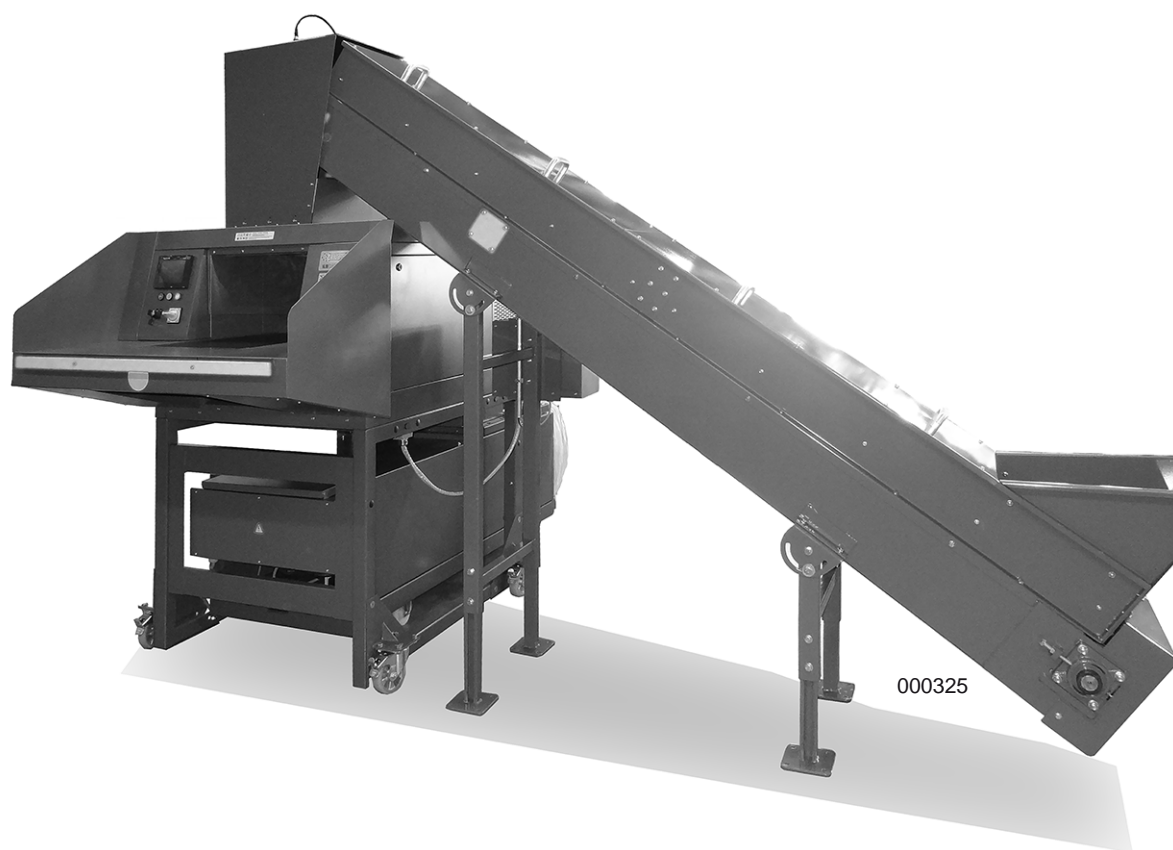


# 16.99 SmartShred

mit Presse/with baler/avec compacteur/con compactador

# 16.99 SmartShred

mit Austragsband/with discharge conveyor/  
avec bande de décharge/con cinta de descarga



**Betriebsanleitung** (D)  
**Operating Instructions** (GB)  
**Instructions d'opération** (F)  
**Instrucciones de uso** (E)

# Contents

<b>1</b>	<b>Safety Information</b> .....	<b>16</b>	5.6	16.99 with discharge conveyor: Emptying the conveyor belt housing .....	23
<b>2</b>	<b>Installation</b> .....	<b>17</b>	5.7	Automatic lubrication system .....	23
2.1	Installation Requirements .....	17	<b>6</b>	<b>Baler operation</b> .....	<b>23</b>
2.2	Installation of the hopper .....	17	6.1	Using the baler .....	23
2.3	Assembly of the combination .....	18	6.2	Feeding the baler via the shredder .....	23
2.4	Installing the strap rolls .....	18	6.3	Feeding the baler manually .....	24
<b>3</b>	<b>Initial start up</b> .....	<b>18</b>	6.4	Completing the bale .....	24
3.1	Application .....	18	6.5	Ejecting the bale .....	24
3.2	Power supply connection .....	18	6.6	Installing a new plastic sack .....	25
3.3	Checking the running direction .....	18	6.7	Inserting straps for a new bale .....	25
3.4	Initial commissioning .....	19	6.8	Replacing the strap rolls .....	26
<b>4</b>	<b>Controls</b> .....	<b>19</b>	<b>7</b>	<b>Malfunction</b> .....	<b>27</b>
4.1	Switches and Keys .....	19	7.1	Motor faults .....	27
4.2	Display .....	19	7.2	Fault checklist .....	27
4.3	Operating elements baler .....	21	<b>8</b>	<b>Maintenance / Disposing</b> .....	<b>27</b>
4.4	Emergency stop bar .....	21	8.1	Gear box maintainance .....	27
<b>5</b>	<b>Shredder Operation</b> .....	<b>22</b>	8.2	Energy saving tip .....	27
5.1	Operating the machine .....	22	8.3	Checking the oil level .....	27
5.2	Loading the shredder .....	22	8.4	Disposing of the machine .....	28
5.3	Automatic response in case of „overloading“ .....	22	<b>9</b>	<b>Accessories</b> .....	<b>28</b>
5.4	16.99 with baler: Jam outlet .....	22	<b>10</b>	<b>Technical data</b> .....	<b>28</b>
5.5	16.99 with discharge conveyor: Automatic stop in case of full conveyor belt housing .....	23	<b>11</b>	<b>Schaltbild / Wiring Diagram/ Plan de montage / Diagrama eléctrico</b> .....	<b>57</b>
			<b>12</b>	<b>Certificate of Conformity</b> .....	<b>75</b>

## 1 Safety Information



### DANGER!

#### Risk of injury!

- ☞ The machine may only be used for its intended purpose!
- ☞ The machine's mains connection must be freely accessible!
- ☞ The machine should only be operated in closed rooms within a temperature range of 10 to 40° C!



#### The device may not be used by several people at the same time!

The safety elements' design is based on safe one-person operation..



#### Do not perform any other work (e.g. cleaning, etc.) on the machine while it is shredding!!



#### This machine is not a toy; it is unsuitable for operation or use by children!

This machine's overall safety concept (dimensions, feeds, safety shutdown, etc.) implies no guarantee for safe handling by children.



#### Risk of injury! Keep loose clothing, neckties, jewelry, long hair or other loose objects away from the inlet!



#### Risk of injury! Do not grab the inlet with your fingers!



#### In case of danger, disconnect the machine with the main switch or emergency stop button, or disconnect the power plug!



#### Disconnect the power plug before opening the machine!

Only a professional may perform repairs!

## 2 Installation

### 2.1 Installation Requirements

Be certain that three phase current is available at the point of installation (see „Technical data“, p. 28 for information concerning required pre-fusing of the electrical outlet).

**Note:** Since this machine can weigh up to 1256 kg, it is essential to check the permissible load per square meter of the floor.

### 2.2 Installation of the hopper

1. Release the transport lock (binder) on the outlet flap (fig. 1/1) and fold the flap down.

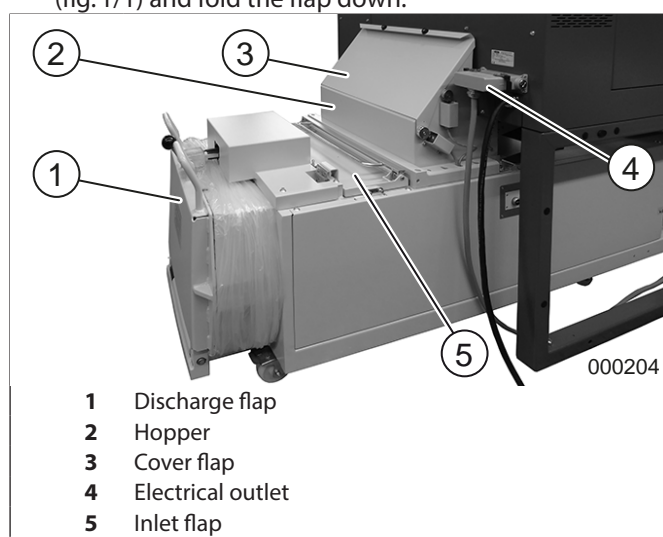


fig. 1 Flaps and hopper

2. Take the hopper (fig. 1/2) out of the press compartment, as shown, place over the filler opening and fix to the press from inside with the aid of the 7 hexagon socket screws M6x12.
3. Swivel the brush strip (fig. 2/6) on the hopper up until the brush is pointing in the direction of the press compartment. Fix the brush strip to the hopper in this position with the two M6x16 hexagon socket screws and washers provided (use upper hole for fixing).
4. Remove both switch covers (fig. 2/1+2). Fix the limit switch S8 with 2 screws M4x40 and nuts M4 below the switch cam of the switch flap (fig. 2/8). Undo the threaded pin (fig. 2/9) (Allen key 2.5 mm), turn the cam into position and tighten the threaded pin again.

#### NOTE!

the switch cam must be turned in such a way that with the switch flap hanging straight down, the switch pin of the switch is situated in the recess of the switch cam.

5. Fix the limit switch S9 with 2 screws M4x40 and nuts M4 under the switch cam of the cover flap (fig. 2/4). Undo the threaded pin (fig. 2/9) (Allen key 2.5mm), turn the cam into position and tighten the threaded pin again.

#### NOTE!

The switch cam must be turned so that when the cover flap is closed, the switch pin of the switch is situated in the recess of the switch cam.

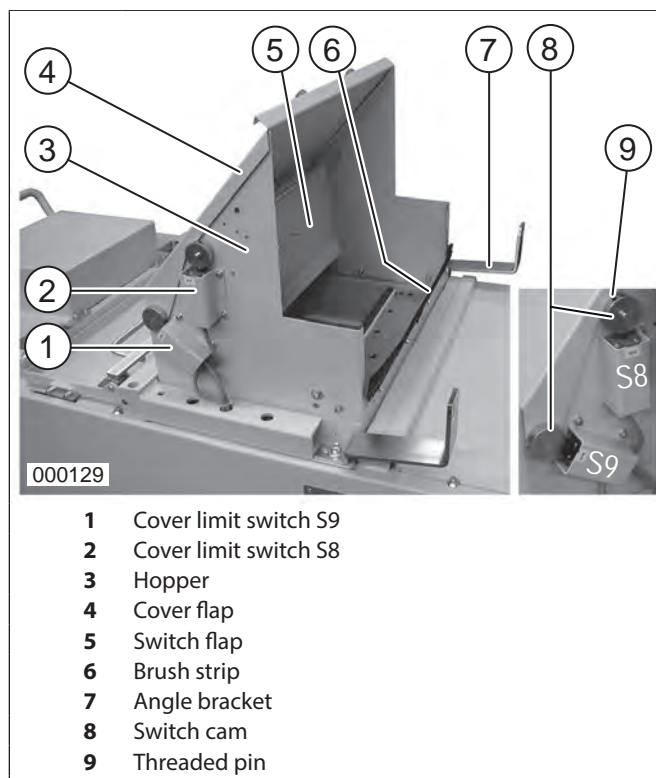


fig. 2 Hopper

6. Position the two switch covers (fig. 2/1+2) over the limit switches and fix each to the hopper with two screws M5x16 and nuts M5.
7. Open cover flap (fig. 2/4). Check/correct position of security angle (fig. 3):  
 SC (Stripe cut) machines: position up  
 CC (Cross cut) machines: position below

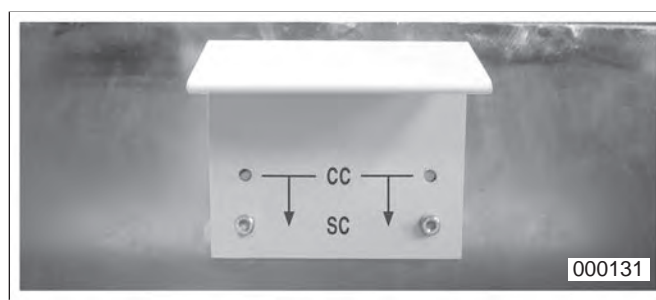
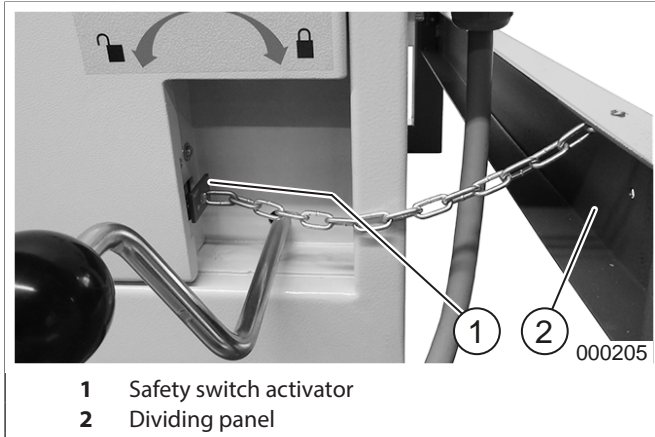


fig. 3 Security angle jam crowding

## 2.3 Assembly of the combination

1. Push the baler under the shredder. Screw the shredder and the baler together with the aid of the two fixing brackets (fig. 2/7) provided with the shredder (fig. 1).
2. Secure the end of the chain of the baler safety switch activator (fig. 4/1) to the cross beam (fig. 4/2) of the shredder base, using the appropriate bores.



- 1 Safety switch activator
- 2 Dividing panel

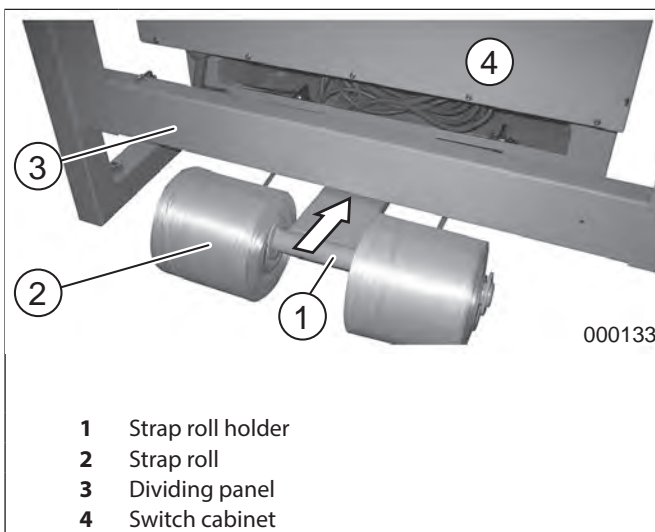
fig. 4 Safety switch activator

3. Insert the actuator (special key) of the safety switch activator (fig. 4/1) in the limit switch at the baler.
4. Insert and secure the connecting plug of the baler in the electrical outlet (fig. 1/4) at the housing rear panel.

## 2.4 Installing the strap rolls

Remove the strap rolls (fig. 5/2), the strap roll holder (fig. 5/1) and accessories (strap lifter, pull cable and screws) from the baling chamber and insert the strap roll holder into the corresponding opening in the baler as shown. Place the left and right-hand strap rolls onto the strap roll holder with the strap ends pointing down.

The remainder of the procedure is described at „Baler operation“, p. 23, under the heading “Replacing the strap rolls” and “Inserting the straps for a new bale”.



- 1 Strap roll holder
- 2 Strap roll
- 3 Dividing panel
- 4 Switch cabinet

fig. 5 Strap rolls

## 3 Initial start up

### 3.1 Application



#### CAUTION!

**Risk of injury! Damage to the cutting mechanism!**

The shredder should only be fed with paper or cardboard!

Shredding other data carriers can cause injury (e.g. by splintering of hard materials) or may damage the shredder (e.g. destruction of the cutting system).

The **16.99** shredder/baler combination is a large-scale shredding system for the shredding and baling of large volumes of paper.

The system shreds cardboard and crumpled paper just as easily as it does flat paper.

### 3.2 Power supply connection

- The maximum value for loop impedance at the mains connection point is 0.5 Ohms.
- The conductor cross-section of the power supply line should be of a magnitude so as to cause a 15% voltage drop in the case of a machine blockage (inhibit current = 6 x nominal current).

### 3.3 Checking the running direction



- 1 Emergency-stop bar

fig. 6 Emergency-stop bar

1. Free the emergency-stop bar (pull out the bar) (fig. 6) on the shredder feed table. Switch on the main switch (fig. 7/2) i.e. to position „1“.
2. Turn the key selector switch (fig. 7/1) to the right.
  - The display appears.
3. Press the green start button (fig. 7/3).
4. Check that the shredder is running in the correct direction and correct the phase relation at the control box if necessary.

Now that everything has been correctly assembled and connected, you can proceed to operating the machine.



## DANGER!

### Risk of death by electrocution!

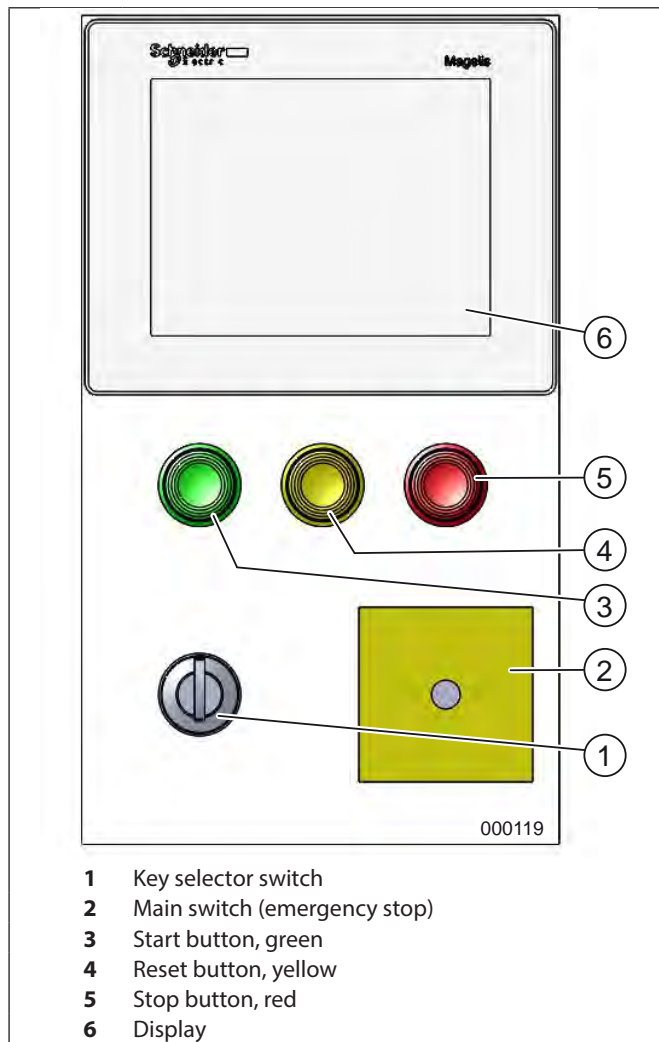
Correcting the phase relation at the control box may only be carried out by a qualified electrician!

## 3.4 Initial commissioning

Switch on, set the language and time. See „Display“, p. 19.

# 4 Controls

## 4.1 Switches and Keys



- 1 Key selector switch
- 2 Main switch (emergency stop)
- 3 Start button, green
- 4 Reset button, yellow
- 5 Stop button, red
- 6 Display

fig.7 Controls

### ① = Key selector switch

#### a) Left: manual operation

The „Manual operation“ screen appears. Manual control of the machine via the display.

#### b) Middle: lock

The machine can be locked and thus secured against unauthorised use. When the main switch is on, the start screen appears.

#### c) Right: automatic mode

The „Automatic mode“ screen appears.

### ② = Main switch (emergency stop)

This switch is used to switch the machine on and off (position “1” or “0”).

### ③ = Start button, green

Only in automatic mode:

When this button is pressed, the shredder’s cutting mechanism and conveyor belt start running and the machine can be loaded.

### ④ = Reset button, yellow

Only in automatic mode:

Press the button as instructed on the display.

### ⑤ = Stop button, red

Only in automatic mode:

When this button is pressed, the shredder is switched off and the cutting mechanism and conveyor belt are stopped.

### ⑥ = Display

All other information is entered and output via the display (settings, control, status messages, error messages).



### NOTE!

To avoid display damages from scratches and cracks put tools and the like out of your hand before operating.

## 4.2 Display

Four main screens (fig. 7/6) are used to control the machine.



### NOTE!

The display contains various buttons, fields and illuminated displays:

Circular: illuminated information display

Rectangular: text output field

Rectangular with 3D effect: input button



### Start screen (fig. 8)

The start screen appears when:

- the main switch is switched on and
- the key selector switch (fig. 7/1) is in the middle position.

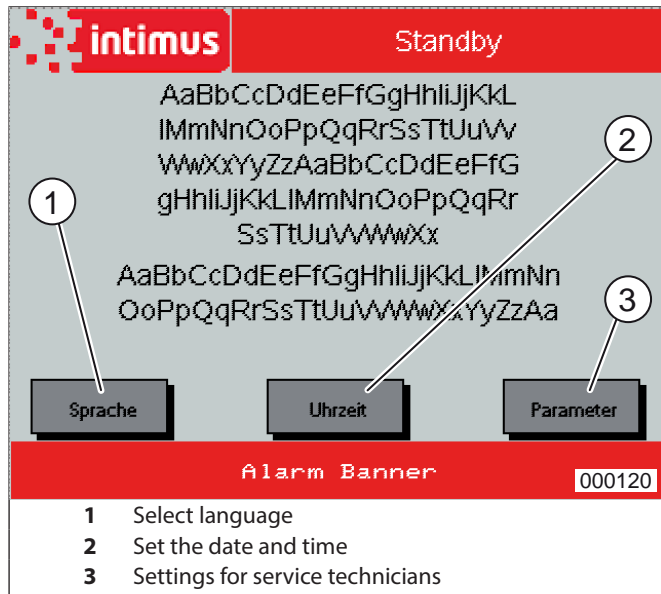


fig. 8 Start screen

### “Date – Time” screen (fig. 9)

The date and time are set from the start screen.

By default, the displayed date and time values are taken from the control unit.

These values can also be set manually.

If necessary, the displayed values can also be synchronised with those of the control unit.

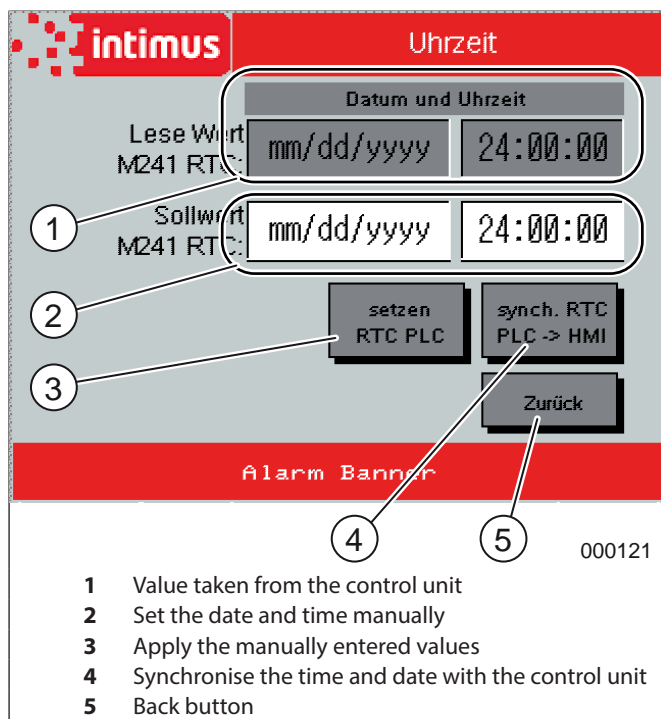


fig. 9 “Date – Time” screen

### “Automatic mode” main screen (fig. 10)

The “Automatic mode” screen appears when:

- the main switch is switched on and
- the key selector switch is turned to the right.

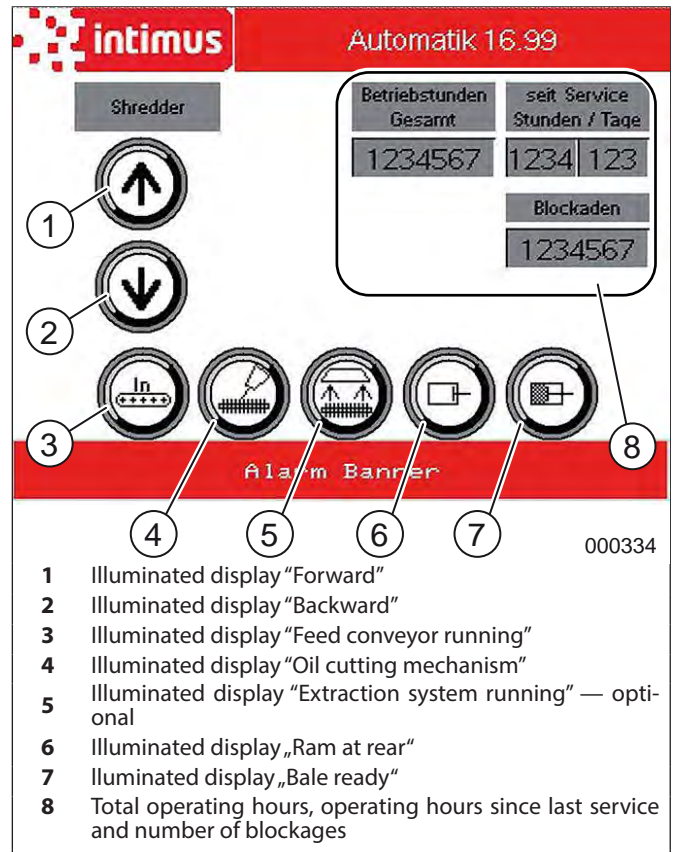


fig. 10 “Automatic mode” screen

### “Manual operation” main screen (fig. 11)

The „Manual operation“ screen appears when:

- the main switch is switched on and
- the key selector switch is turned to the left.

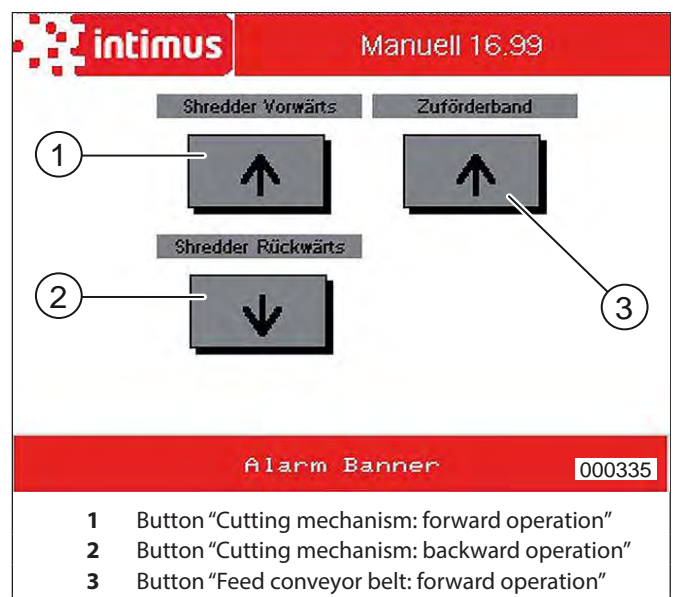


fig. 11 „Manual operation” screen

The machine and conveyor belt will continue running for as long as the button is pressed.

## Screen "Parameter settings" for feed conveyor (fig. 12)

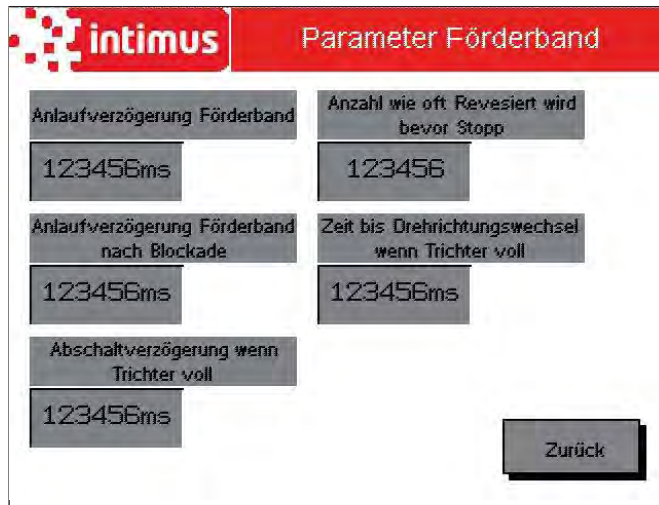


fig. 12 Screen "Parameter settings" for feed conveyor

Make the desired settings.

## 4.3 Operating elements baler

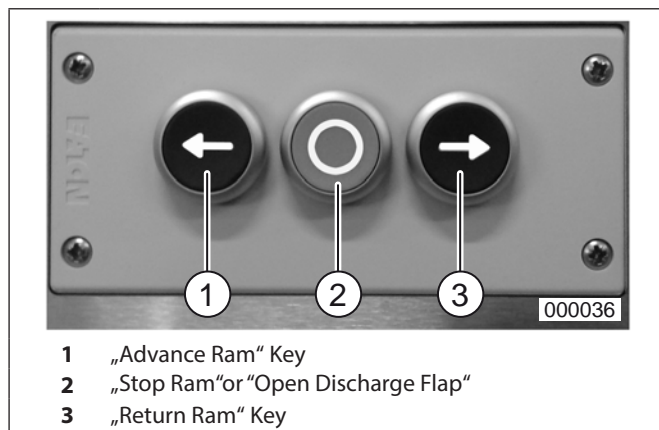


fig. 13 Operating elements baler

### 1 = „Advance Ram“ Key (compacting cycle)

If this key is pressed, the baling ram (fig. 14/1) is advanced (compacting cycle) and is then automatically returned to its rear, home position.

#### ! NOTE!

If the ram does not return to its home position, but rather continues to press against the bale, the bale must be tied off and then ejected (see „Completing the bale“, p. 24).

### 2 = Key

#### a) Stop Ram

If this key is activated briefly (less than 2 seconds), the baling ram (fig. 14/1) is stopped.

#### b) Open Discharge Flap

If the key is pressed and held (for at least 2 seconds), the baling ram travels a short distance in reverse and the locking lever (fig. 20/2) is advanced a short distance (pressure relief at the discharge flap).

The discharge flap (fig. 20/1) can now be opened. This is necessary when the baler is holding the bale in the compacted condition.

#### ! NOTE!

The discharge flap can only be opened after this key (fig. 13/2) has been activated.

### 3 = „Return Ram“ Key (return stroke) (fig. 8)

When this key is activated in the automatic operating mode, the baling ram (fig. 14/1) is returned to its rear, home position.

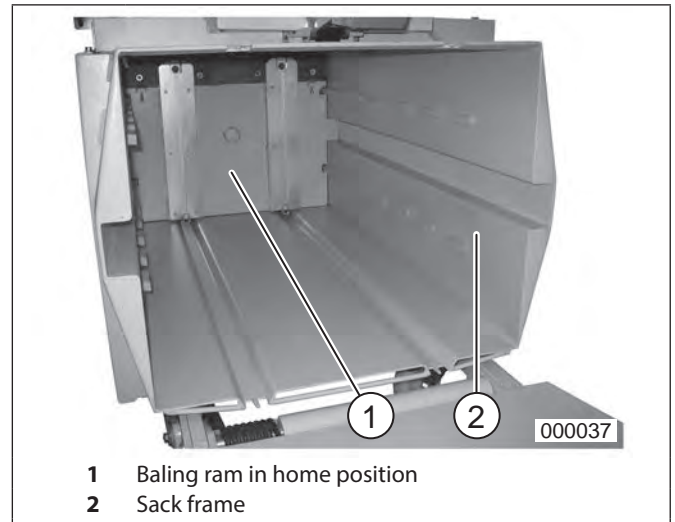


fig. 14 Baler

## 4.4 Emergency stop bar (fig. 6/1)

Should it be necessary, for any reason, to switch off or stop the machine as quickly as possible, this can be achieved by pressing the emergency stop bar. To switch on again, release the bar (pull it out) and operate the green „Start button“ (fig. 7/3).

## 5 Shredder Operation

### 5.1 Operating the machine

To switch on, proceed as follows:

1. Set the main switch (fig. 7/2) to position "1".
2. Insert the enclosed key into the key selector switch (fig. 7/1) and turn it to the right.
  - The display prompts you to close the safety circuit.
3. Press the "Reset" button.
  - The machine is now ready for operation.

#### NOTE!

If, when the shredder is started, the baling ram (fig. 14/1) of the baler is not in its basic position (rearmost position), a compression stroke with following return stroke is carried out automatically before the cutter and conveyor belt start.

#### Attention: The system only functions if:

- The emergency stop bar (fig. 6/1) is released (pull red bar at table forward)
- The key switch (fig. 7/1) has been unlocked (turn key clockwise)
- The mains switch (fig. 7/2) has been switched on (switch position "1")
- The safety switch activator (fig. 4/1) has been inserted into the safety switch at the baler
- The inlet flap (fig. 1/5), the discharge flap (fig. 1/1) and the cover flap (fig. 1/3) are closed.

### 5.2 Loading the shredder

#### CAUTION!

##### Risk of injury from the cutting rollers, damage to the cutting mechanism!

- ☞ The operator may not stand higher than the machine itself stands, when feeding paper to the machine!

Standing on an raised platform (such as pallets or boxes placed in front of the machine) reduces the distance between operator and cutting system to a level which does not meet the required safety standard.

- ☞ Never feed the shredder with a quantity of paper exceeding the maximum indicated in the „Technical data“, p. 28.

Should the machine become overloaded, follow the instructions under „Automatic response in case of „overloading““, p. 22.

#### Feeding with smooth paper:

Feed material for the shredder can consist of stacks of smooth paper (up to about **550 sheets**, depending on the type and size of paper); and also crumpled paper and cardboard. Place any material to be shredded on the moving conveyor belt which feeds it to the cutting system.

It is advisable to place stacked paper diagonally on the belt. In this way, the corner of the stack will be fed to the cutting system first, thus avoiding a sudden overload.

#### Feeding with complete binders:

Shredders equipped with a cutting system with 7.8 x 55 mm or 10 x 70 mm cutting width, can also be fed with complete binders (incl. metal parts). In this case the binder should be opened and the contents spread out equally.

**Important note:** The removing of the metal parts beforehand makes the recycling of the shredded material possible and ensures a longer life of the cutting system.

### 5.3 Automatic response in case of „overloading“



#### CAUTION!

##### Risk of injury!

Never pull paper from the cutting mechanism by hand when the machine is performing an automatic feeding operation!

In case you accidentally overload the shredder, it will automatically alleviate the problem as follows:

- The cutting system becomes jammed.
- The cutting system and the conveyor belt run briefly in reverse, thereby freeing the material to be shredded.
- The cutting system and the conveyor automatically switch back to forward mode.

The machine repeats this process until the all the material has been shredded satisfactorily.

### 5.4 16.99 with baler: Jam outlet

If the space in the hopper (fig. 1/2) is completely filled with cutting material due to a jam in the filler hole of the baler, the machine switches off when the cover flap (fig. 1/3) is raised.

A specific pop-up windows containing error messages appear on the display. These provide information about the cause and remedies.

If this is the case, switch the machine off at the main switch (fig. 7/2), lift up the cover flap and remove the material from the machine by hand. Then you can switch the machine on again and continue shredding.



#### NOTE!

The machine can only be started when the cover flap (fig. 1/3) is closed.



### 5.5 16.99 with discharge conveyor: Automatic stop in case of full conveyor belt housing

The machine switches off automatically when paper jams in the conveyor belt housing (fig. 15/1). Then proceed as follows to empty the housing:

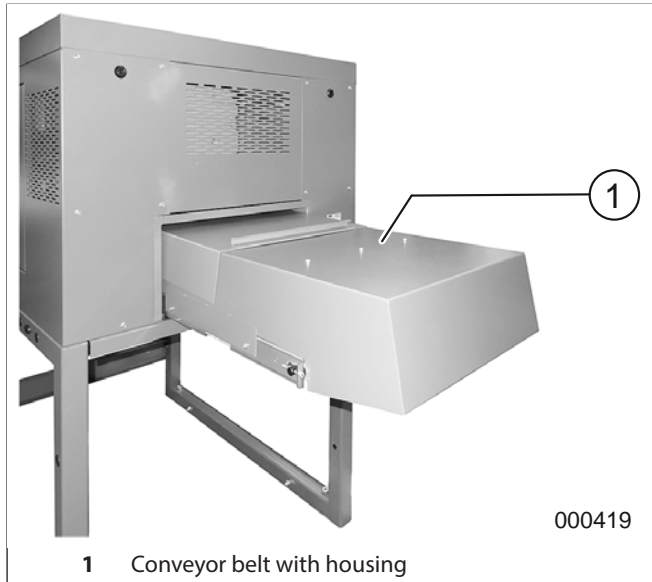


fig. 15 Shredder back

### 5.6 16.99 with discharge conveyor: Emptying the conveyor belt housing

A specific pop-up windows containing error messages appears on the display.

If this is the case, switch the machine off at the main switch (fig. 7/2), lift up the cover flap (fig. 16/3) and remove the material from the housing by hand. Grasp the housing in both directions. Then you can switch the machine on again and continue shredding.

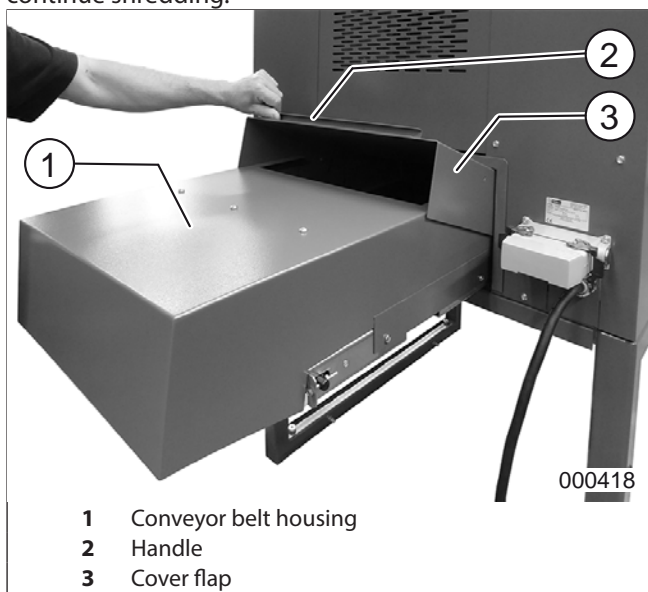


fig. 16 Emptying the conveyor belt housing

**NOTE!**

The machine can only be started when the cover flap (fig. 16/3) is closed.

### 5.7 Automatic lubrication system

See enclosed instructions (item no. 94658) for automatic lubrication system.

## 6 Baler operation

### 6.1 Using the baler

The strap brake (fig. 17) must be closed (move lever to right).

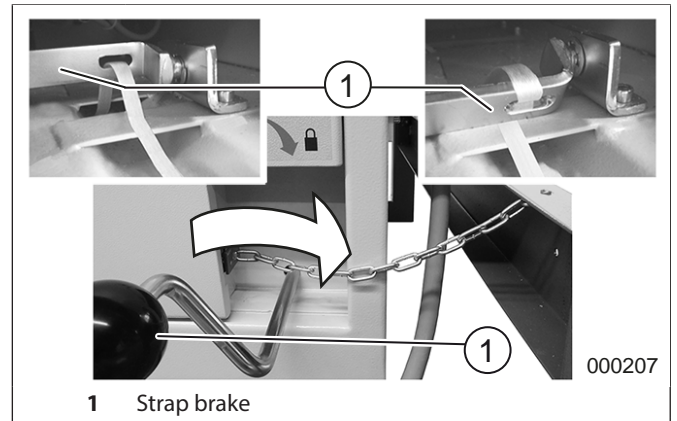


fig. 17 Strap brake

**NOTE!**

If baling is to be performed without subsequent tying off, refer to "C) Eject into plastic sack without tying off".

### 6.2 Feeding the baler via the shredder

When the baling chamber and the inlet funnel are filled with material from the shredder, the compacting cycle is started: The baling ram (fig. 14/1) advances, compacts the material and then returns to home position. The shredder may be fed while the baler is compacting.

## 6.3 Feeding the baler manually



### CAUTION!

#### Danger of explosion! Risk of injury!

Do not compact aerosol containers such as spray cans etc.

Non-confidential materials can also be fed manually to the baler. Return the baling ram to its rear, home position if necessary (close the inlet flap and press the "Return Ram" key (fig. 13/3)) and proceed as follows:

1. Open the inlet flap (fig. 1/5).
2. Insert material into the baling chamber.
3. Close the inlet flap and activate the „Advance Ram“ Key (fig. 13/1).
  - The baling ram travels forwards (compacting cycle) and, when the compaction procedure is complete, returns to its home position. Feeding may now be continued.

## 6.4 Completing the bale

When, after several compacting cycles, the baling ram (fig. 14/1) no longer returns to home position, but rather remains pressed against the bale, maximum bale volume has been reached. The bale must be tied off and ejected.

Confirm the „bale ready“ mode by operating the red „Stop button“, (fig. 7/5).



### NOTE!

The shredder cannot be started while the bale is being tied off and ejected (inlet and discharge flaps are open).

The bale can be ejected in three different ways, and then removed.

**A) Tie off and eject into plastic sack** (for small particles) (fig. 9, 10, 11, 12 and 13)

**B) Tie off and eject without plastic sack** (for large particles) (fig. 9, 10 and 12)

**C) Eject into plastic sack without tying off** (for small particles) (fig. 11 and 13)



### NOTE!

Suitable sacks and straps can be ordered at any time (see „Accessories“, p. 28).

### Tying off the bale

1. Open the inlet flap (fig. 20/3).
2. Open the strap brake (fig. 17/1).
3. Pull the straps to approximately 40 cm above the baling ram with the help of the strap lifters (fig. 18/2) and the included strap hook.

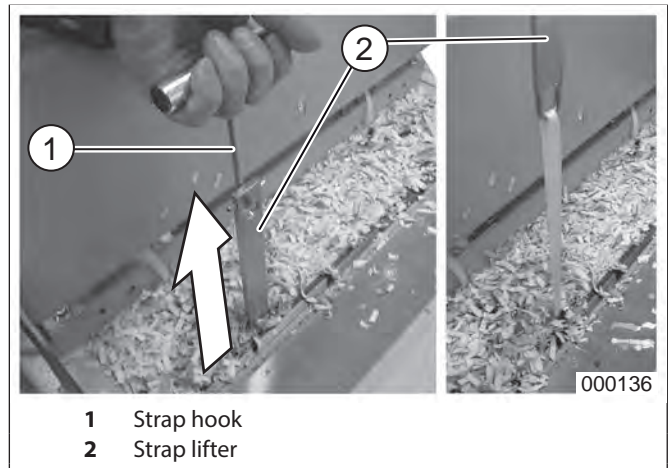


fig. 18 Strap lifters

4. Firmly hold the straps and return the strap lifters to their original position.
5. Loosen the strap ends (fig. 23/3) which have been secured to the baler housing, knot them together with the respective straps pulled out in the preceding step (fig. 19) and cut the strap behind the knot with a pair of scissors.
6. Close the inlet flap (fig. 20/3).



fig. 19 Tying off the bale

## 6.5 Ejecting the bale

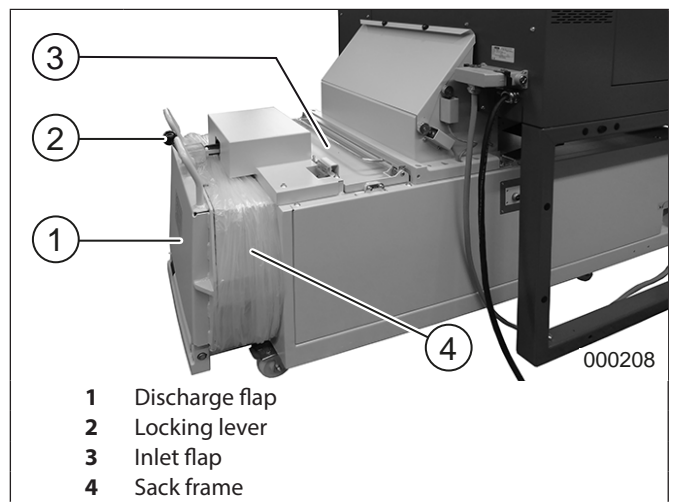


fig. 20 Opening the discharge flap

### Opening the discharge flap (fig. 20/1):

1. Press and hold the "Open Discharge Flap" key (fig. 13/2) for at least 2 seconds. The baling ram travels a short dis-

tance in reverse, and the locking lever (fig. 20/2) travels a short distance forward in order to relieve pressure at the discharge flap.

2. Slightly lift the locking lever (35).
3. Swing the discharge flap down.

### A) Tie off and eject into plastic sack

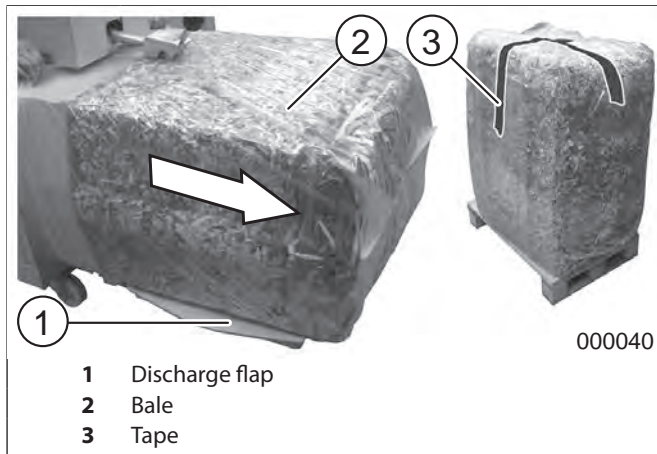


fig. 21 Ejecting the bale

1. Close the inlet flap (fig. 20/3).
2. Open the discharge flap (fig. 20/1).
3. Press and hold the "Advance Ram" key (fig. 13/1). The completed, tied off bale is ejected into the plastic sack and is pushed onto the discharge flap (fig. 21).

#### ! NOTE!

For reasons of safety, advance and reverse ram travel is only possible in inching operation when the discharge flap is open. The key must thus be pressed and held in order to eject the bale.

4. Remove the sack from the sack frame (fig. 20/4).
5. Fold the end of the sack together and seal with tape (fig. 21/3). The bale can now be removed.

### B) Tie off and eject without plastic sack

Same as described under "A)", except no plastic sack is used. The bale can be removed immediately after ejection.

### C) Eject into plastic sack without tying off

#### ! NOTE!

In this case, the tie-off straps which have been laid out inside the baling chamber must be removed and rolled back onto the strap rolls (fig. 5/2).

1. Close the inlet flap and open the discharge flap.
2. Press the bale into the plastic sack and onto the discharge flap (fig. 21) by activating the "Advance Ram" key (fig. 13/1).
3. Fold the end of the sack together and seal with tape (fig. 21/3). The bale can now be removed.
4. Return the baling ram to home position by pressing the "Return Ram" key (fig. 13/3) and close the inlet flap.

#### ! NOTE!

This is only possible in inching operation when the discharge flap is open.

## 6.6 Installing a new plastic sack

#### ! NOTE!

If the bale is to be tied off, the straps must be laid out as described under „Inserting straps for a new bale“, p. 25 before the sack is installed to the sack frame (fig. 22) (does not apply for option "C").



fig. 22 Installing a new plastic sack

1. Open the discharge flap and return the baling ram to its rear, home position. The inlet flap remains closed.
2. Push the sack bit by bit over the sack frame (fig. 22) until the entire sack has been mounted to the frame.
3. Close the discharge flap.

## 6.7 Inserting straps for a new bale

1. Return the baling ram to home position by pressing the "Return Ram" key (fig. 13/3).

#### ! NOTE!

This is only possible in inching operation when the discharge flap is open.

2. Open the inlet flap.
3. Pull the straps out a distance equivalent to about one flap length, guide the strap ends from the inside over the strap hook (fig. 23/1+2), through the inlet opening and up to the strap clamps (fig. 23/3). Secure the strap ends here by wrapping them twice around the clamps.

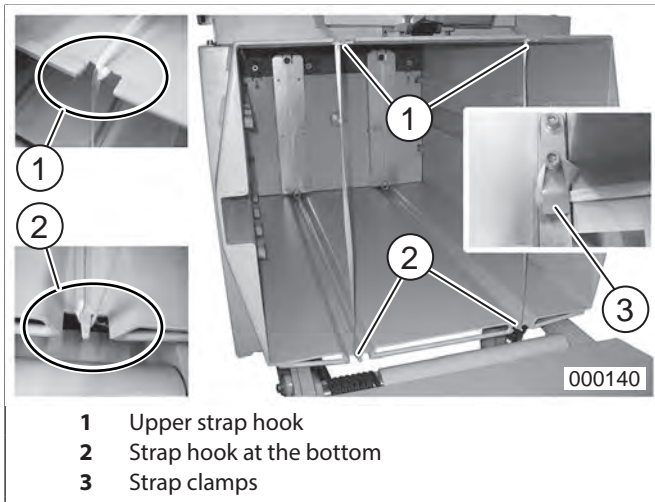


fig. 23 Inserting straps for a new bale

4. Close the strap brake (fig. 17).

**!** **NOTE!**

In order to allow for subsequent tying off of the bale, the strap brake must be closed before the compacting cycle.

5. Close the discharge flap (fig. 20/1), as well as the inlet flap (fig. 20/3), if the shredder is to be used.

**!** **NOTE!**

In order to avoid damage to the straps, it is advisable to refrain from compacting bottles, glass or other objects with sharp edges such as sheet metal etc.

## 6.8 Replacing the strap rolls

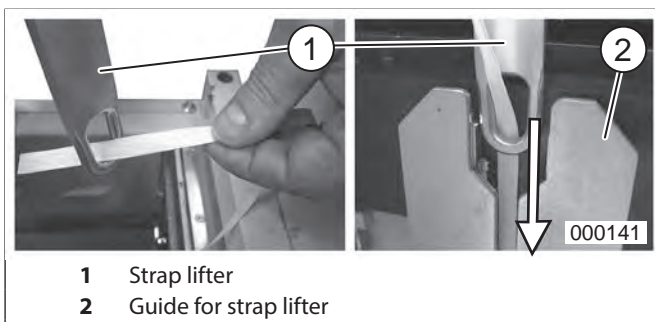


fig. 24 Strap lifter

1. Close the inlet flap and advance the baling ram about 30 cm.
2. Open the inlet flap and remove both strap lifters (fig. 24/1).
3. Open the strap brake (fig. 17).
4. Insert the strap rolls (fig. 25/2) in to the strap roll holder (fig. 25/1) as shown, with the strap ends pointing down.
5. Secure the strap end to the loop on the included pull cable and feed the other end of the pull cable (fig. 25/4) through the opening at the strap brake (fig. 25/5) and into the strap guide (fig. 25/3). The strap can now be pulled through the strap guide with the pull cable, until it is visible within the baling chamber.

6. Loosen the strap end from the pull cable as shown, feed it through the strap lifter (fig. 24/1) and set the strap lifter back into place at the baling ram (fig. 24/2).
7. Insert both straps as described under „Inserting straps for a new bale“, p. 25 and close the strap brake (fig. 25/5).
8. Close the discharge and the inlet flaps and return the baling ram to its rear, home position.

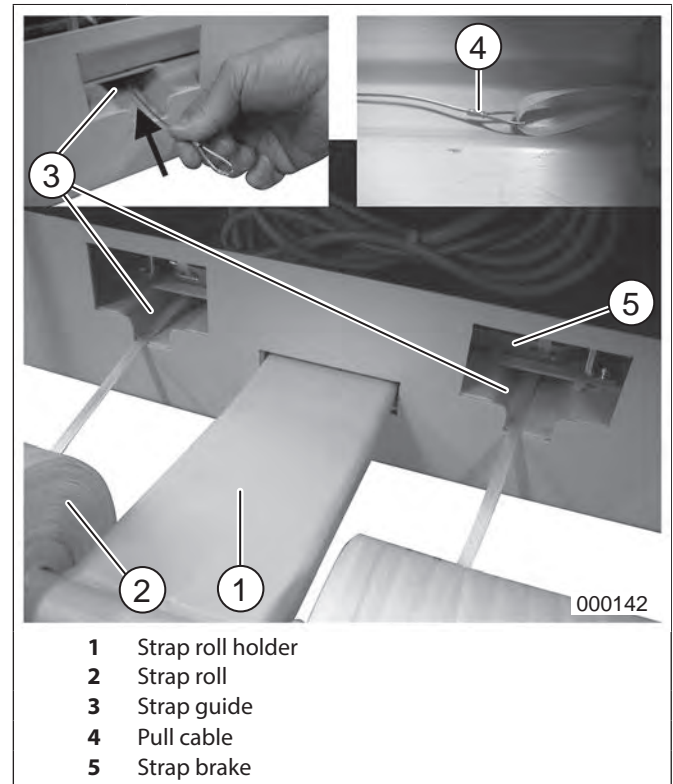


fig. 25 Replacing the strap rolls

- 1 Strap roll holder
- 2 Strap roll
- 3 Strap guide
- 4 Pull cable
- 5 Strap brake



## 7 Malfunction



### DANGER!

#### Risk of death by electrocution!

Always unplug the machine from the mains power supply, turn off the main switch and lock it with a padlock before opening the machine to carry out any repairs.



### NOTE!

If operating errors occur, specific pop-up windows containing error messages appear on the display. These provide information about the cause and remedies.

If the problem cannot be resolved, touch the blue question mark — the address of your service technician appears.

### 7.1 Motor faults

If the shredder or baler should become overloaded, an installed thermostat breaks the electrical circuit for full operation. A pop-up window containing the respective error message appears.

After cooling (approx. 30 min), the machine can be used again at full capacity.



### NOTE!

If the machine no longer operates at full capacity, even though the overheated motor has been allowed to cool down (pop-up window no longer closes), there is a defect in the machine. In this case, please inform our customer service department.

### 7.2 Fault checklist

If the machine is not functioning properly, you should check the following:

- is the machine plugged into the mains power supply?
- is the connector plug from the baler plugged into the outlet (fig. 1/4) at the shredder?
- has the safety switch activator (fig. 4/1) been inserted into the safety switch at the baler?
- has the key switch (fig. 7/1) been activated?
- is the mains switch (fig. 7/2) turned on?
- is the emergency stop bar (fig. 6) in the forward position?
  - Pull red bar at table forward.
- is there a paper jam in the machine?
  - Follow the instructions for „Automatic response in case of „overloading“, p. 22.
- are the inlet flap (fig. 1/5) and the discharge flap (fig. 1/1) at the baler closed?
- is the cover flap (fig. 1/3) closed?
  - See description under „16.99 with baler: Jam outlet“, p. 22.
- is the motor overloaded?
  - Please refer to the section headed „Motor faults“,

p. 27.

- is there a phase failure?
  - Check the three-phase fuse at the power supply socket, and replace if necessary.



### NOTE!

If none of the listed inspection points are relevant, or if other machine malfunctions are identified, the machine must not be operated! In such cases, please inform our customer service department.

## 8 Maintenance / Disposing

### 8.1 Gear box maintenance



### DANGER!

#### Risk of injury from electric shock and moving parts!

Before opening the housing, switch off the machine at the main switch and unplug the mains plug.



### NOTE!

The machine may not be modified in any way! Operation of the machine is prohibited if modifications are undertaken!

Both synchron gears, as well as the chain wheels and drive chains must be greased monthly.

Proceed as follows:

1. Remove the right-hand side panel from the housing.
2. Grease the above mentioned parts with a brush or a grease gun, and a standard, commercially available grease.
3. Re-install the side cover and connect the machine to the mains. The machine can be put back into operation.

### 8.2 Energy saving tip

Be certain that the machine is turned off overnight (main switch (fig. 7/2) switched to „0“).

### 8.3 Checking the oil level

Unscrew the dipstick (fig. 26/1) in order to check the oil level. The marking on the dipstick must be wetted with oil. If this is not the case, add oil.

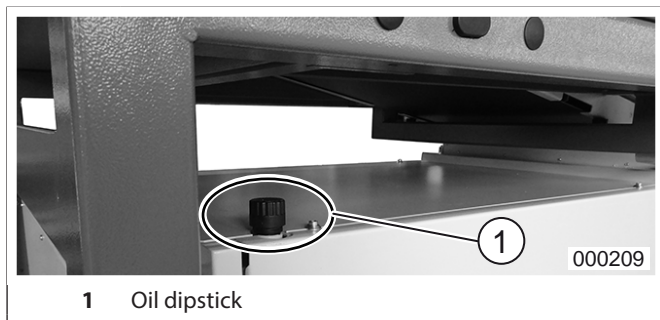


fig.26 Check oil level baler

## 8.4 Disposing of the machine



Dispose of the machine in an environmentally sound fashion at the end of its useful service life. Do not dispose of any of the parts included in the machine or its packaging with household trash.

## 9 Accessories

Description	Order-No.
Plastic sac, 600 x 490 x 1500 x 0,06 mm	99969
Bottle of oil, 2 l	91869
Strap roll, 8 mm / 500 m	80661



### NOTE!

Please contact your dealer when ordering accessories and replacement parts.

## 10 Technical data

### Shredder

<b>Cutting size:</b>	10 x 70 mm 6 x 50 mm
<b>Cutting capacity (in zwei Stapeln)</b>	
10 x 70 mm:	470 - 520 sheets (70g/m <sup>2</sup> )
6 x 50 mm:	300 - 330 sheets (70g/m <sup>2</sup> )
<b>Working width:</b>	500 mm
<b>Power:</b>	11,5 kW
<b>Weight:</b>	approx. 726 kg

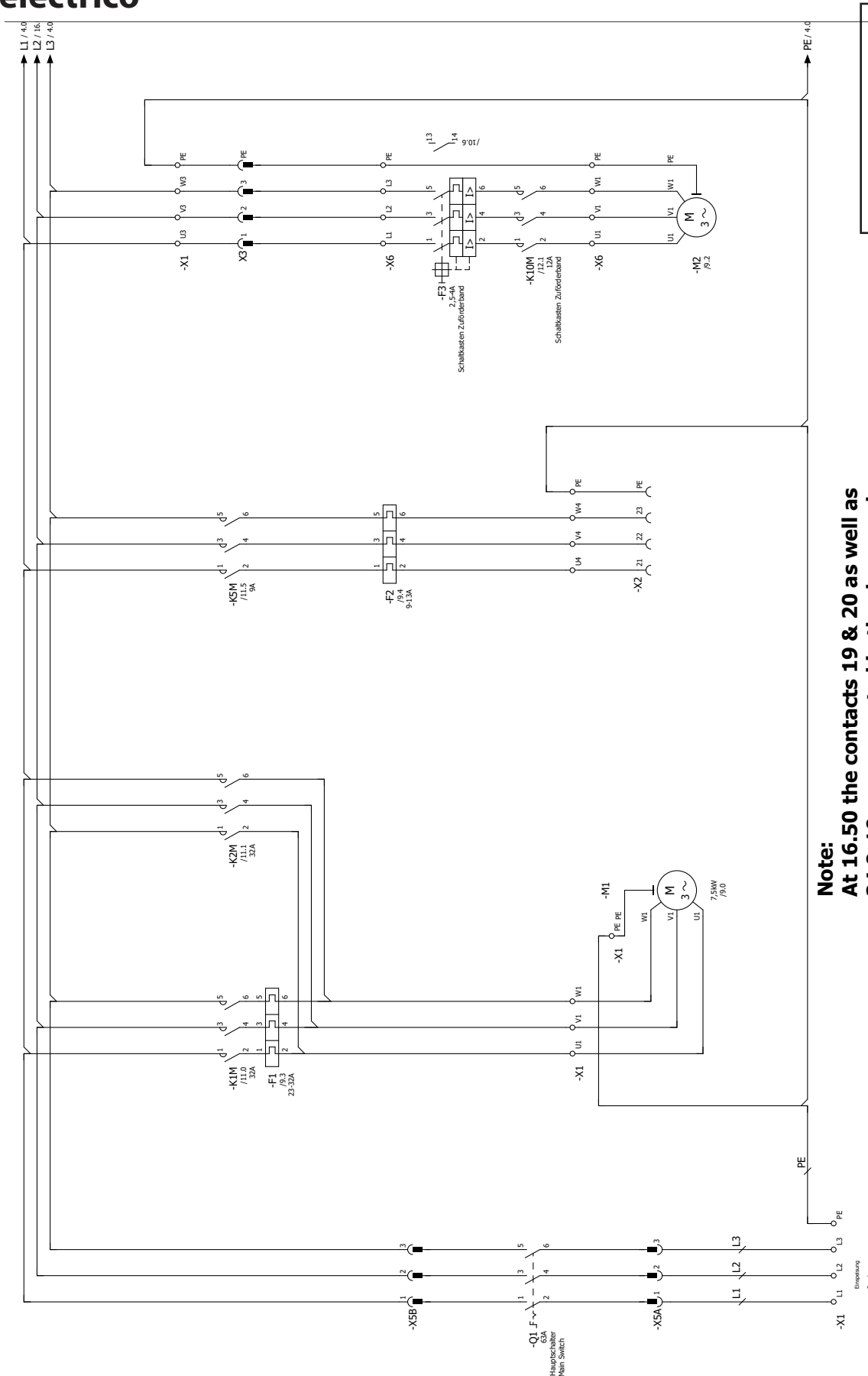
### Baler

<b>Press force:</b>	approx. 8 t
<b>Power:</b>	4 kW
<b>Chamber space:</b>	570 x 460 x 1000 mm
<b>Inlet opening:</b>	570 x 340 mm
<b>Machine weight:</b>	approx. 530 kg
<b>Bale weight:</b>	approx. 60 - 80 kg
<b>Bale size:</b>	500 x 600 x 750 mm

### Combination

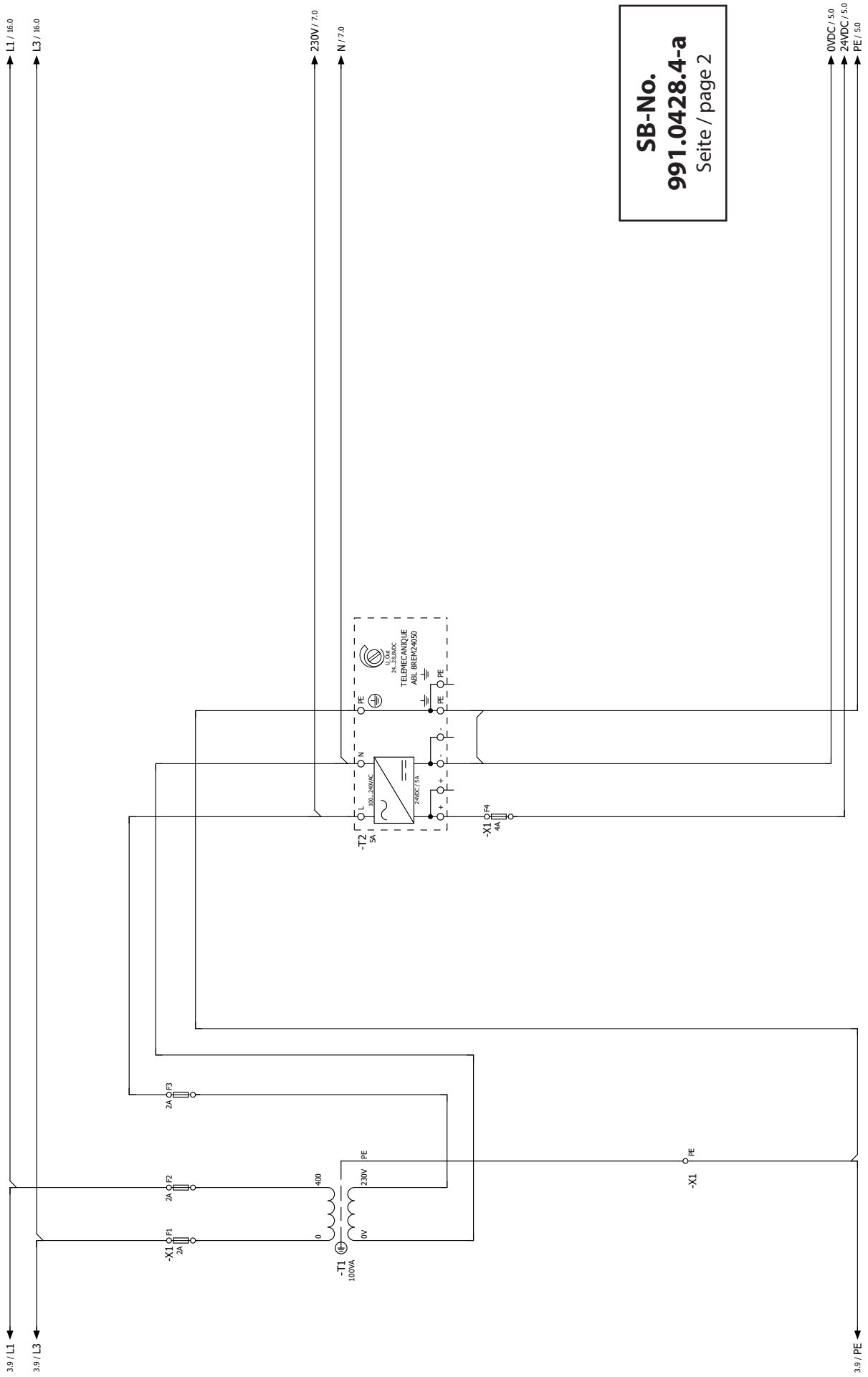
<b>Supply voltage:</b>	400 V/50 Hz, 415 V/50 Hz, 200 V/50 Hz 230 V/50 Hz, 220 V/60 Hz, 200 V/60 Hz
<b>Pre-fusing:</b>	400 V - 415 V / 50/60 Hz = 35 A (gG fuse, type 1 assignment) 200 V/50 - 60 Hz = 63 A
<b>Length:</b>	2835 mm
<b>Width:</b>	3790 mm
<b>Height:</b>	2351 mm
<b>Length with open discharge flap:</b>	3480 mm
<b>Noise level:</b>	approx. 61 dB (A)
<b>Overall weight:</b>	approx. 1600 kg (shredder+baler+ feeding conveyor)

# 11 Schaltbild / Wiring Diagram/ Plan de montage / Diagrama eléctrico



**SB-No.**  
**991.0428.4-a**  
Seite / page 1

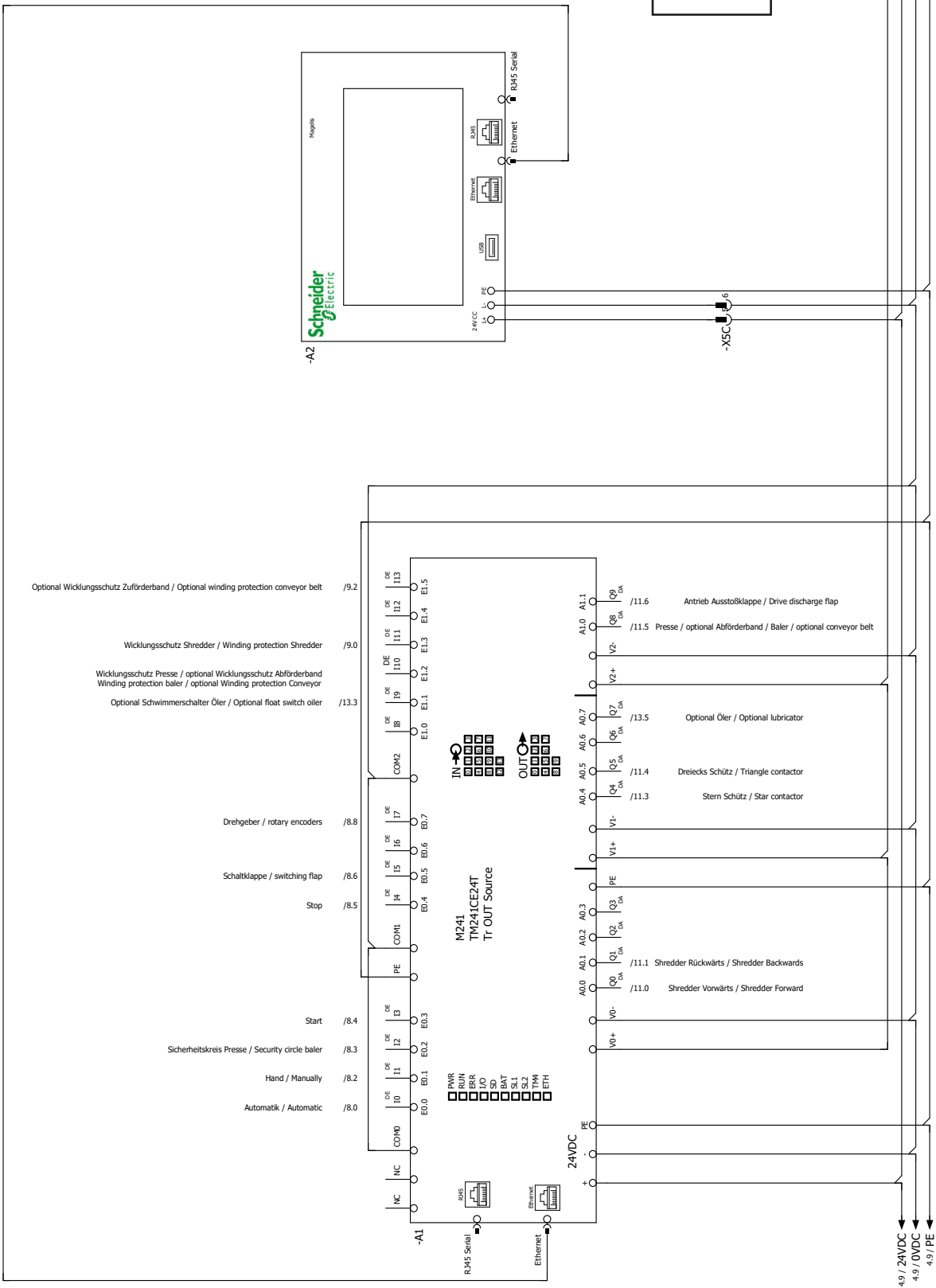
**Note:**  
At 16.50 the contacts 19 & 20 as well as 24 & 10 are connected in the dummy plug



**SB-No.**  
**991.0428.4-a**  
 Seite / page 2

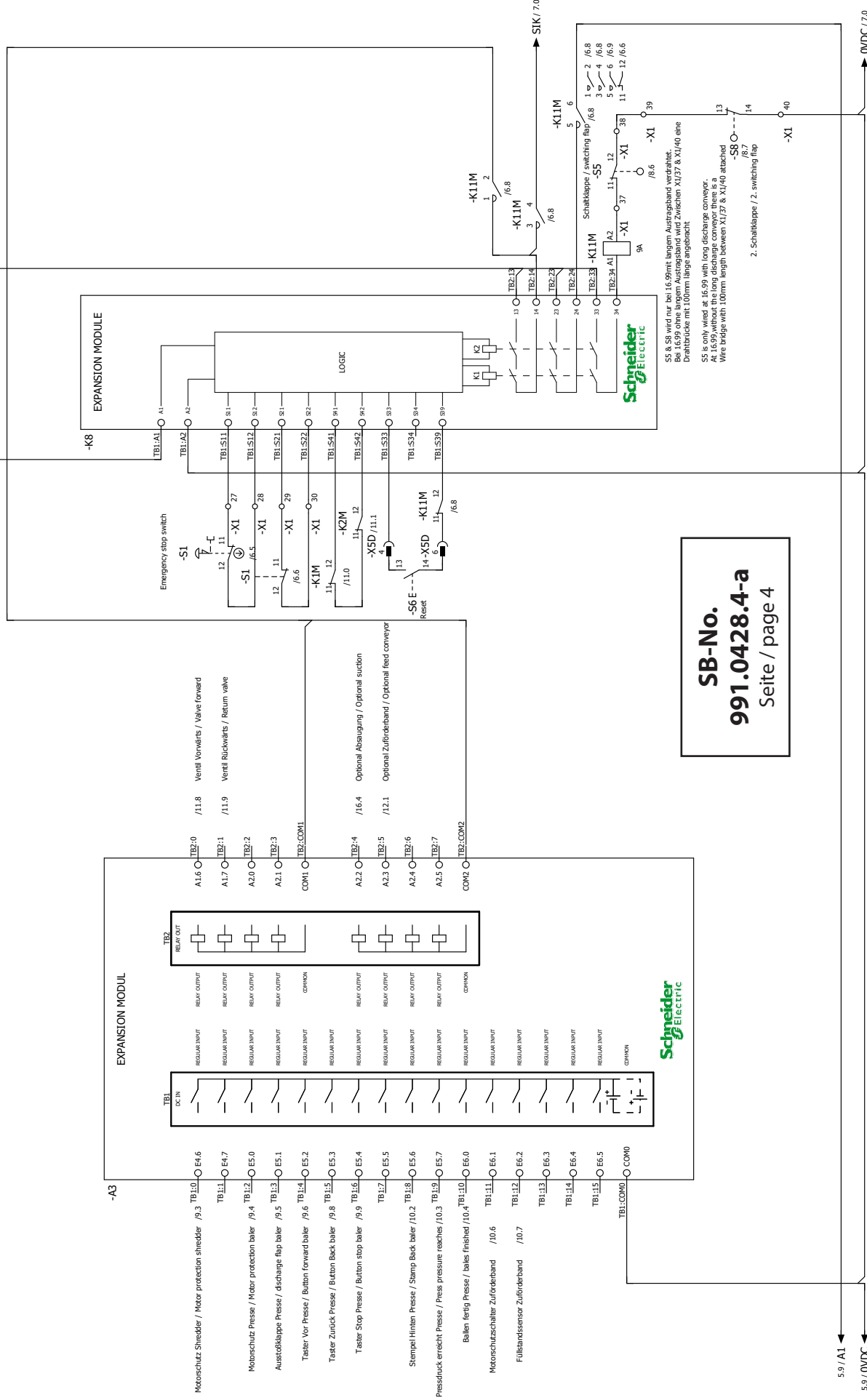


**SB-No.**  
**991.0428.4-a**  
Seite / page 3



5.9 / 24VDC

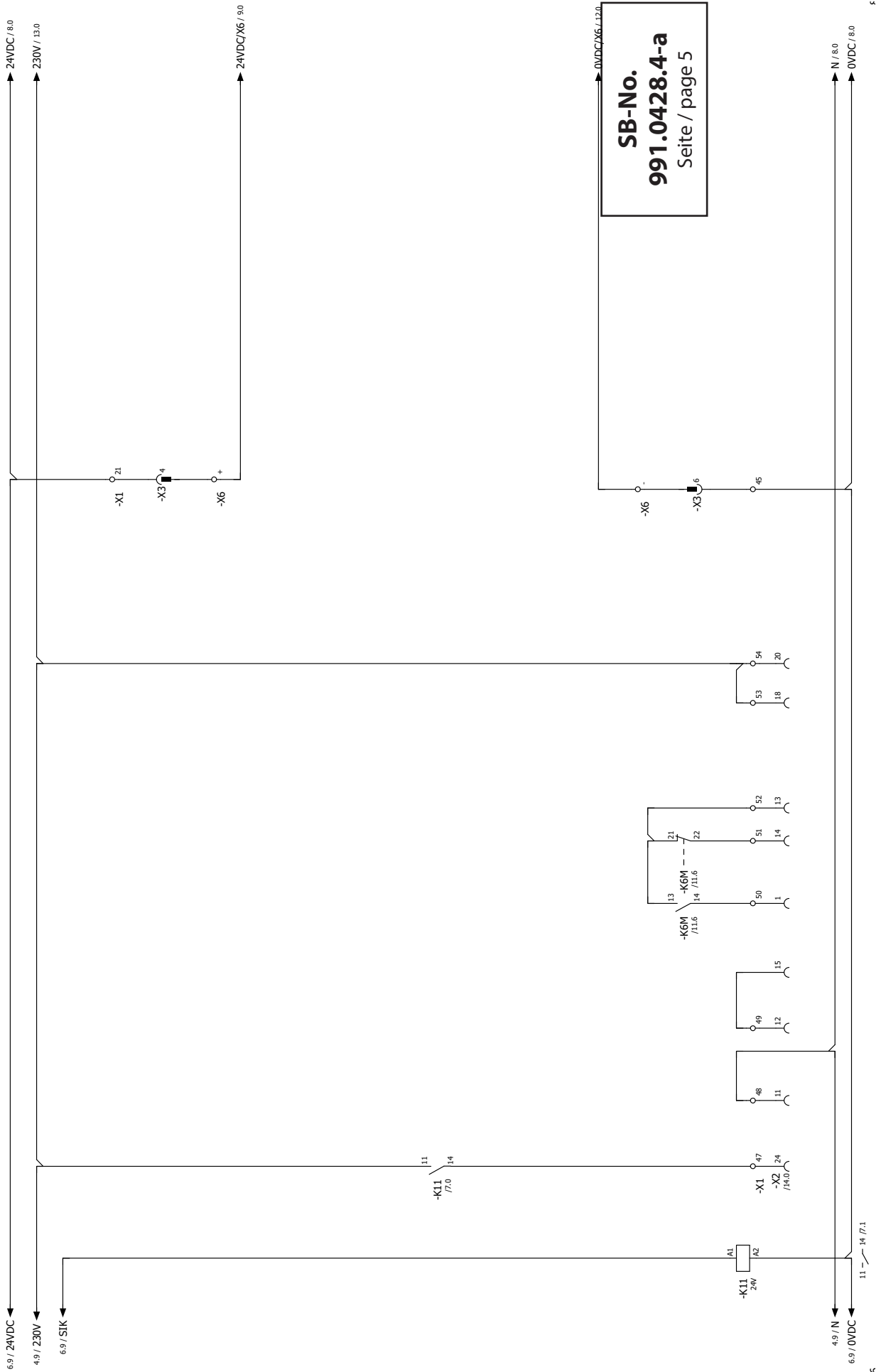
24VDC / 7.0

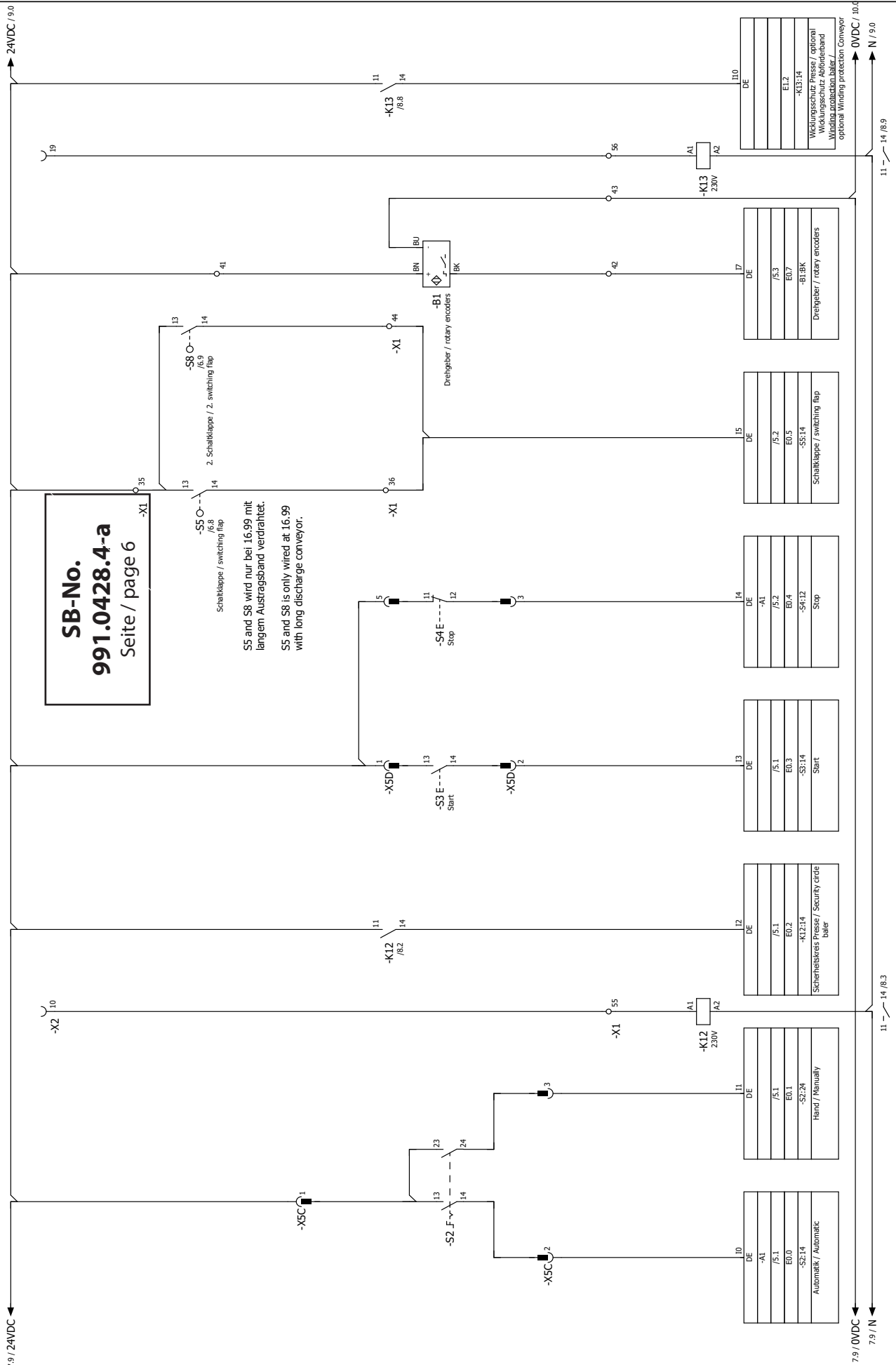


**SB-No.**  
**991.0428.4-a**  
 Seite / page 4

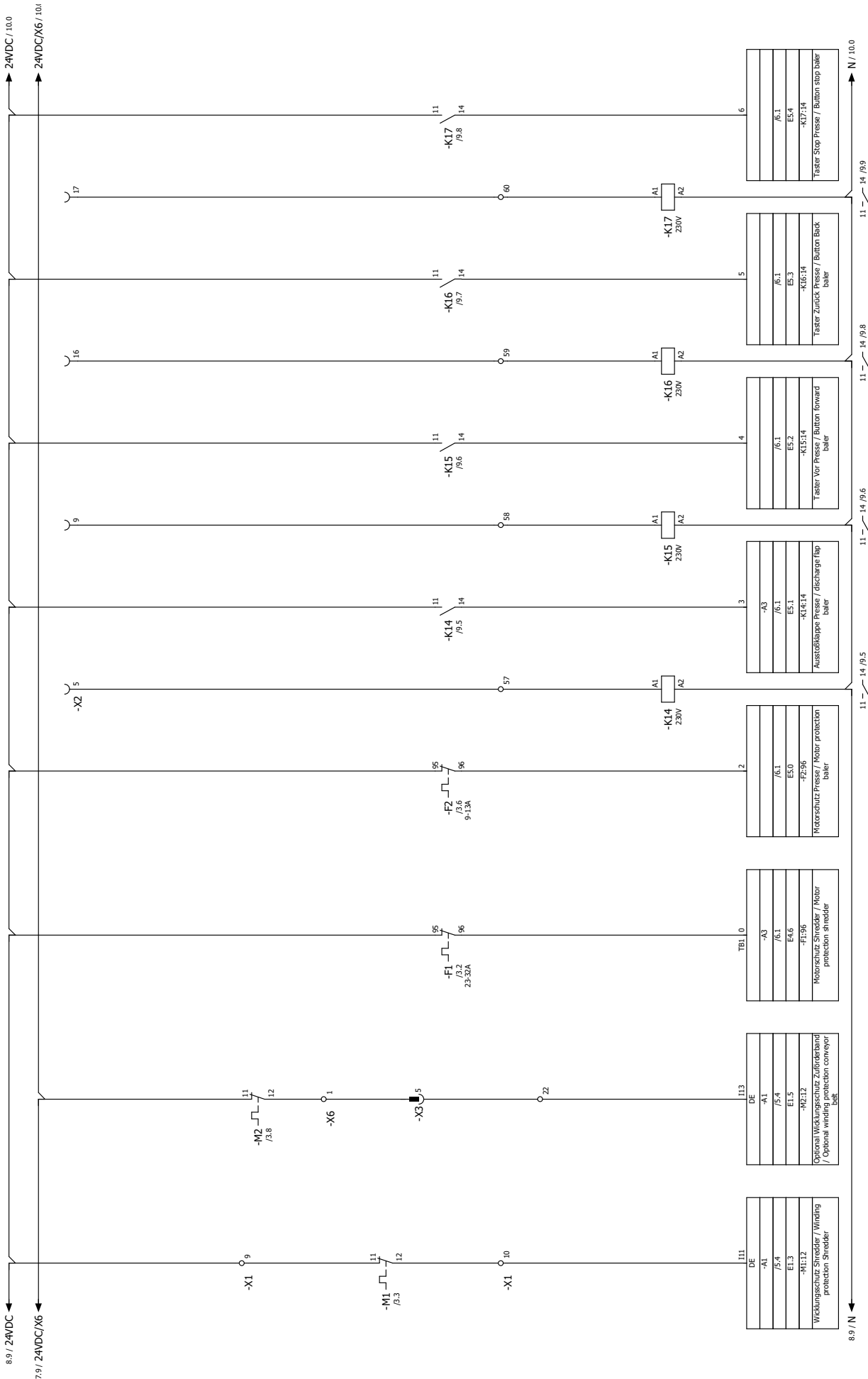


S5 & S6 wird nur bei 16.99 mit langem Austragsband verwendet.  
 Bei 16.99 ohne langem Austragsband wird Zwischen -X1/37 & X1/40 eine Drahtbrücke mit 100mm Länge angebracht.  
 S5 is only wired at 16.99 with long discharge conveyor.  
 At 16.99 without the long discharge conveyor there is a wire bridge with 100mm length between X1/37 & X1/40 attached.  
 2. Schaltklappe / 2. switching flap

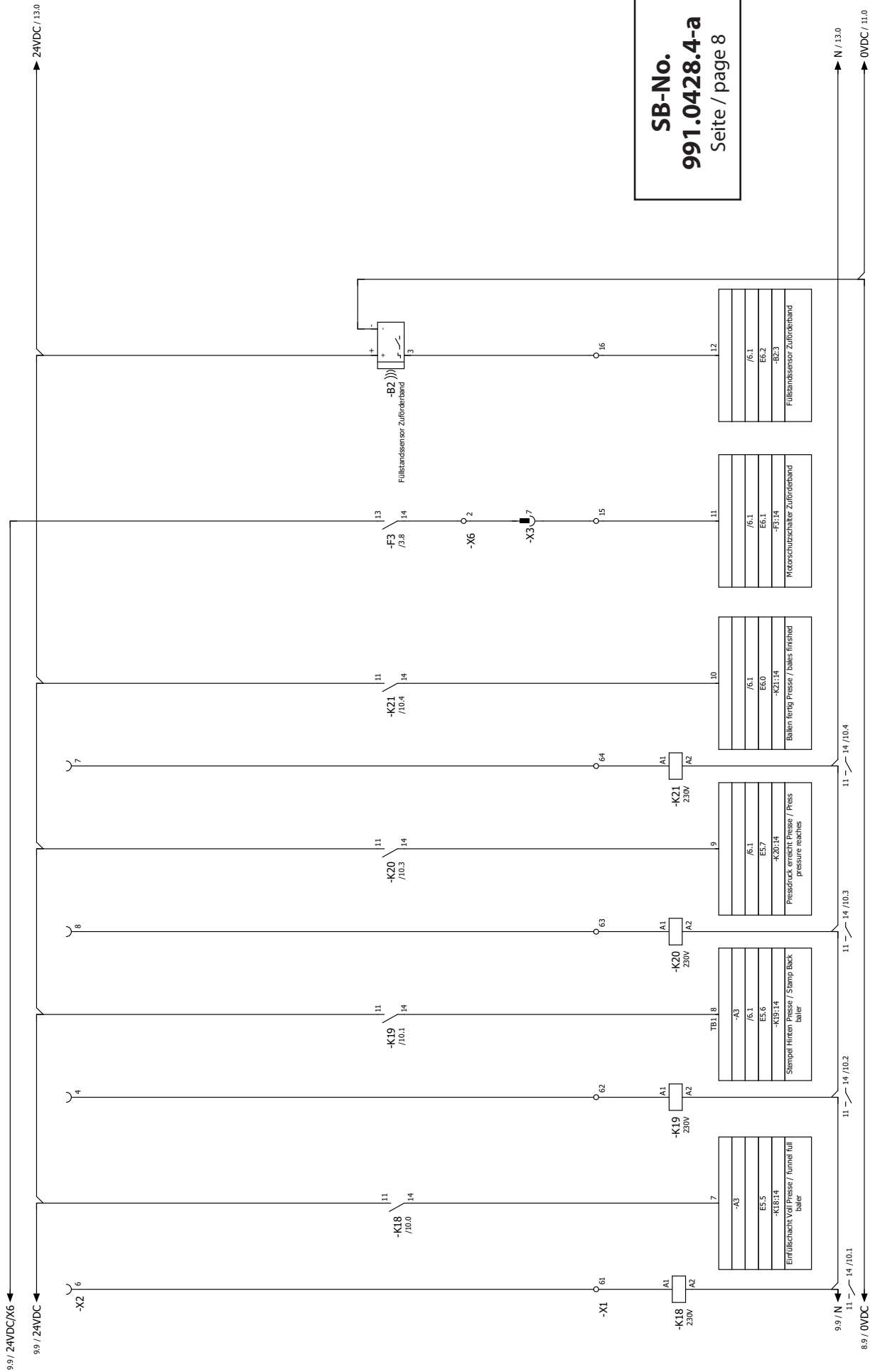




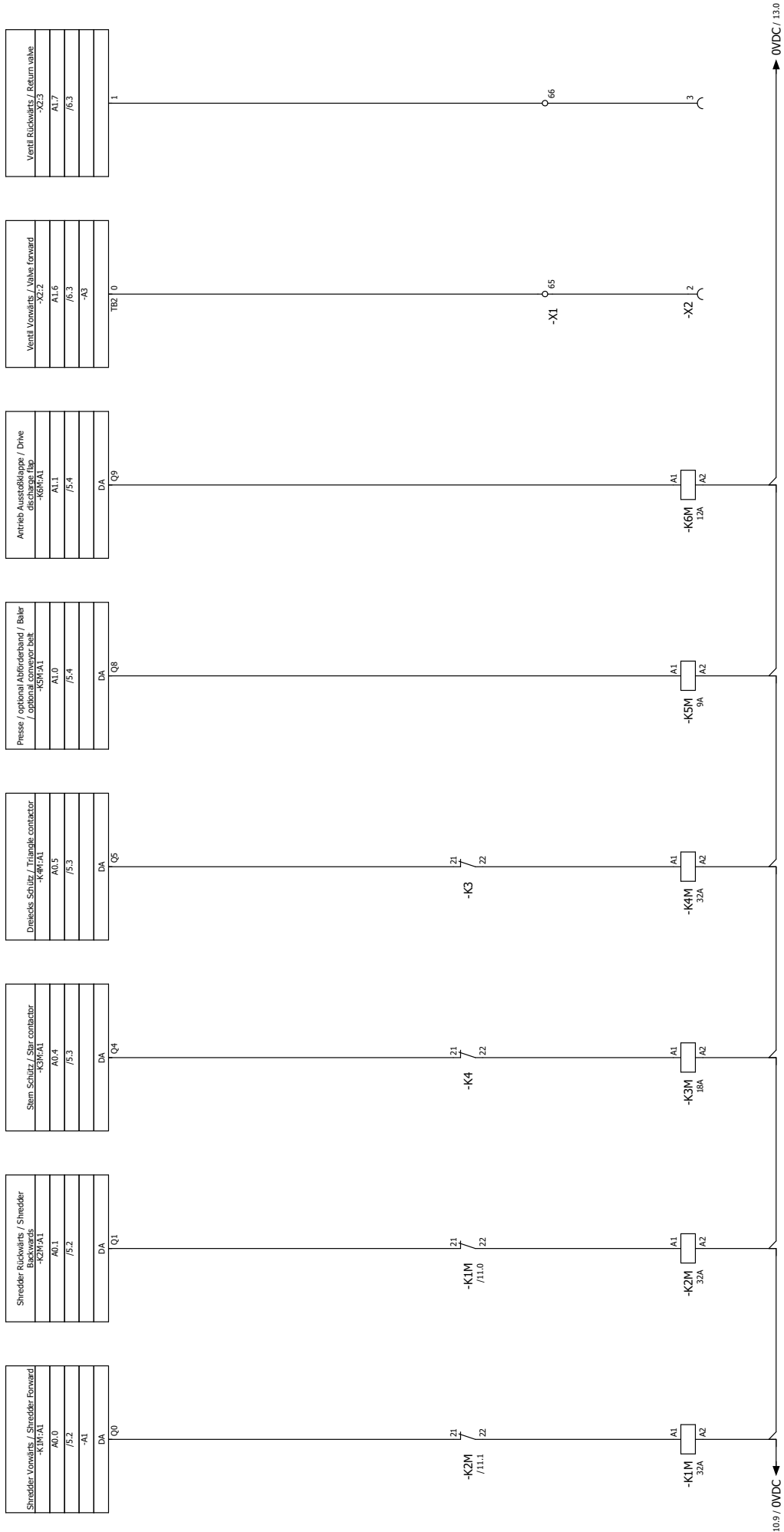




**SB-No.**  
**991.0428.4-a**  
Seite / page 7

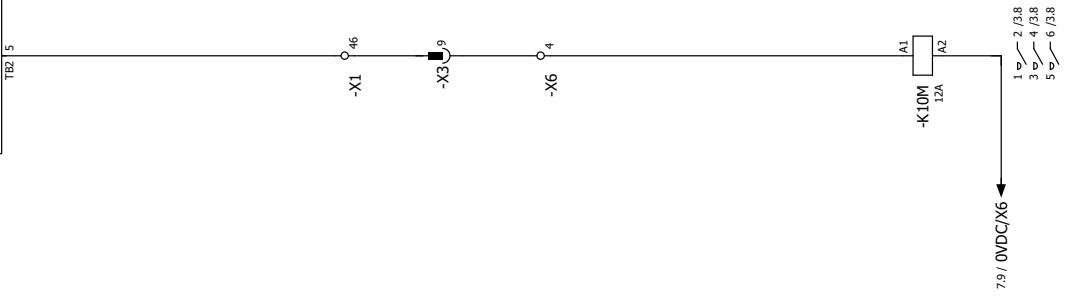


**SB-No.**  
**991.0428.4-a**  
Seite / page 8



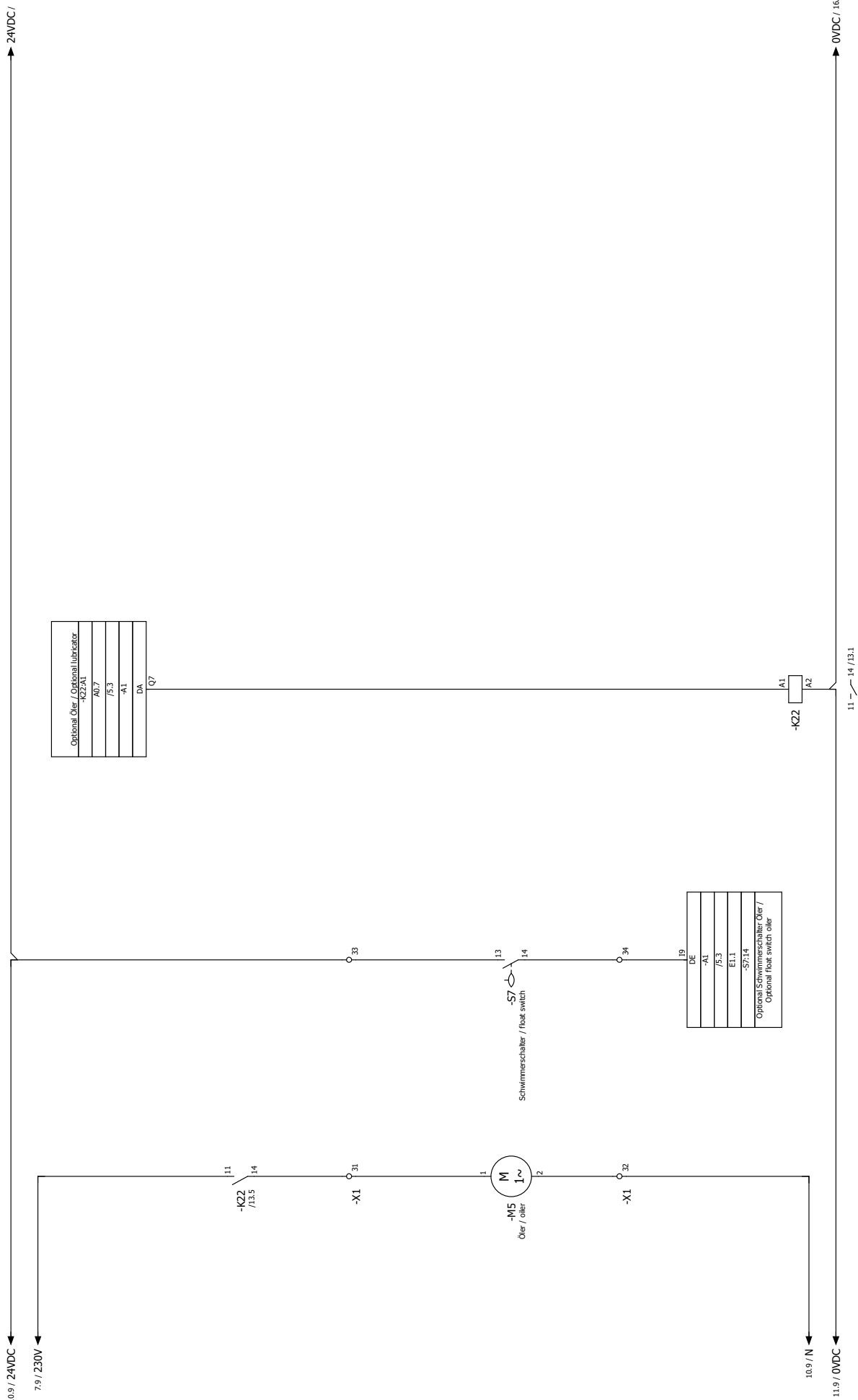
**SB-No.**  
**991.0428.4-a**  
Seite / page 9

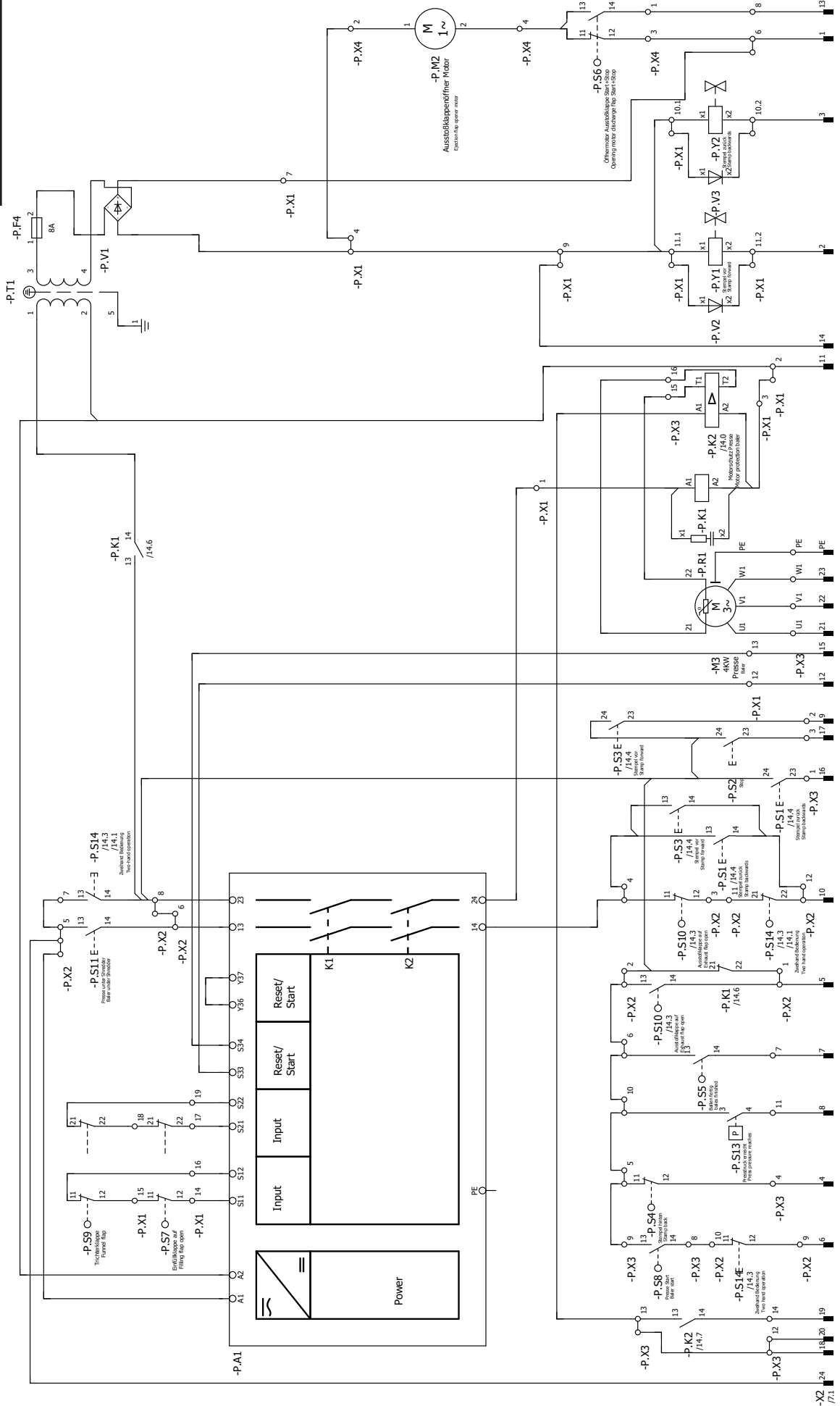
Optional Zuführband / Optional feed conveyor
-K10M/A1
A2.3
/6.3
-A3
TR2   5



**SB-No.**  
**991.0428.4-a**  
 Seite / page 10

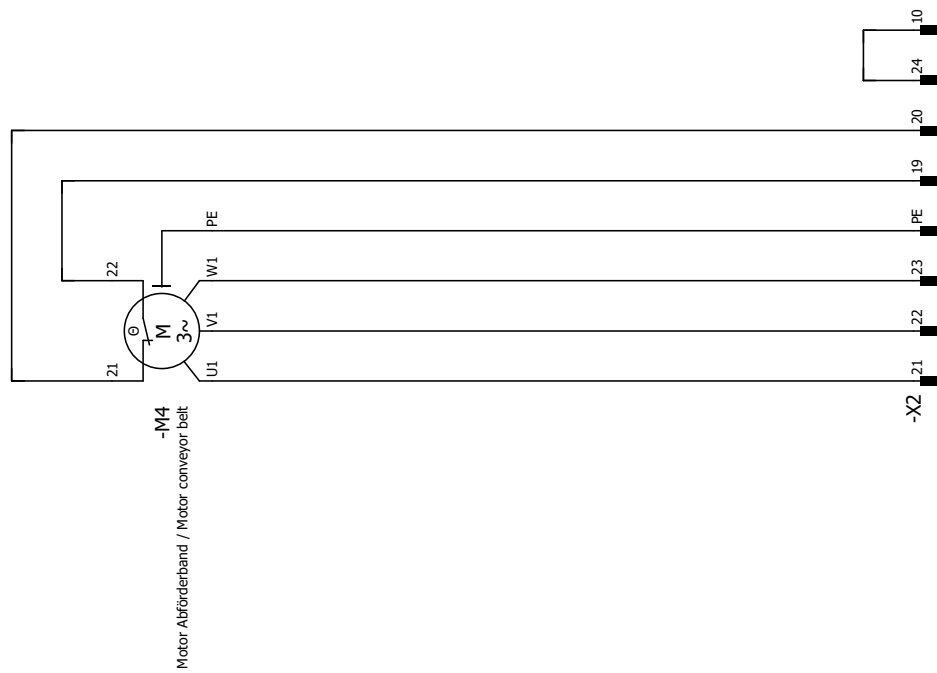
**SB-No.**  
**991.0428.4-a**  
 Seite / page 11

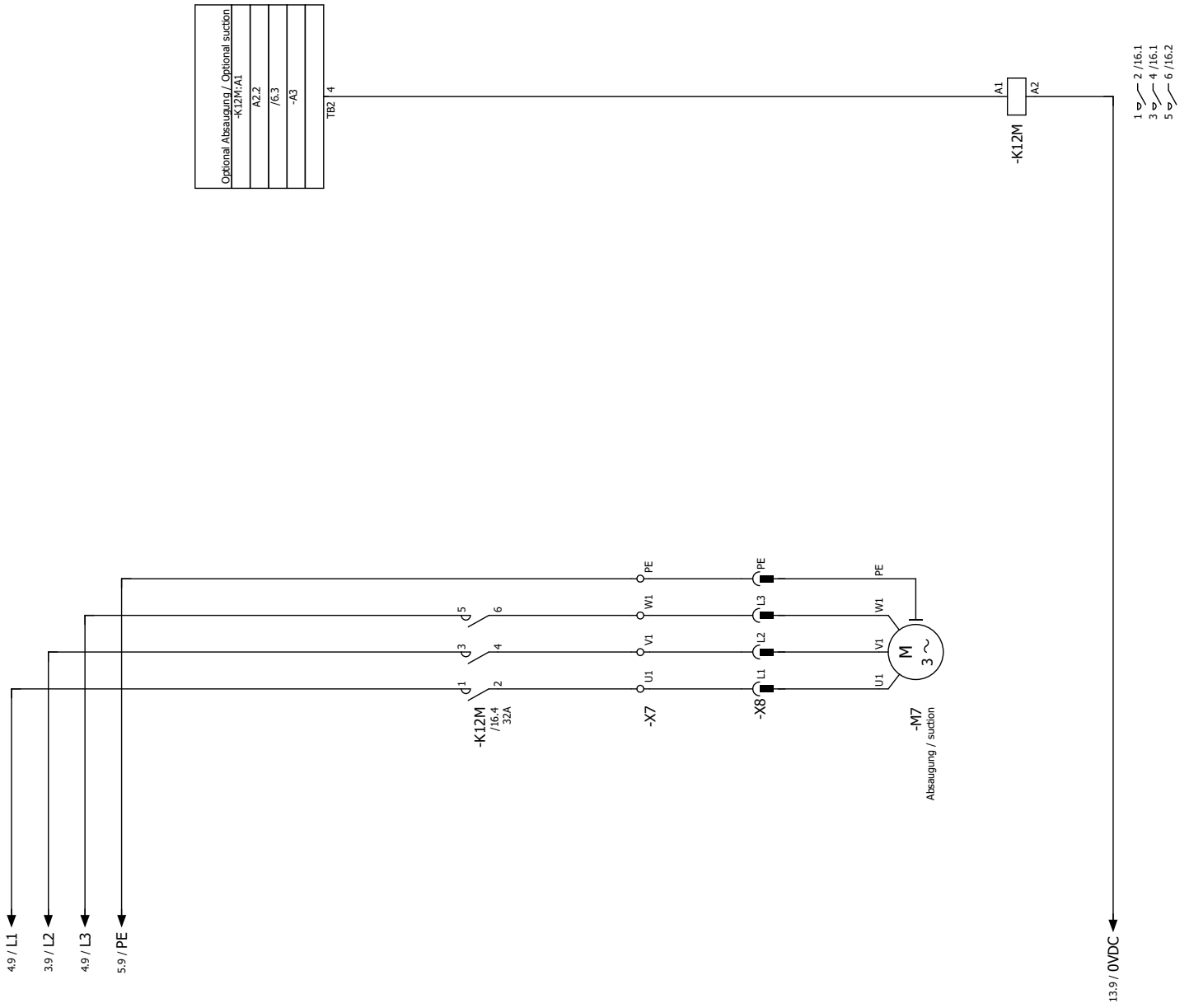




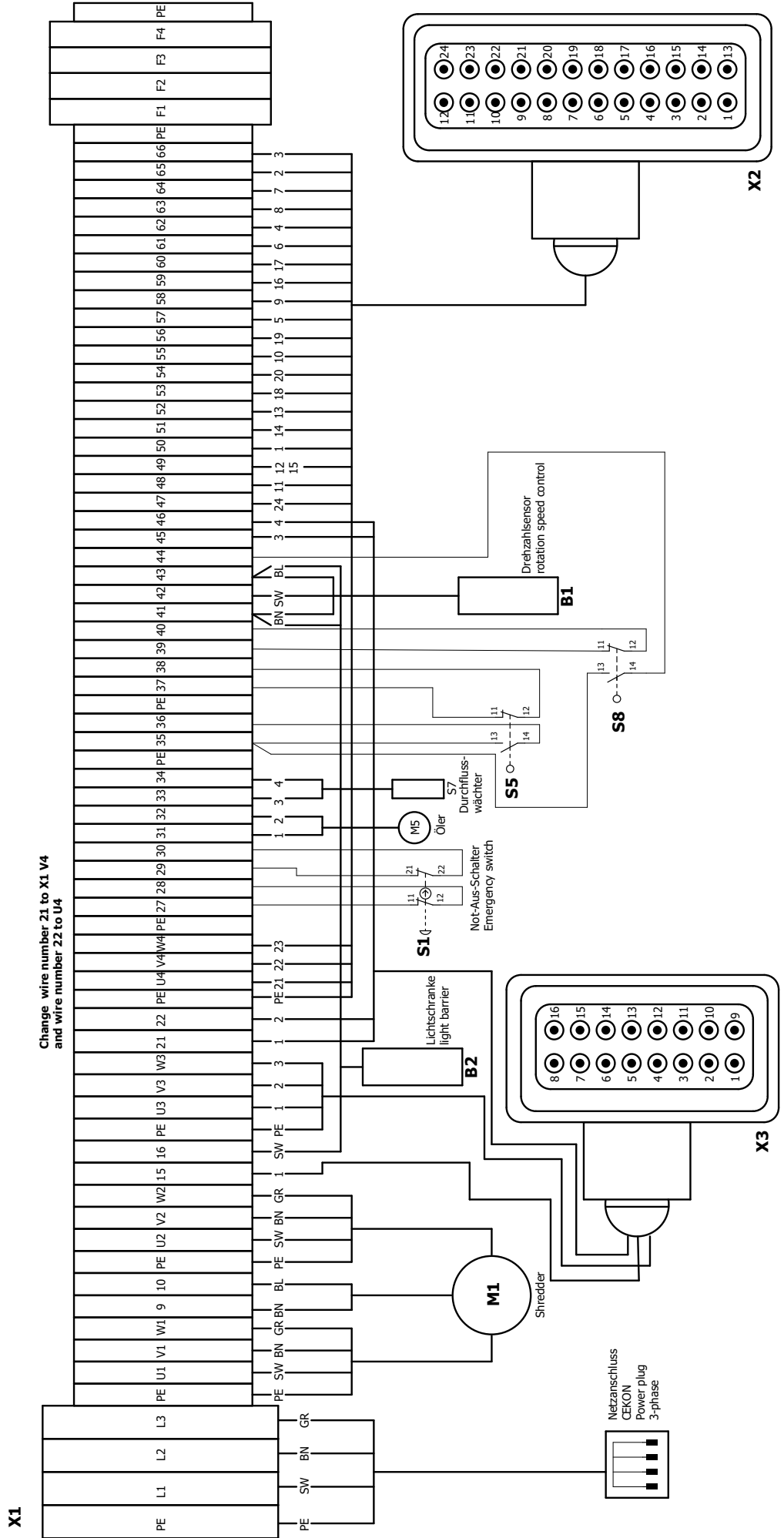


**SB-No.**  
**991.0428.4-a**  
 Seite / page 13

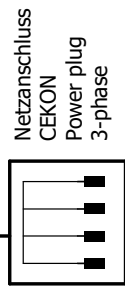
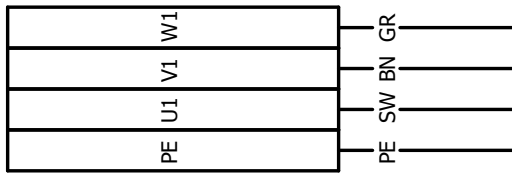




**SB-No.**  
**991.0428.4-a**  
Seite / page 15

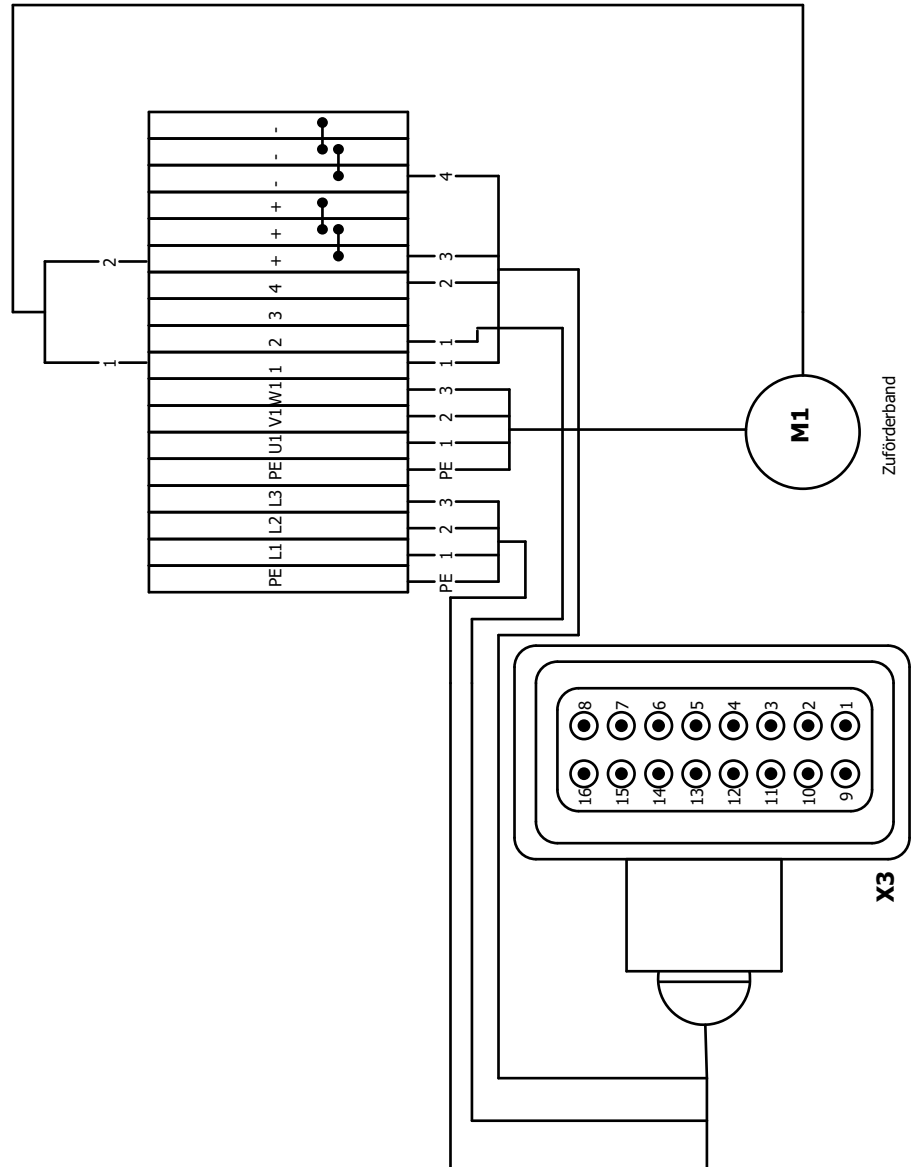


**X7**



**X8**

**SB-No.**  
**991.0428.4-a**  
Seite / page 17







## 12 Certificate of Conformity

### Konformitätserklärung Declaration of Conformity Déclaration de conformité Declaración de conformidad



Bezeichnung der Maschine:	<b>Datenshredder mit Ballenpresse Typ 475 und Zuförderband</b>
Type of machine:	Document Shredder with baler type 475 and feeding conveyor
Description de la machine:	Destructeur de Document avec presse type 475 avec bande d'alimentation
Descripción de la máquina:	Destructor de Documentos con compactador tipo 475 con cinta transportadora
Modell / Model / Modèle / Modelo:	<b>intimus 16.99 SmartShred</b>
Typ / Type / Type / Tipo:	<b>656-10C + 656-6C</b>
Artikel-Nr. / Item number / numéro d'article / número de la pieza:	656501-656599
Serien-Nr. / serial number / numéro de série / número de serie:	siehe Typenschild / see name plate voir plaque d'identification / mirar la placa de identificación
Baujahr / year of manufacture / année de production / año de producción:	siehe Typenschild / see name plate voir plaque d'identification / mirar la placa de identificación

Hiermit wird bestätigt, dass vorgenanntes Produkt den Anforderungen der **Maschinen-Richtlinie 2006/42/EG** sowie der **EMV-Richtlinie 2014/30/EG** einschließlich allen bis heute veröffentlichten Änderungen bzw. Nachträgen entspricht. Der oben beschriebene Gegenstand der Erklärung erfüllt die Vorschriften der **Richtlinie 2015/863/EU** des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten. Das vorgenannte Produkt entspricht folgenden harmonisierten bzw. nationalen Normen:

We do hereby certify that the above mentioned product meets the requirements set forth in **EEC-Guidelines 2006/42** and **EMC 2014/30/EEC** including all changes and addendums to date thereto. The object of the declaration described above is in conformity with **Directive 2015/863/EU** of the European Parliament and of the Council of 8 June 2011 on the restriction of use of certain hazardous substances in electrical and electronic equipment. The above mentioned product meets the following harmonized and national standards:

Nous vous confirmons que le produit cité ci-dessus correspond aux **exigences des directives 2006/42/CEE** ainsi qu' à la **directive CEM 2014/30/CEE**, ci-inclus toutes les modifications ainsi que tous les suppléments publiés jusqu'à ce jour. L'objet de la déclaration décrit ci-dessus est conforme à la **directive 2015/863/UE** du Parlement européen et du Conseil du 8 Juin 2011 sur la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques. Le produit mentionné correspond aux normes citées ci-après:

Confirmamos que los productos arriba citados cumplen las exigencias de las **directivas 2006/42/CEE** y **CEM 2014/30/CEE**, incluidas todas las modificaciones publicadas hasta la fecha. El objeto de la declaración descrita anteriormente es conforme a la **Directiva 2015/863/UE** del Parlamento Europeo y del Consejo, de 8 de Junio del 2011, sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos. Los productos citados corresponden con las siguientes normas:

**Harmonisierte Normen / harmonized standards  
normes harmonisées / normas armonizadas**

EN ISO 12100:2011-03  
EN ISO 13857:2020-04  
EN ISO 13854:2020-01  
EN ISO 14119:2014-03  
EN 4413:2011-04  
EN 60204-1:2019-06  
EN 61000-4-2:2009  
EN 61000-4-5:2019-03

**Nationale Normen / national standards  
normes national / normas nacional**

---

CE-Bevollmächtigter / authorized person of CE / personne autorisée de la CE / persona autorizada por CE:  
**intimus International GmbH; Bergheimer Straße 6-16; D-88672 Markdorf / Germany**



Postfach / p.o.box 1420  
D-88672 Markdorf / Germany

2022/03  
*Iris Thum-Niegel*

**Iris Thum-Niegel**  
Geschäftsführerin  
Managing director  
Directeur général  
Director General

## International Network

<b>Germany</b>	intimus International GmbH Bergheimer Straße 6-16 88677 Markdorf / Bodensee	+49 (0) 7544 60-0 sales.de@intimus.com
<b>North America</b>	intimus North America 251 Wedcore Avenue Wabash, IN 46992	(800) 775 2122 sales.us@intimus.com
<b>France</b>	intimus International GmbH Bergheimer Straße 6-16 88677 Markdorf / Bodensee	+33 (6) 14 59 19 41 +33 (6) 12 44 59 05 sales.de@intimus.com
<b>P.R. China</b>	intimus International Trading (Beijing) Limited Room 260D, C Building Guojigang No.E-2 Dong San Huan Bei Road, Chaoyang District, Beijing 100027, PRC	+86 (0) 10 84 47 10 71 / 72 / 73 info@intimus.com.cn
<b>Austria</b>	intimus International Austria Ges. m. b. H. Leonard-Bernstein-Straße 10 1220 Wien	+ 43 (0)1 2583621 0 contact.at@intimus.com
<b>Belgium</b>	intimus International BeLux Generaal de Wittelaan 17B, 2800 Mechelen - Belgium	+32 (0)15 - 29 46 30 info.belux@intimus.com
<b>Netherlands</b>	intimus International Netherlands, B.V. Essebaan 13a 2908 LC Capelle aan den IJssel	+31 (0)10 - 242 11 00 info.nl@intimus.com
<b>Luxemburg</b>	intimus International BeLux Generaal de Wittelaan 17B, 2800 Mechelen - Belgium	+32 (0)15 - 29 46 30 info.belux@intimus.com
<b>Portugal</b>	intimus International Portugal IIG Mailing and Information Security Portugal Sociedade Unipessoal LDA. Rua Alfredo Lopes Villaverde, 15-B, Escritorio 4, Paço de Arcos e Caixas 2770-009 Lisboa	+351 214 415 153 pt@intimus.com
<b>Spain</b>	intimus International Ibérica, S.A. Ctra. Hospitalet, 147-149 City Park – Edif. Bruselas 08940 – Cornellà del Llobregat (Barcelona-Spain)	+34 93 480 33 10 info.es@intimus.com
<b>Other Countries</b>	intimus International GmbH Bergheimer Straße 6-16 88677 Markdorf / Bodensee	+49 (0) 7544 60-0 sales.de@intimus.com

