

# MANUAL

## Automatic Boot Wash



**CAT 74-301F**

Revision 1

1800 669 006

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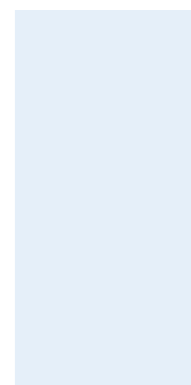
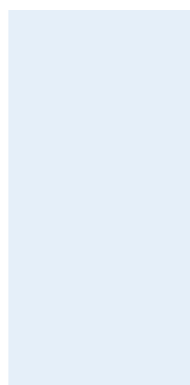
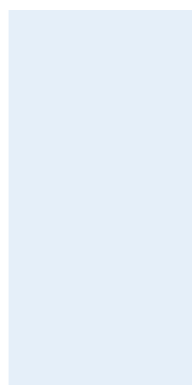
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## 1. INTRODUCTION

### 1.1 BEFORE USE

Before installing and operating, the operator must carefully read this Manual. The contents of this manual must be read by all operating staff before use, and must have adequate knowledge and apply the basic principles of general safety in this manual. Please ensure that you follow the according safety precautions closely as it is very important that the utmost care is taken when using this machine. The Automatic Boot Wash, is designed for mechanical cleaning of footwear (soles), particularly in food factories processing plants and meat.

PLEASE COMPLY WITH

- DO NOT use the machine unless you have read and completely understood this manual.
- DO NOT use the machine unless all the guards and safety devices are fixed firmly into place.
- Disconnect the power source before maintenance, cleaning or adjusting of the machine and once you are finished with the machine.
- Report all faults immediately

### 1.2 TECHNICAL DATA

OVERALL DIMENSIONS:

|                                |                            |
|--------------------------------|----------------------------|
| Length                         | 1470mm (+ step 285mm)      |
| Width                          | 890mm (with basket 1065mm) |
| Height                         | 1480mm                     |
| Power Supply                   | 400 V                      |
| Weight                         | 150 KG                     |
| Motor Power                    | 2 x 0,55 KW                |
| Diameter of Water Supply       | ¾"                         |
| Diameter of Discharge to Sewer | 50mm to Floor              |
| Water Usage                    | 3.41/min                   |

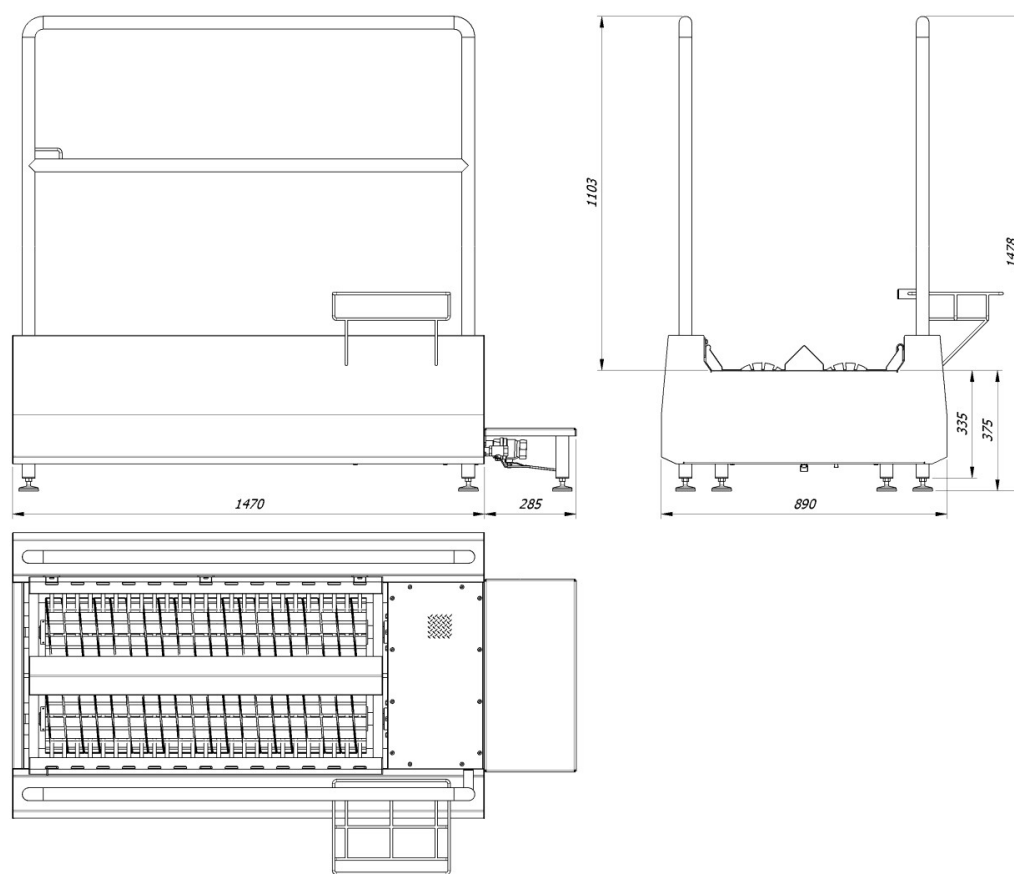
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## 1.3 CONSTRUCTION

The main part of the Boot Wash is made of stainless steel, the body is supported on four adjustable feet.

2 horizontal brushes made of nylon, cleaning the soles of the shoes, the brushes are driven by motors. Detergent control is made of commercial fasteners, connected by a flexible syphon hose, its basic elements are: water supply, solenoid valve, Detergent syphon, spray pipe. Water is supplied to the brushes by spray pipe.

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## 2. INSTALLATION

### 2.1 Plumping

To be done by a competent Plumber.

Install the Boot Wash close to a drain - Flush to the floor. Insure that the Boot Wash is connected to the following:

- Installation of water: use a hose connection with a diameter of  $\frac{3}{4}$  "
- Drain to the floor-open flow. (If connecting direct to sewage, Ensure a P Trap and non Return Air Gap is installed.)

### 2.2 Electrical

To be done by a competent Election.

- An electrical outlet with 400V - PLUG POWER LINE PROTECTION circuit breaker

Electrical connection should ensure proper direction of rotation for the brushes – towards the right.

## 3. OPERATION

Auto activation on entry with inferred sensor. The sensor will activate, starting the rotation of the Brushes, cleaning the soles of the shoes. The brushes will stop after the pre-set time has ended.

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## 4. MAINTENANCE AND CLEANING

### 4.1 MAINTENANCE

Repairs and maintenance inspections must be performed only by a person trained and authorized. Carry out an inspection of the machine every 1000 hours. Disconnect the machine from power before inspecting.

Inspection should include:

- Evaluation and possible lubrication of motor bearings
- Check the oil level in the gear motor.
- Verify the operation of the solenoid valve (if necessary, disassemble the valve head and remove accumulated sediment)
- In the case of hard water, do a valve survey that is carried out every 500 hours

Replace the brushes worn parts as needed. In order to prevent the formation of micro-organisms and to ensure solid, reproducible results, it is recommended to regularly clean daily. Avoid any dry residue on the surface of the device.

### 4.2 CLEANING

To achieve a high standard of hygiene and to prevent damage to property, it is recommended to comply with the order of cleaning. Any calcium and magnesium must be removed as soon as possible.

#### **Note!**

Thoroughly rinse after cleaning, otherwise the detergent residues can cause corrosion. During cleaning, water vapour **MUST NOT ENTER** the sensitive parts of the machine (e.g. sensors, and buttons).

The cleaning process and chemicals:

1. First Preparation of Cleaning, turn machine off and unplug. Close the water shut-off valve.
2. Manually clean and disinfect any alkaline - Mild solution with water.
3. Immediately rinse thoroughly.
4. Check the result and, if necessary, clean again.
5. Maintenance - to protect metal surfaces from corrosion, use a metal surface protection spray to prevent any corrosion.
6. **Inspect all parts of the device at regular intervals for damage, cleaning, waterproofing, and features.**

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## 5. SAFETY REGULATIONS

Follow the general rules for Health and Safety at your workplace. In particular, the principle that the Boot Wash repair may only be authorized by a trained person.

Follow all safety regulations according to industry in use.

## 6. LIST OF SPARE PARTS

Gearmotor VF 49/P1 14 P 71 B14 B3

Motor 0.55 KW 4P IP55 P71 B14

Inductive proximity switch 3-wire. PNP 1ZZ - PR18S-BC40DPO-E2

Industrial relay AC / DC 230V/220V

1ZZ contactor 9A 24V DC - DILEM 10-24VDC G

Breaker BY-2, 4

Emergency stop button 1ZZ 1 ZR - ST22-B01

30W AC single-phase 1.5 A 230V/24V - DR-30-24

230VAC solenoid

Timer PCA512

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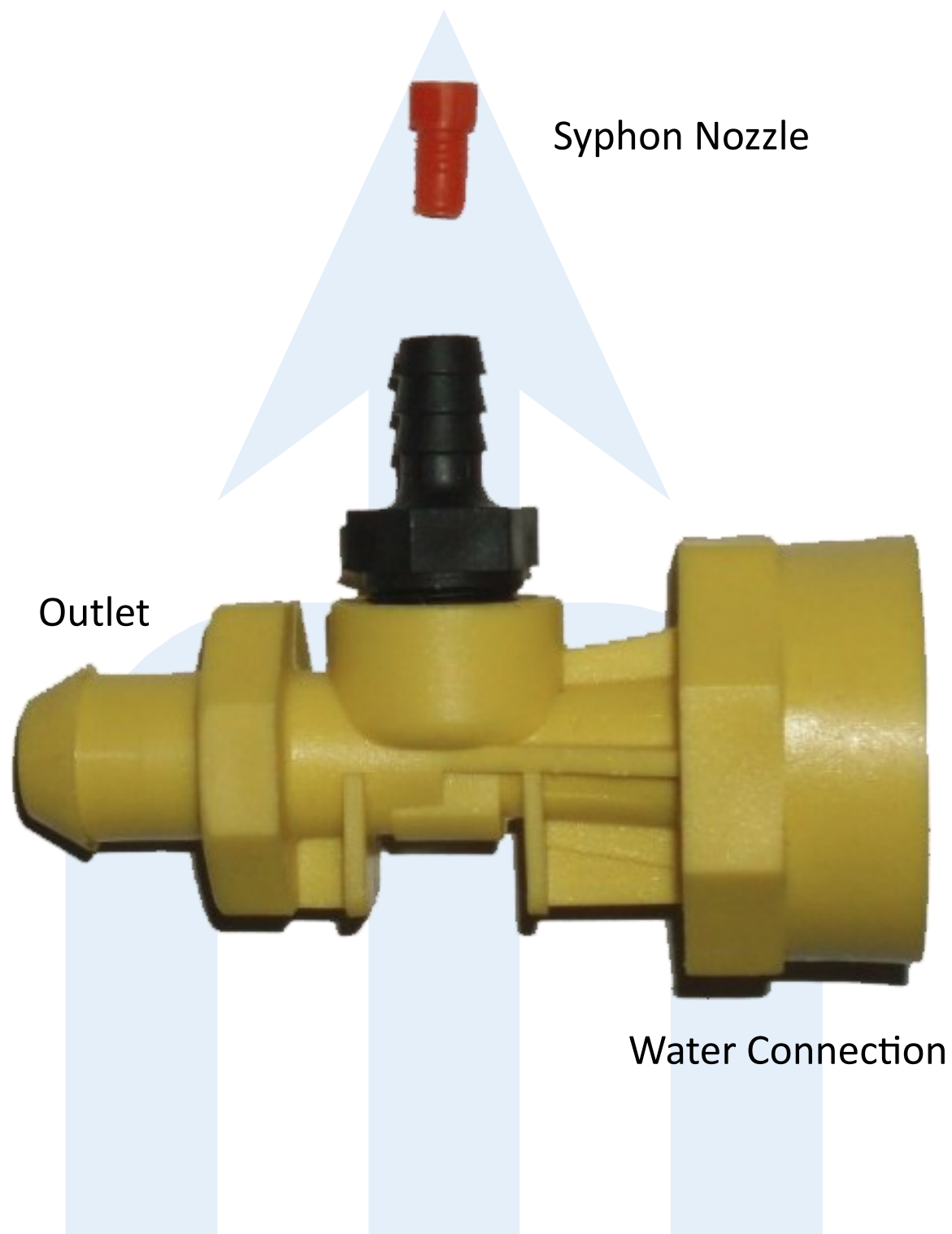
## 7. PARAMETERS – FLUIDS CONCENTRATION

For each Boot Wash there is included nozzle kit for regulating the concentration of the cleaning fluid. The table below shows the ratio of water to the nozzle when mounted soap an appropriate colour for the user.

| Nozzle colour | Ratio<br>Water- Soap |
|---------------|----------------------|
| orange        | 321 : 1              |
| turquoise     | 256 : 1              |
| pink          | 170 : 1              |
| red           | 85 : 1               |
| white         | 73 : 1               |
| green         | 64 : 1               |
| blue          | 51 : 1               |
| black         | 26 : 1               |
| grey          | 11 : 1               |



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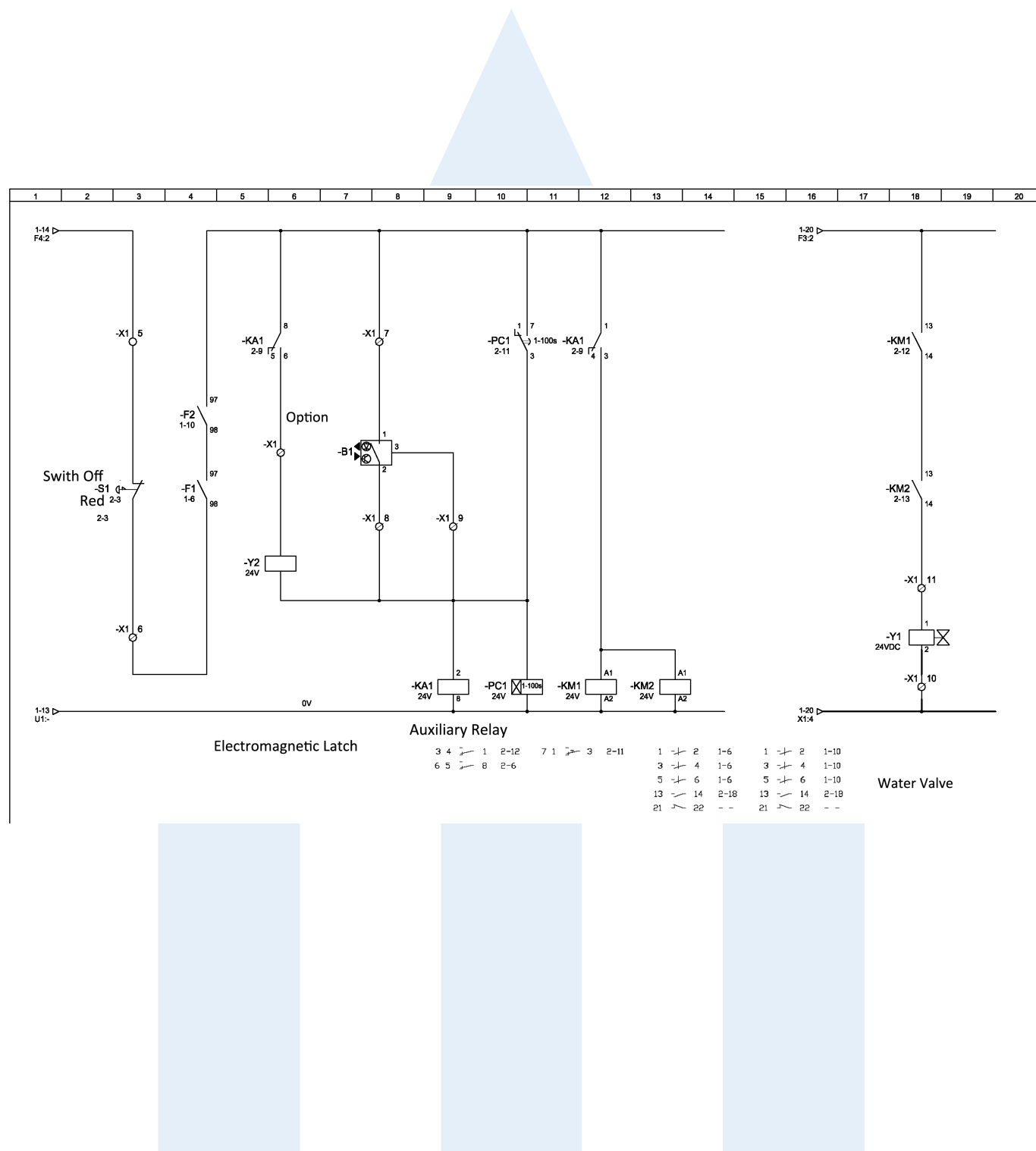
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## 8. ELECTRIC DIAGRAM



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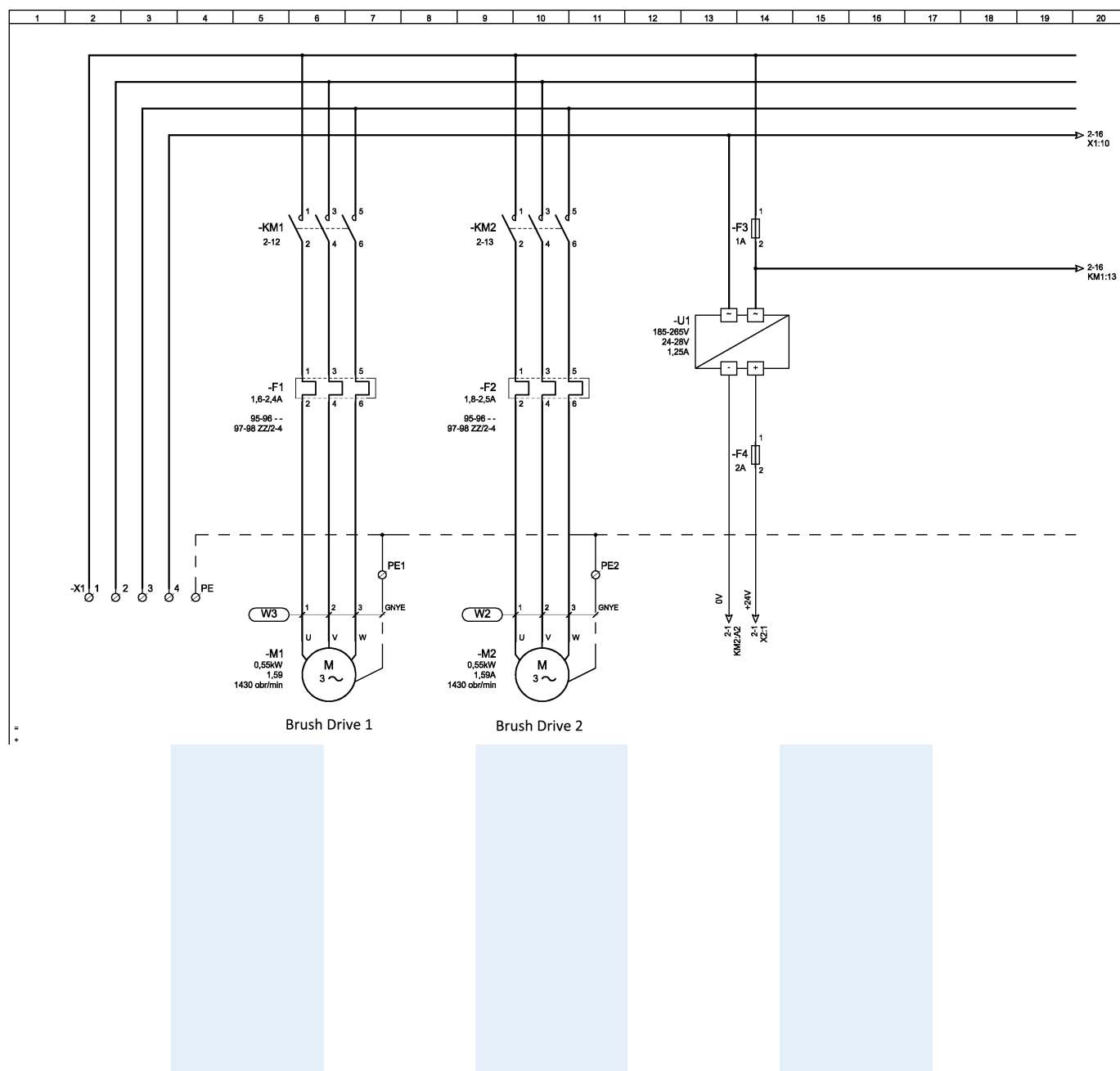
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## 8.1 ELECTRIC DIAGRAM



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