose to the required length and if necessary fix the drum at this position by putting in the clutch.

6.2 Motive unwinding

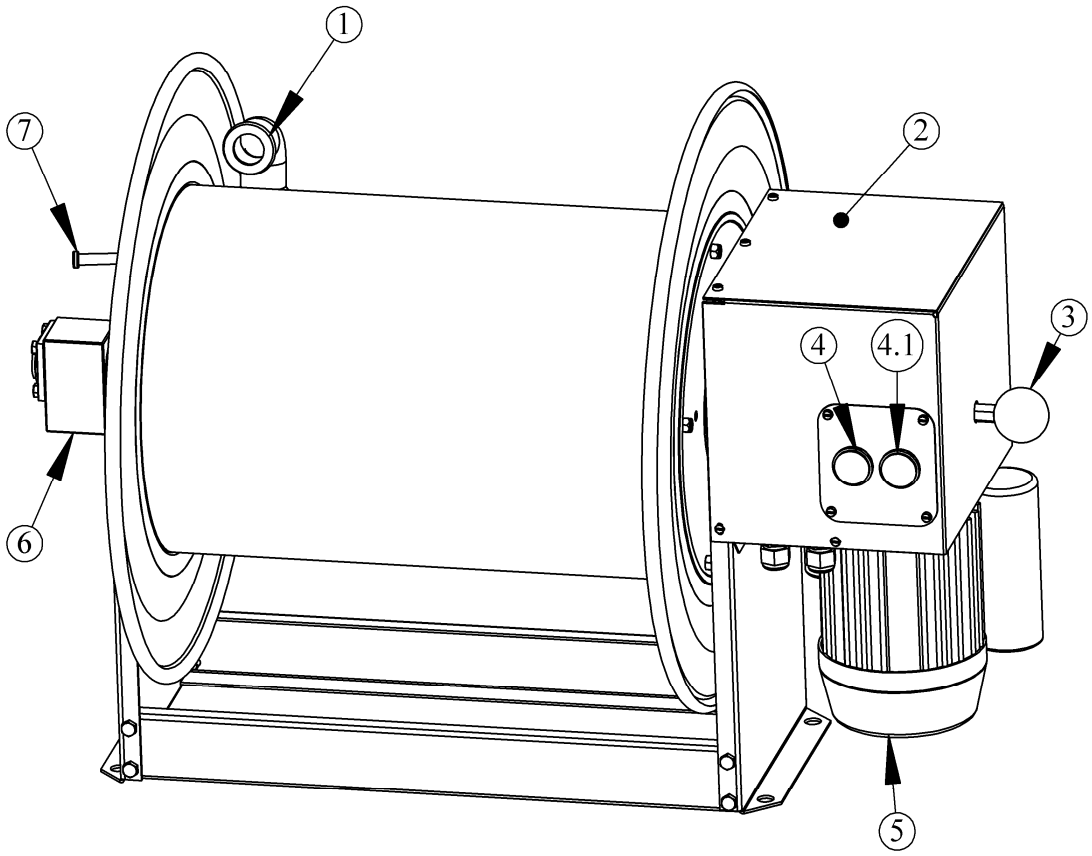
6.2.1 Connect the drum to the driving by pushing the sliding coupling, illustration 1, item 3. The locking into place becomes easier, if the drum is turned manually until the coupling locks into place noticeably.
Keep the left key button pushed, illustration 1, item 4, until the required length of the hose is unwound.
Then bring the end of the hose to its point of application. The drum is still clutched in and thus blocked.

6.2.2 Unwinding the hose by remote control. (on choice).
Put the clutch in as described in 6.2.1. Activate the left key button with one hand. Guide the hose to its point of application with the other hand. The range of the transmitter to the hose reels amounts to approx. 120 m in case of visual contact.

6.3 Winding the hose

Loosen the brake, illustration 1, Pos. 7. Activate the right key button with the right hand, illustration 1, Pos. 4.1, and guide the hose with the left hand in such manner that it will be wound under control.

Illustration 1



Item	Description
1	Hose connection
2	Switch box
3	Sliding coupling
4	Key button - left (4)/ right (4.1) running
5	Geared motor
6	Angled swivel ST-322
7	Braking device

7. **Pistols**

When using pistols, the recoil power has to be kept under 15 kp by limiting the flow rate (by using a perforated plate for example). See also “Guideline for jet stream machines”! Otherwise injuries of the operating personnel and damages of the hose reel might be caused.

8. Maintenance

The hose reels require almost no maintenance at all.
However, every month the hose should be examined for cracks or tears, especially at the hose endings and connecting parts. Any high pressurized outflow jet of liquid can cause injuries.
The electrical joints must be controlled regularly.

9. Warning!

Possible dangers that may occur due to non-expert mounting and handling:

9.1. The hose reels must be fixed safely with 4 screws M8 or M10. Pay attention to a good bearing base. Falling machines may lead to serious and under certain circumstances even fatal accidents.

9.2 Do not reach into the dangerous areas of the drum during the unwinding of the hose. This is also valid for every other person in the area. Thus injuries to the hands are avoided.

9.3 Always unplug the mains plug or cut off the current in another way, before carrying out any repairs.
The hose must be depressurized by turning off the high pressure unit, closing the inlet unit and opening the pistol. The non-observance of these directions may lead to serious injuries.

9.4 The electrical parts may not be exposed to the water jet.

9.5 Children must be kept away from the machine.

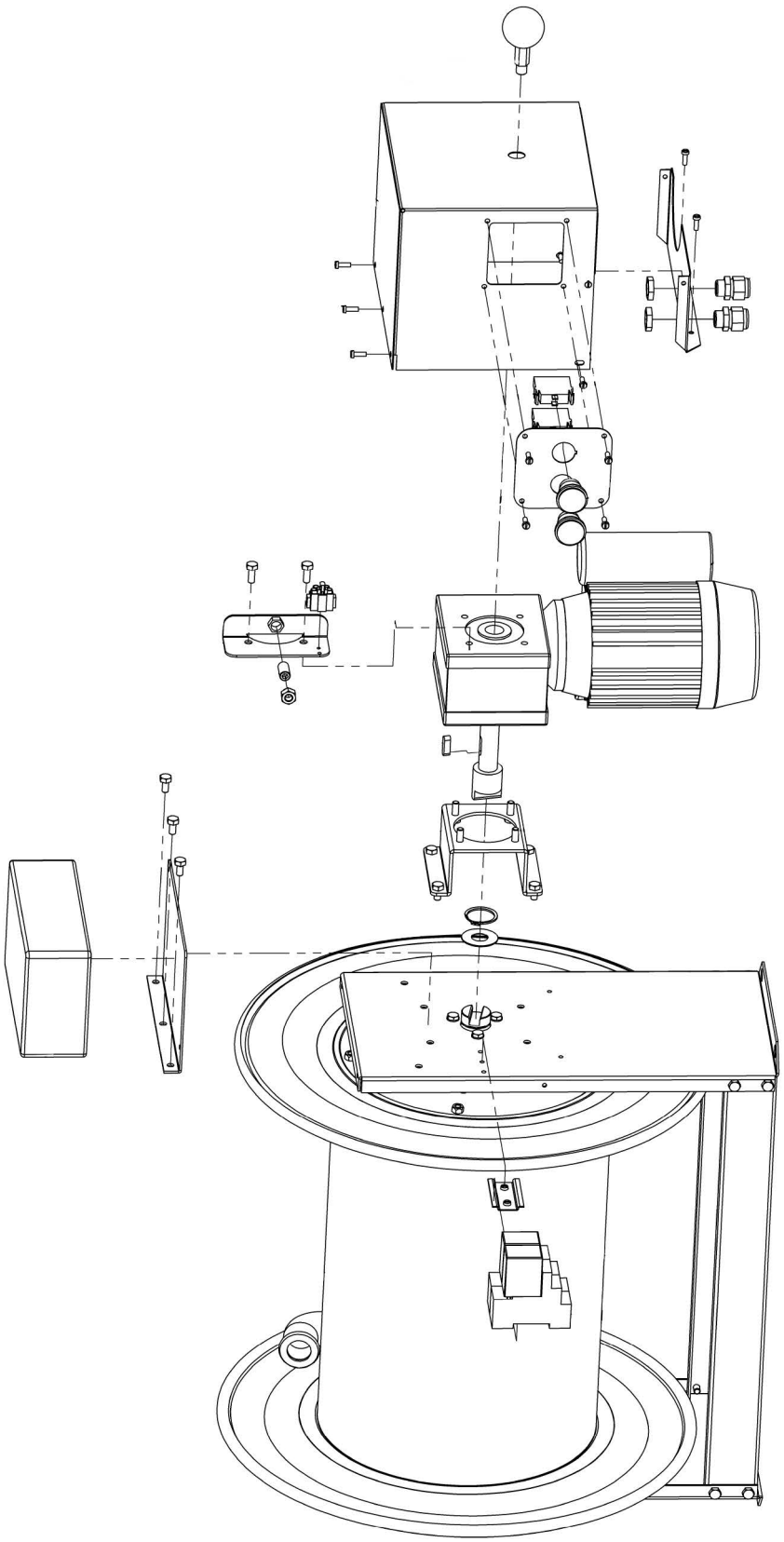
10. Warranty

The legally required warranty for our hose reels and spare parts is 1 year from the date of delivery.

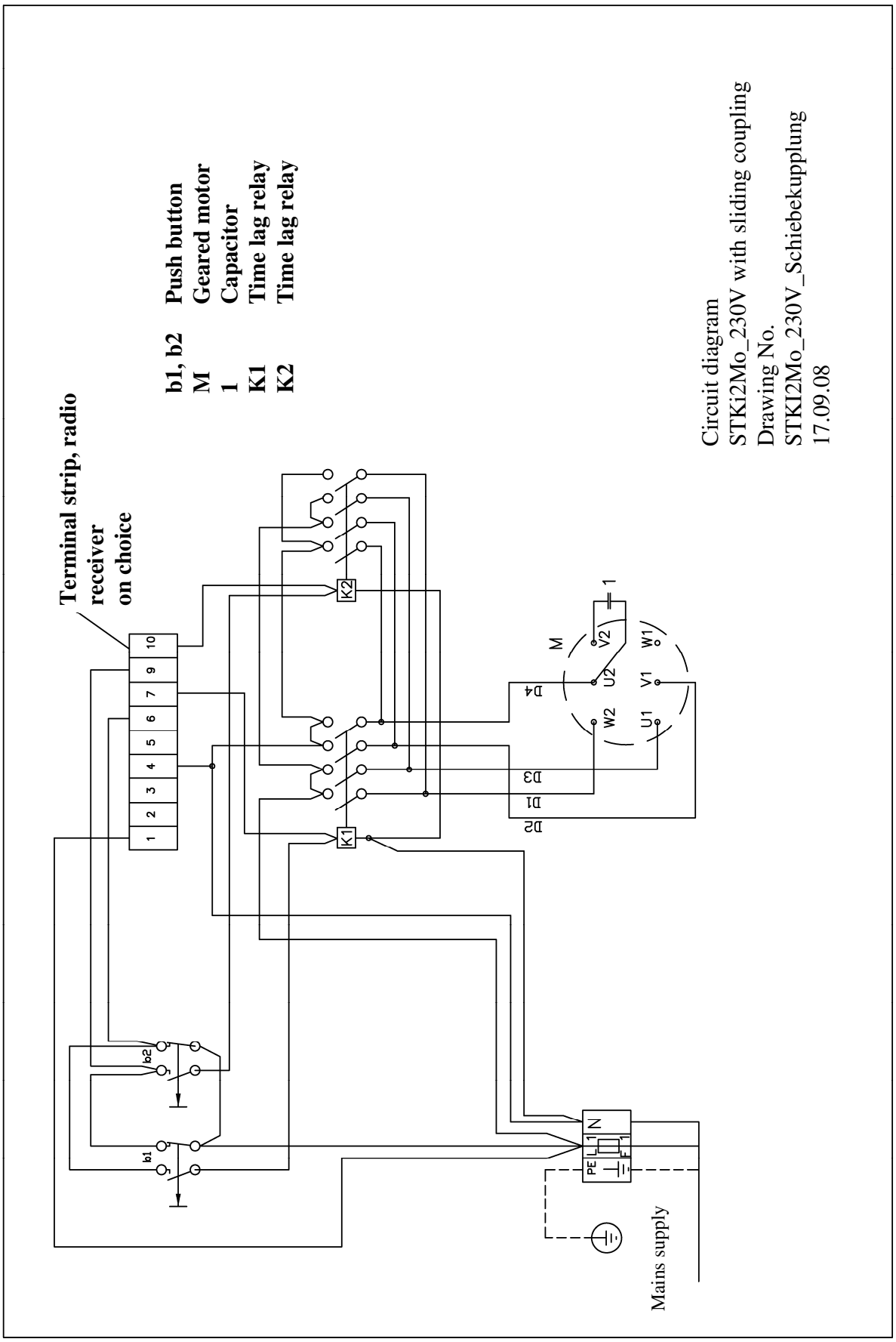
If the product will be resold by the customer from his store after a longer storage period, the one-year-warranty will be extended only, if the final customer returns to us the completely filled in warranty card.

The manufacturer’s liability is not valid, if the user does not follow the directions of the operating and mounting instructions and uses spare parts that are not covered by warranty.
In all other cases our general conditions for sale and supply shall apply.

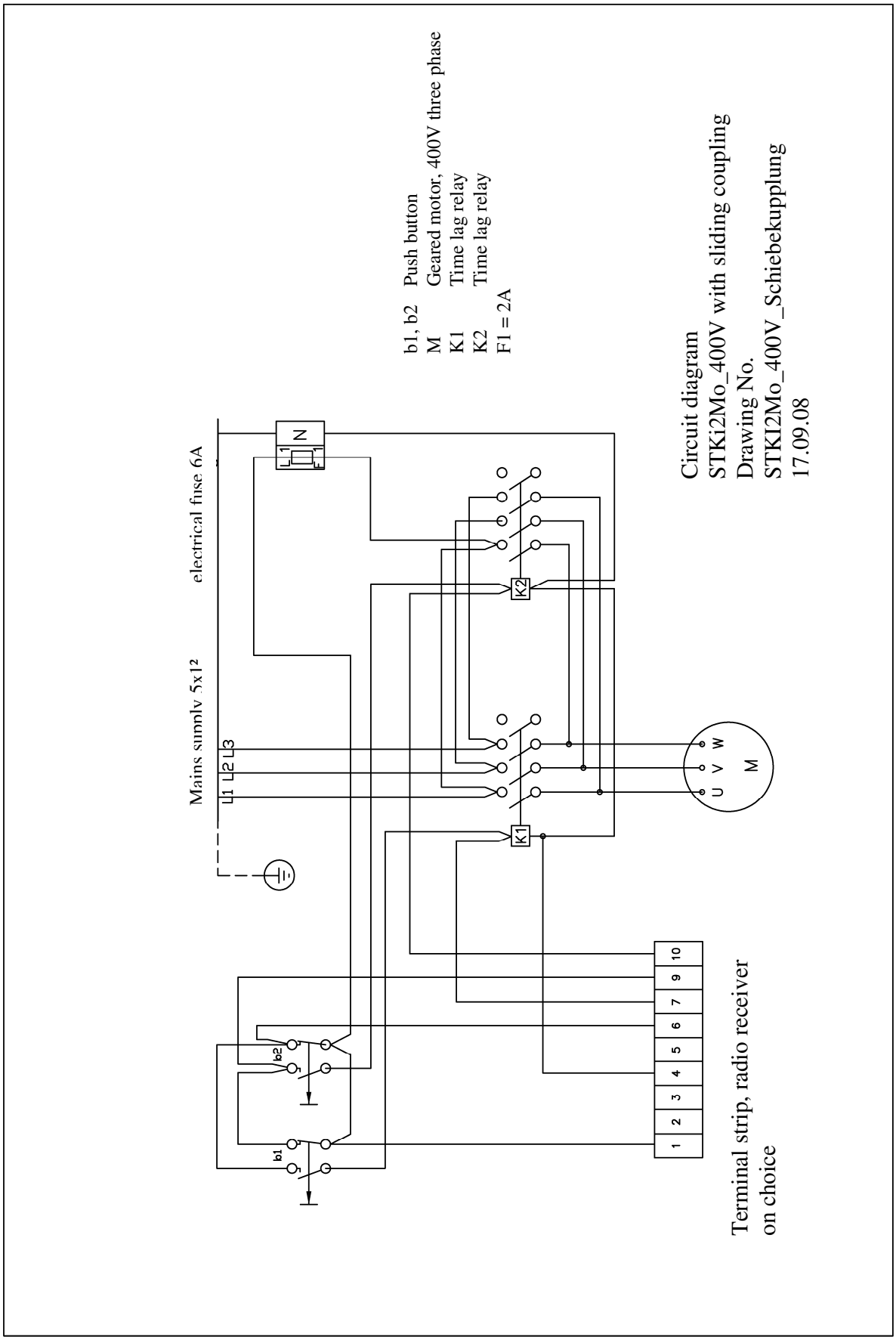
Exploded view, STKi2Mo, Motor Unit



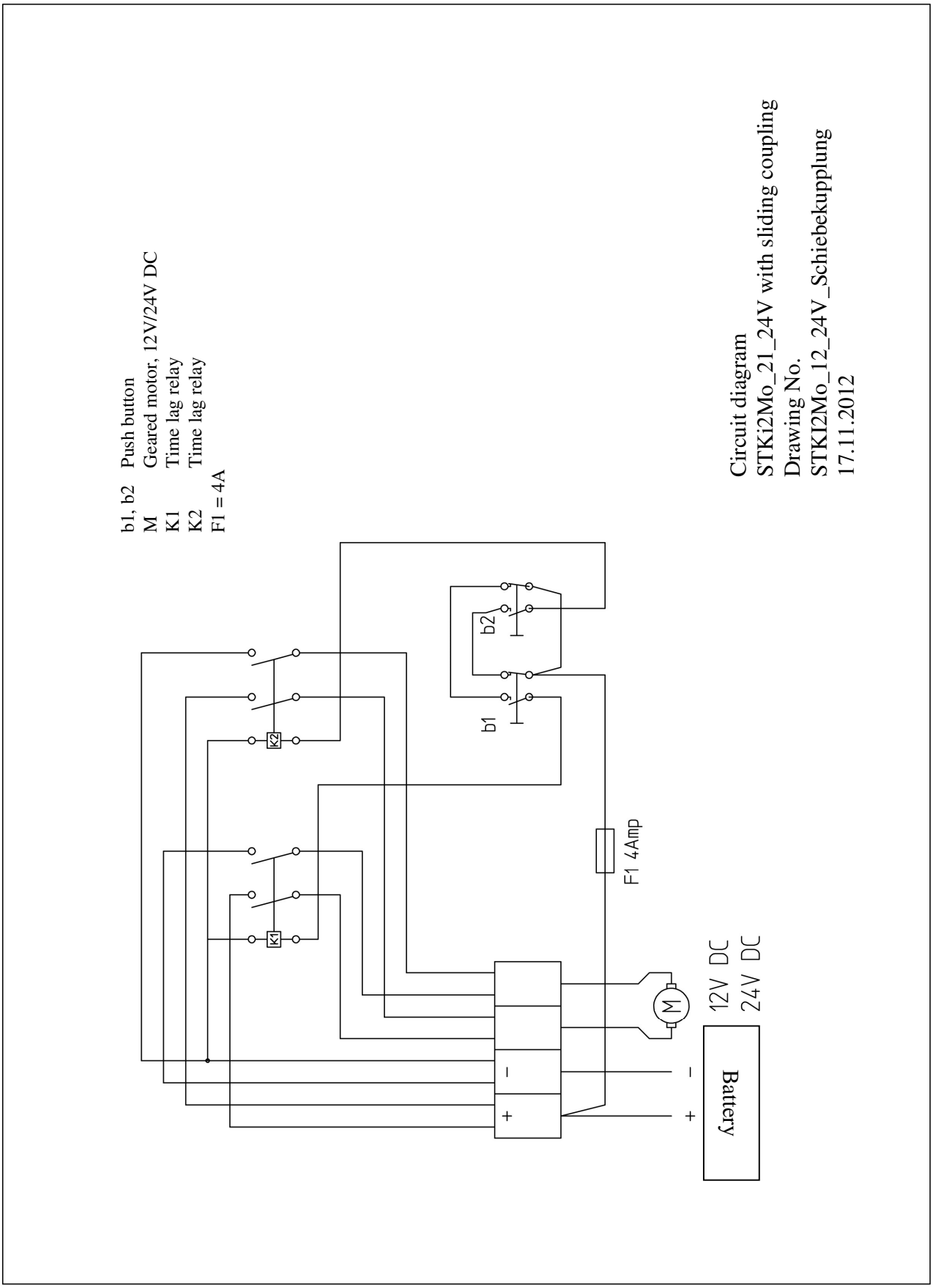
Circuit diagram STKi2 Mo2, 230V, 50 Hz, single phase



Circuit diagram STKi2 Mo2, 400V, 50 Hz, three phase



Circuit diagram STKi2 Mo2, 12/24V, 50 Hz, three phase



CE

Manufacturer's conformity declaration for hose reels

Manufacturer	:	Theodor Henrichs GmbH Am Hellerberg 16 57290 Neunkirchen Germany
Maschine	:	Motor driven hose reel
Type	:	STKi2Mo
Harmonized norms and directives	:	EU-Guideline 2006/42/EG DIN EN-ISO 12100:2011 DIN EN 60204-1 DIN EN 60204-1/A1:2009-10 EMV-Guideline 2004/108/EG

We hereby confirm that the above mentioned hose reels are manufactured and controlled in accordance with the machine guideline 2006/42/EG
In compliance with this guideline an analysis against risks has been executed.
The required technical documentations have been prepared.
The manufacturer is here with authorized to label the machines with „CE mark".

A technical documentation exists completly.
The according operating instructions for the machine are prepared.

Place, Date :
Neunkirchen, 01.12.2014

Signature:

Felix Henrichs (CEO)
Am Hellerberg 16
D-57290 Neunkirchen