Easy Setup of Laboratory Rotomolding Machine

Description

Lab Rotomolding Machine

Easy Setup

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1- Telescopic door lock
2- IR thermometer window
3- Cabin light key

4- Telescopic door
5- Mold
6- Temperature controller
7- Digital timer for alarm
8- Safety cover
9- Two frequency inverter for speed control
10- Roto mechanism carrier
11- Safety door switch
12- Four pcs of cooling fan
13- Keys for cooling fans
14- Auto-Manual mode selection
15- Timer start key
16- Roto axis 1 start
17- Roto axis 2 start
18- RS485-USB connection converter

How to start manually

1- Place the machine in place, connect earth connection to the body of machine

2- Connect power supply to 220VAC-50Hz

3- Open safety door (8)

4- Move rotomechanism carrier to the far left (10)

5- Install the mold on mold holder (5)

6- Fill the mold with material while drain valve on mold is open

7- Close drain vale on the mold

8- Close filling valve of the mold

9- Open telescopic door (4)

10- Push door lock(1) when door is completely opened

11- Move carrier(10) to right in such a way that mold being completely inside hot cabin

12- Pull the door lock(1) while keeping the door(4) in hand and close the telescopic door

13- Close the safety cover to far right so that it touches the safety switch(11)

14- Put the key(14) on manual mode

15- Set the requested temperature on digital temperature controller (6) [How to do this]

16- Set the speed of rotation for two axes on frequency inverter (9)

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17- Turn on two axes rotation using keys 16 & 17

18- Set the requested time on digital timer

19- After alarm starts(time passed) , Move the carrier to the far left while safety door in closed and mold is turning

20- Turn on cooling fans as your requested cooling speed (1 to 4)

21- After cooling time passed, Stop rotation of two axes and you can open the safety door

22- Open the mold and take the sample out

How to start machine using software

1- Firs of all you need to install RS485-USB(18) converter driver in your computer [How to do this]

2- Connect the USB cable to PC and set up port as the above guide

3- Install the software of AHO ROTO [how to do this]

4- Read using software in the next post [Using AHP ROTO software]

Electrical Drawings

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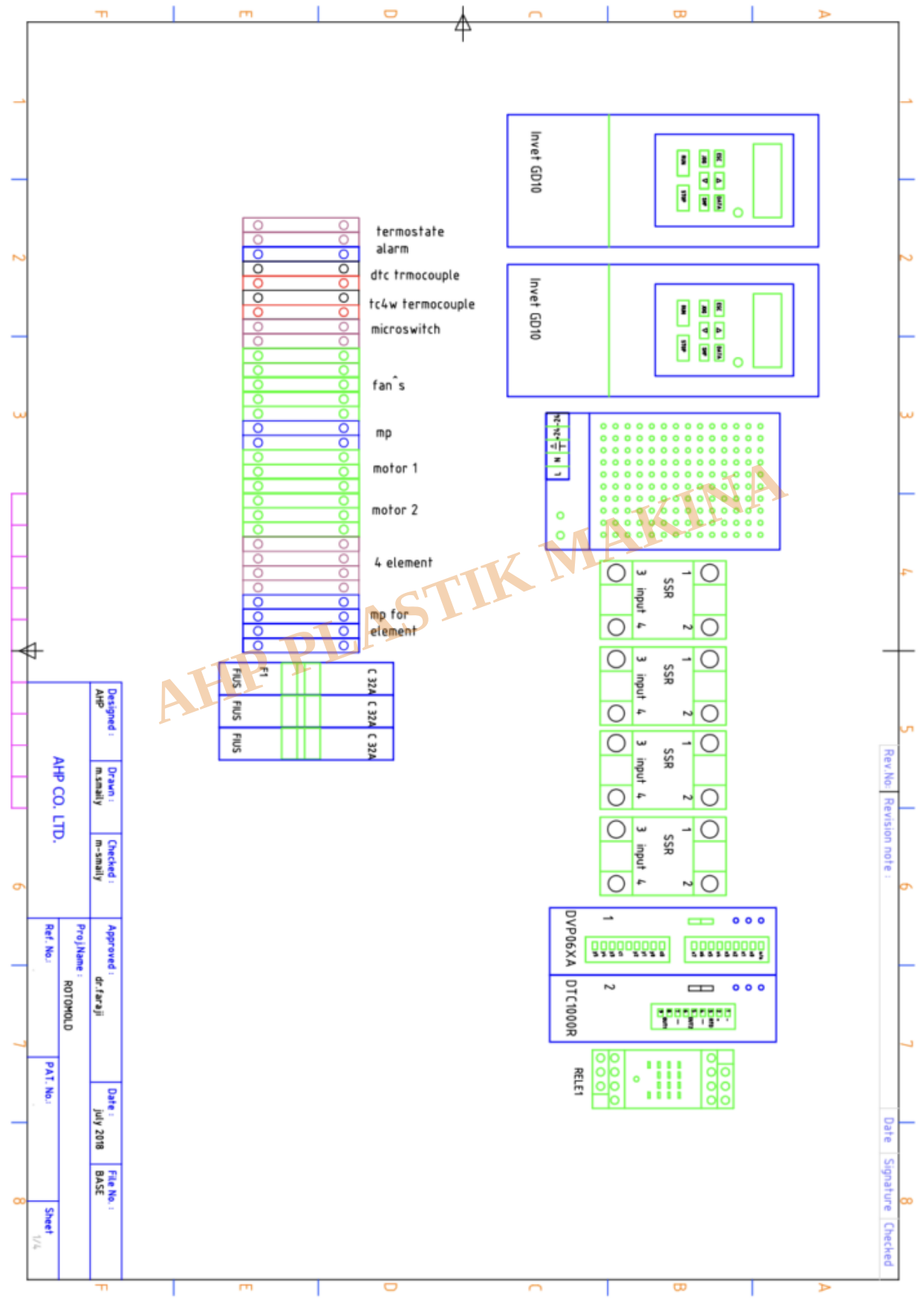

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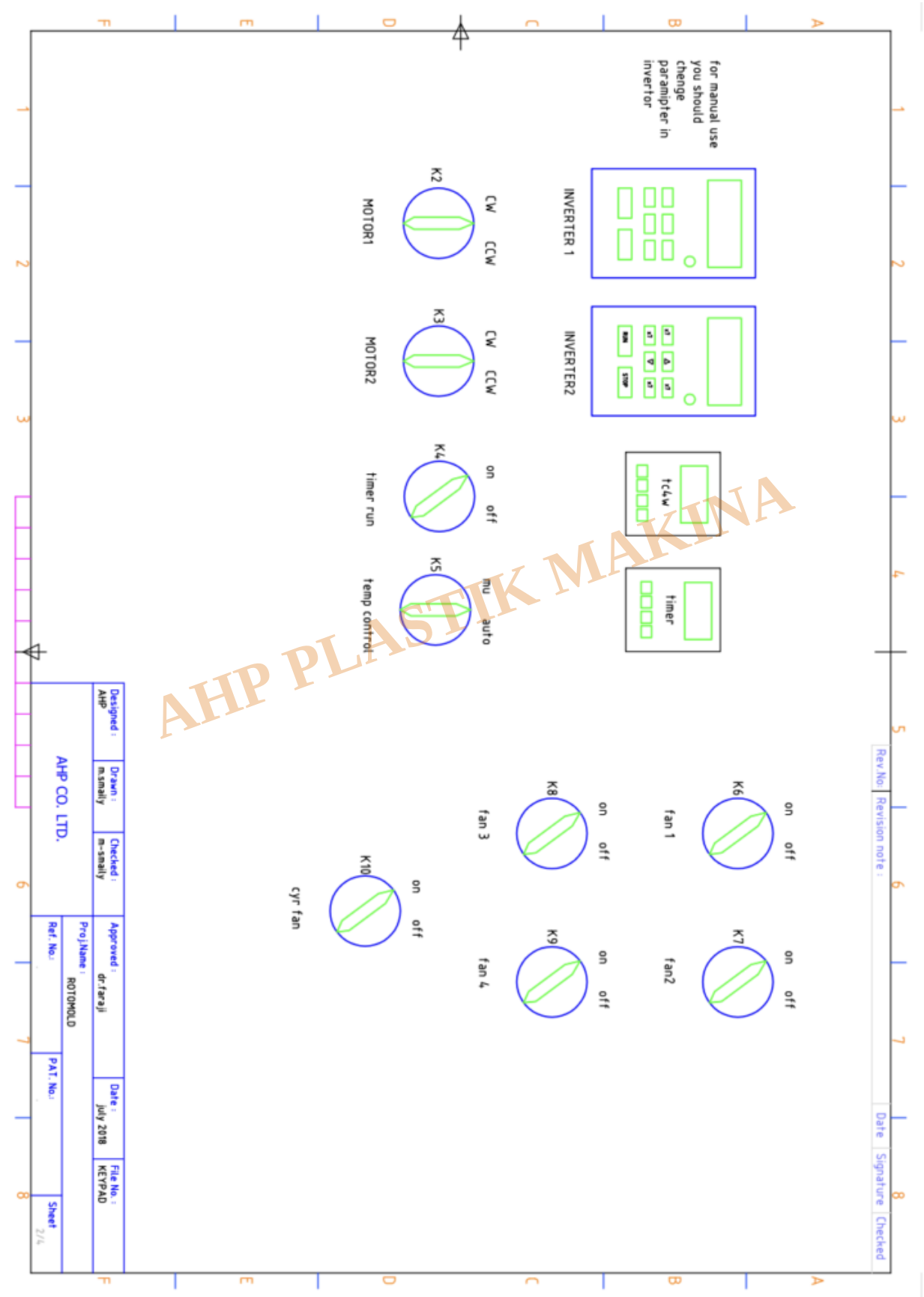

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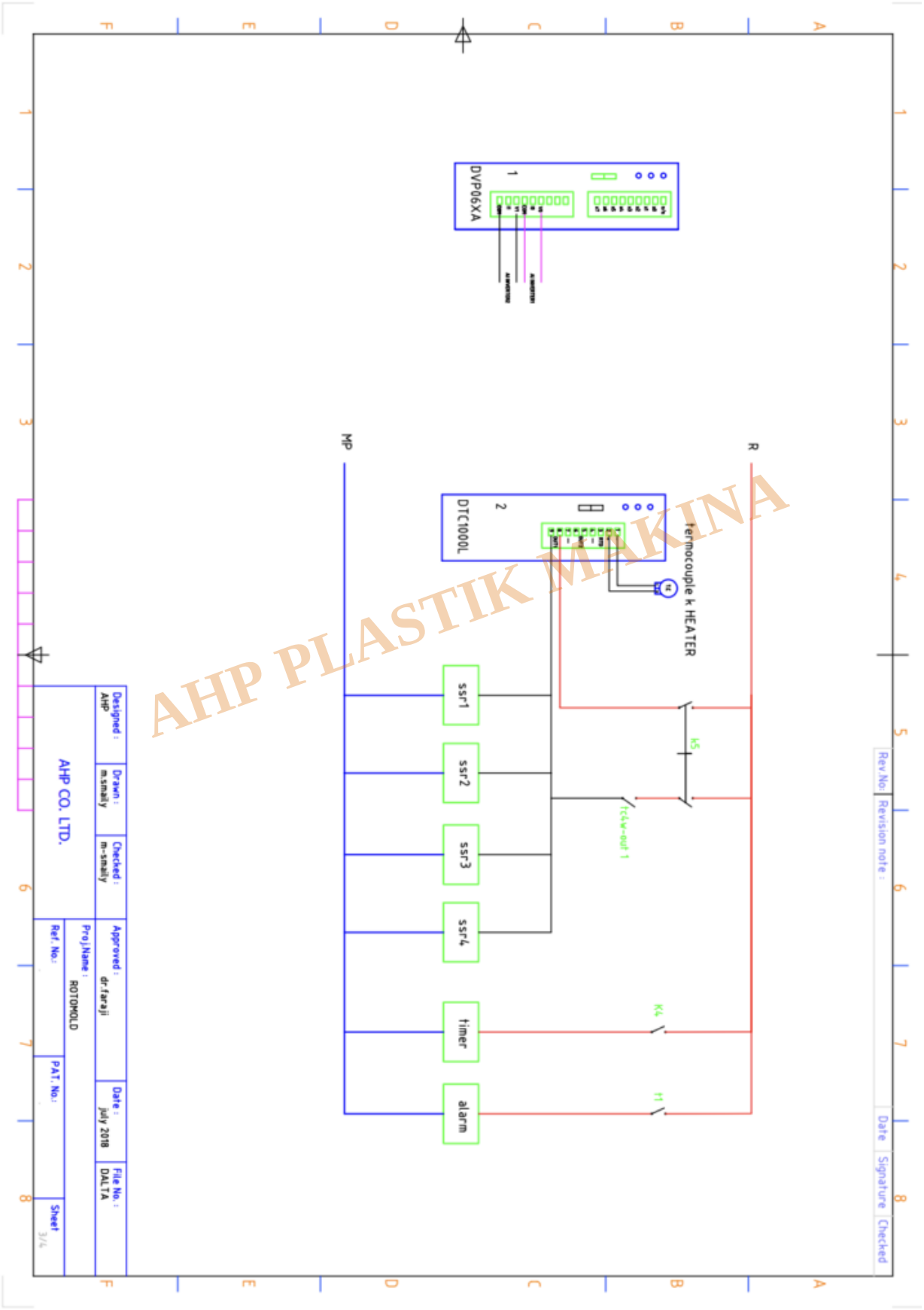

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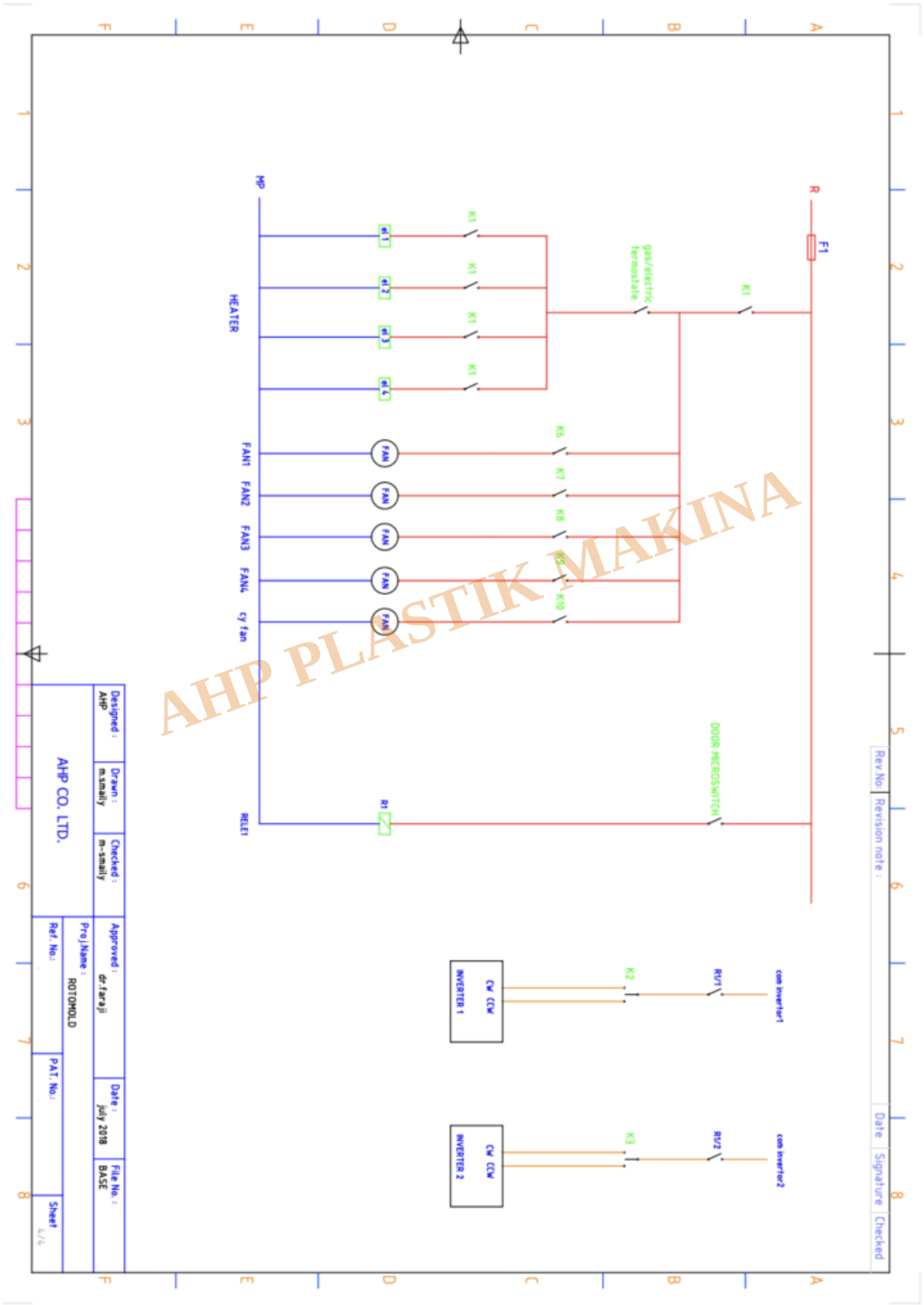
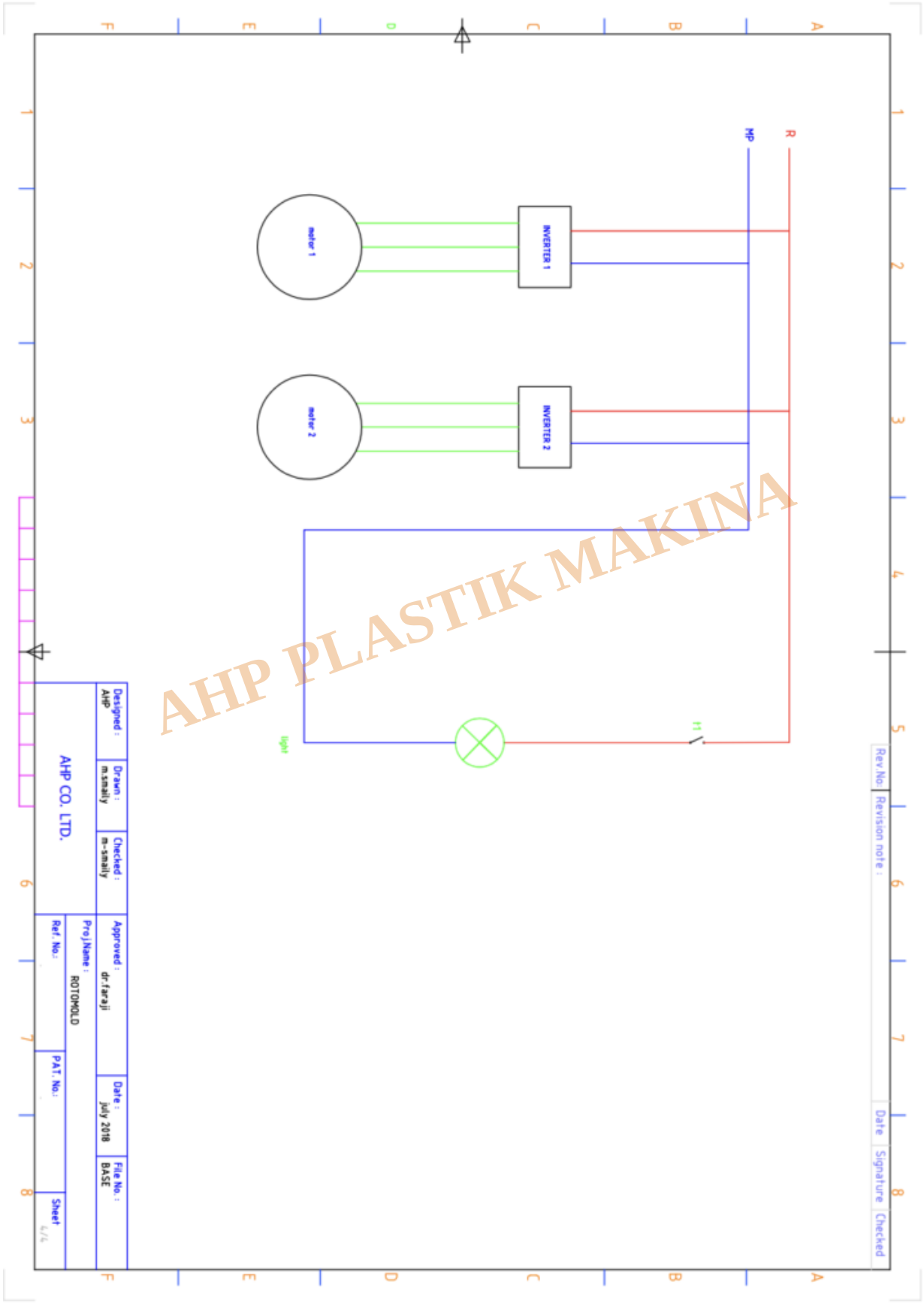

HEATER
FAN1
FAN2
FAN3
FAN4
cy fan
RELE1
DOOR MICROSWITCH
gas/electric termostate
INVERTER 1
INVERTER 2
AHP CO. LTD.
ROTOMOLD
BASE
AHP PLASTIK MAKINA



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Category

1. How to Use

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