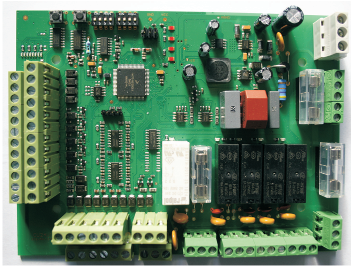
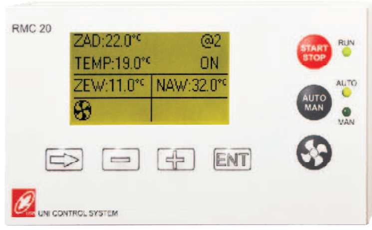
Controller
CU24V1





for AHU

Appplication

The **CU24V1** contoller is dedicated for jinlet-outlet AHU with exchanger or without.The contoller is delivered with a remote panel RMC20 with buit-in graphic display.

Functions

- **Temperature control**
  - Cascade control with min/max limit on supply air
  - Supply air temperature control
  - Water and electric heating control
  - Water cooling and compressor control
  - Preliminary heating function
  - Water heater frost protection
  - High temperature protection of electric heaters
- **Fans control**
  - Inlet and outlet fan control
  - Inverter control
  - Engine alarm
- **Heat recovery control**
  - Exchanger control
  - Exchanger frost protection
  - Exchanger protection by bypass damper or inlet fan speed modulation
- **Real time clock with week shedule**
- **Alarms**
  - Alarms informations on the RMC20 panel
  - Alarm clearing from the panel
- **BMS**
  - BMS facilities by RS485 serial comunication
  - MODBUS Comunication protocol

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Inputs

Type	Nr	Caracteristic
• Resistive:	4	PT1000 type, range -25 ...+70°C
• Digital:	5	Free potencjal contact

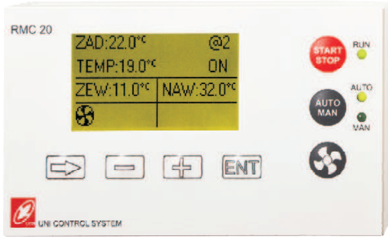
Outputsa

Type	Nr	Caracteristic
• Analog:	4	0-10V / 2mA
• Modulated:	2	21V ± 2VDC / 50mA
• Relay:	4	250VAC, 3A / Resistive load

Comunication

- RS485 serial port: 2 ports
- Odległość: up to 1200m
- Comunication protocol: MODBUS

Remote panel
RMC20



Data

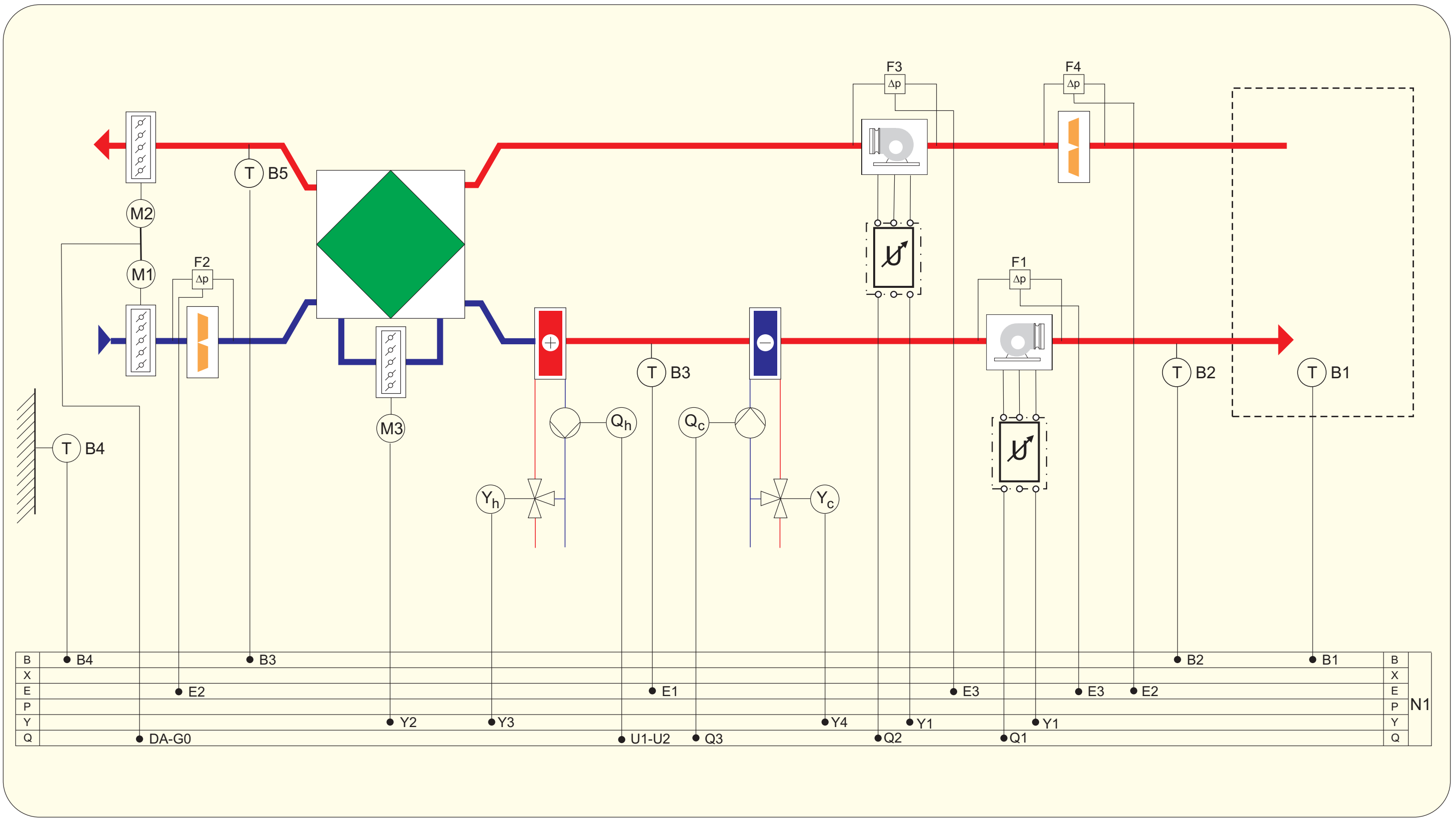
- Power supply: 24 VAC / DC
- Wiring: Shielded wire 5 x 0.5 mm2
- Dimensions: 120.6 x 69 x 25mm (Wide. x Height. x Deep.)

Comunication

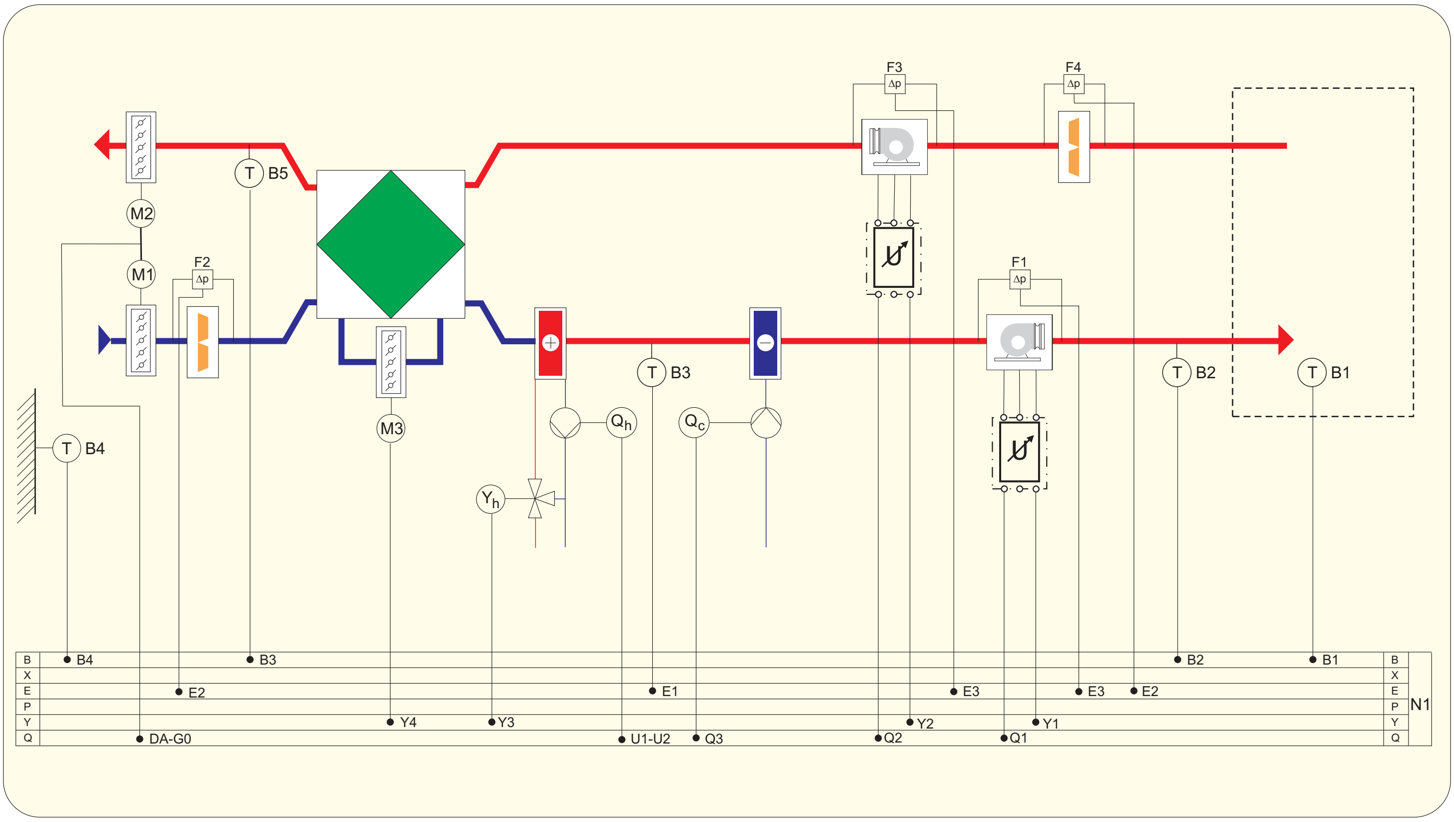
- RS485 serial port
- Lenght: up to 1200m
- Comunication protocol: MODBUS

Examples of aplications - 3-phase fans controlled by inverters

Inlet-Outlet AHU with exchanger , Water heater, Water cooler



Inlet-Outlet AHU with exchanger , Water heater, Cooling compressor



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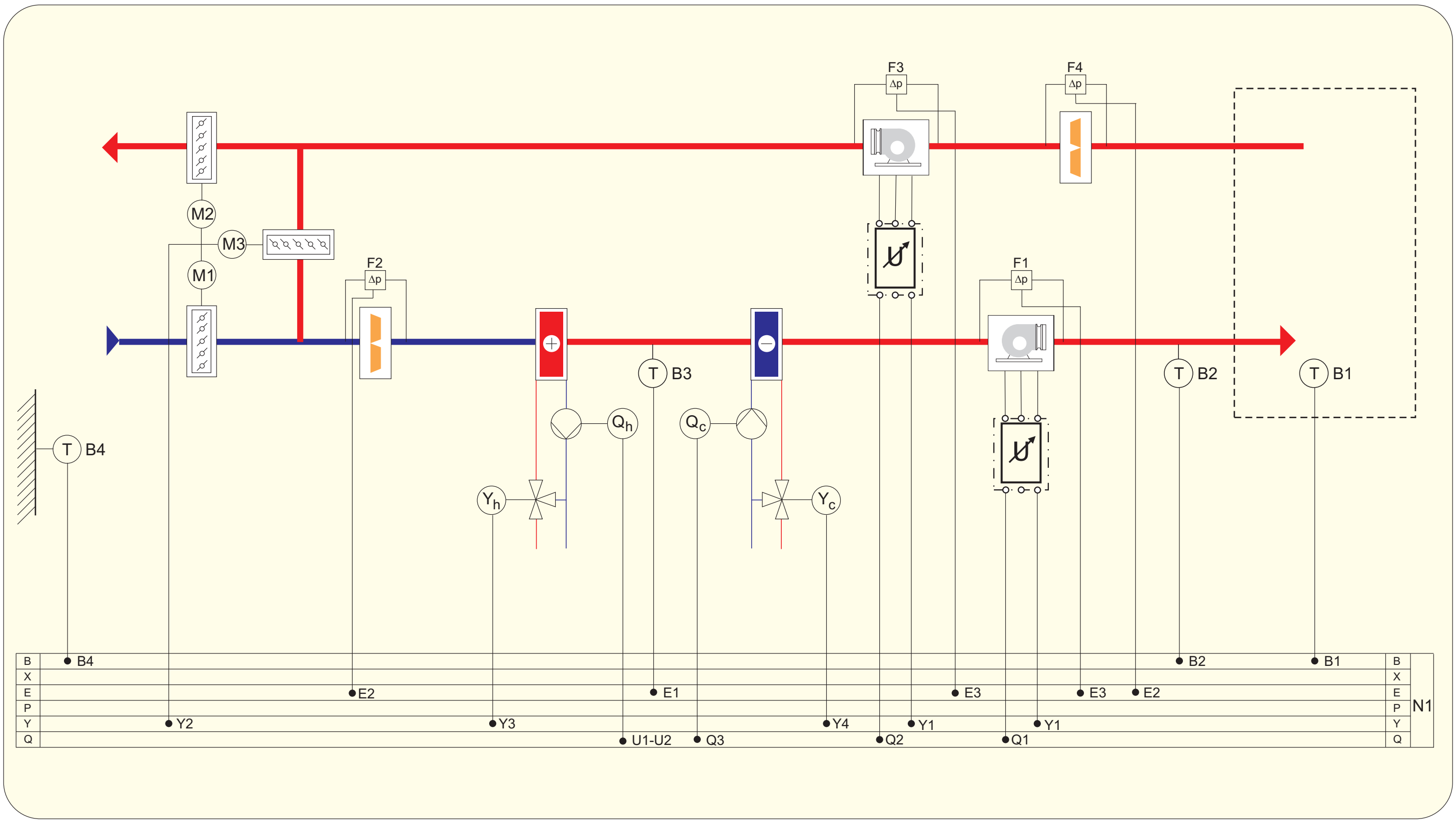
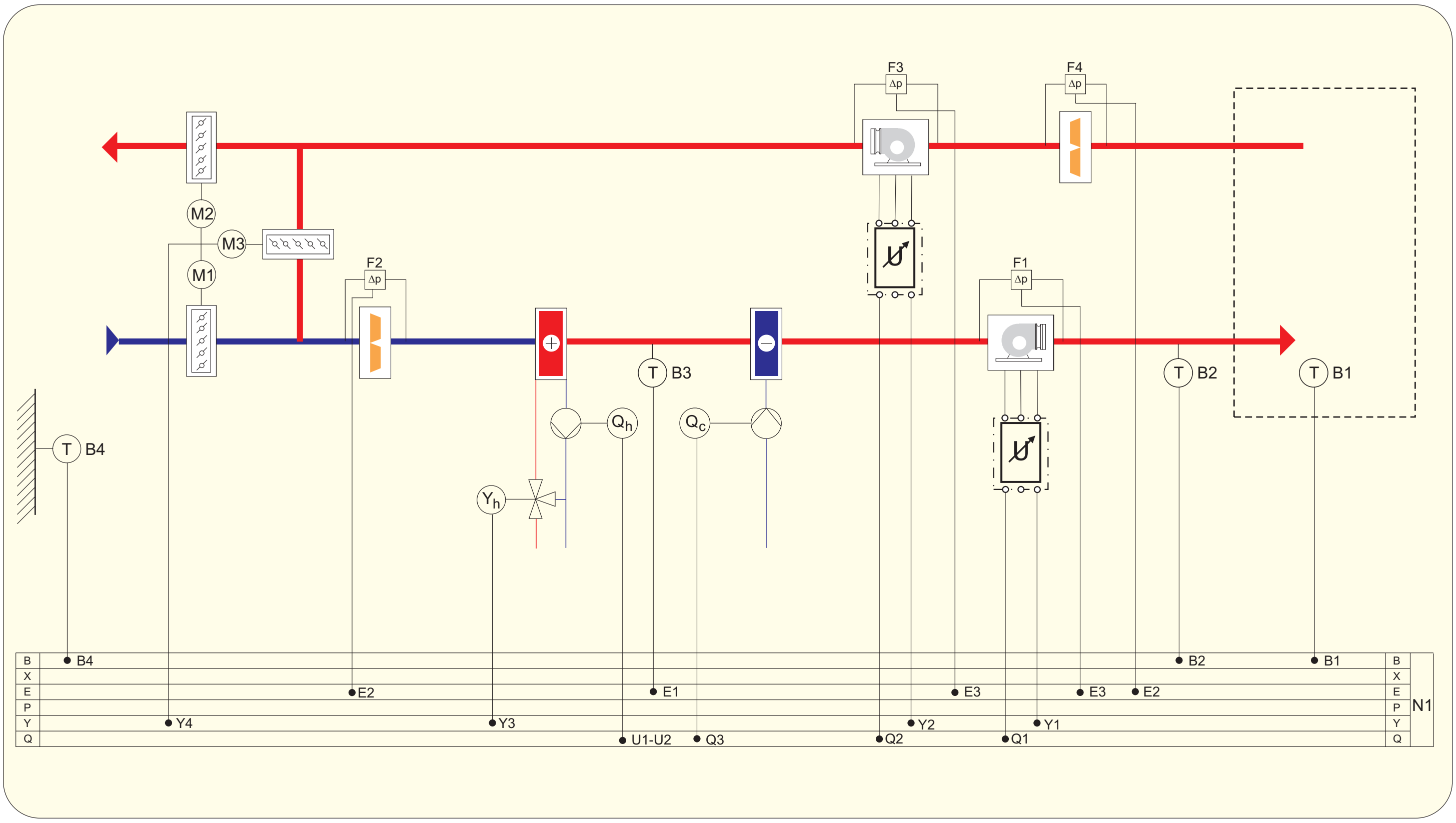
Examples of aplications - 3-phase fans controlled by inverters

Inlet-Outlet AHU with recirculation dampers , Water heater, Water cooler



Inlet-Outlet AHU with recirculation dampers , Water heater, Cooling compressor



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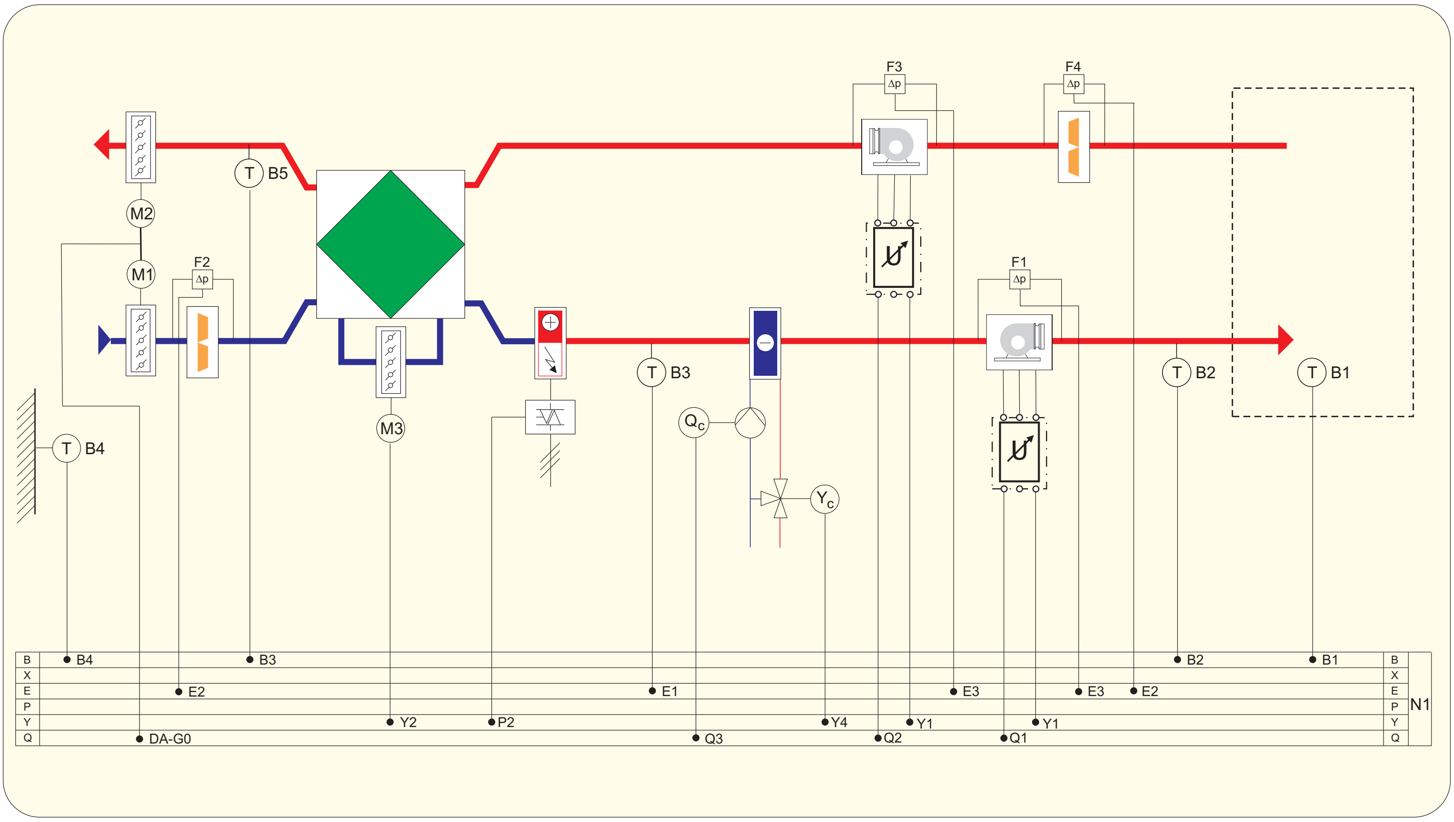
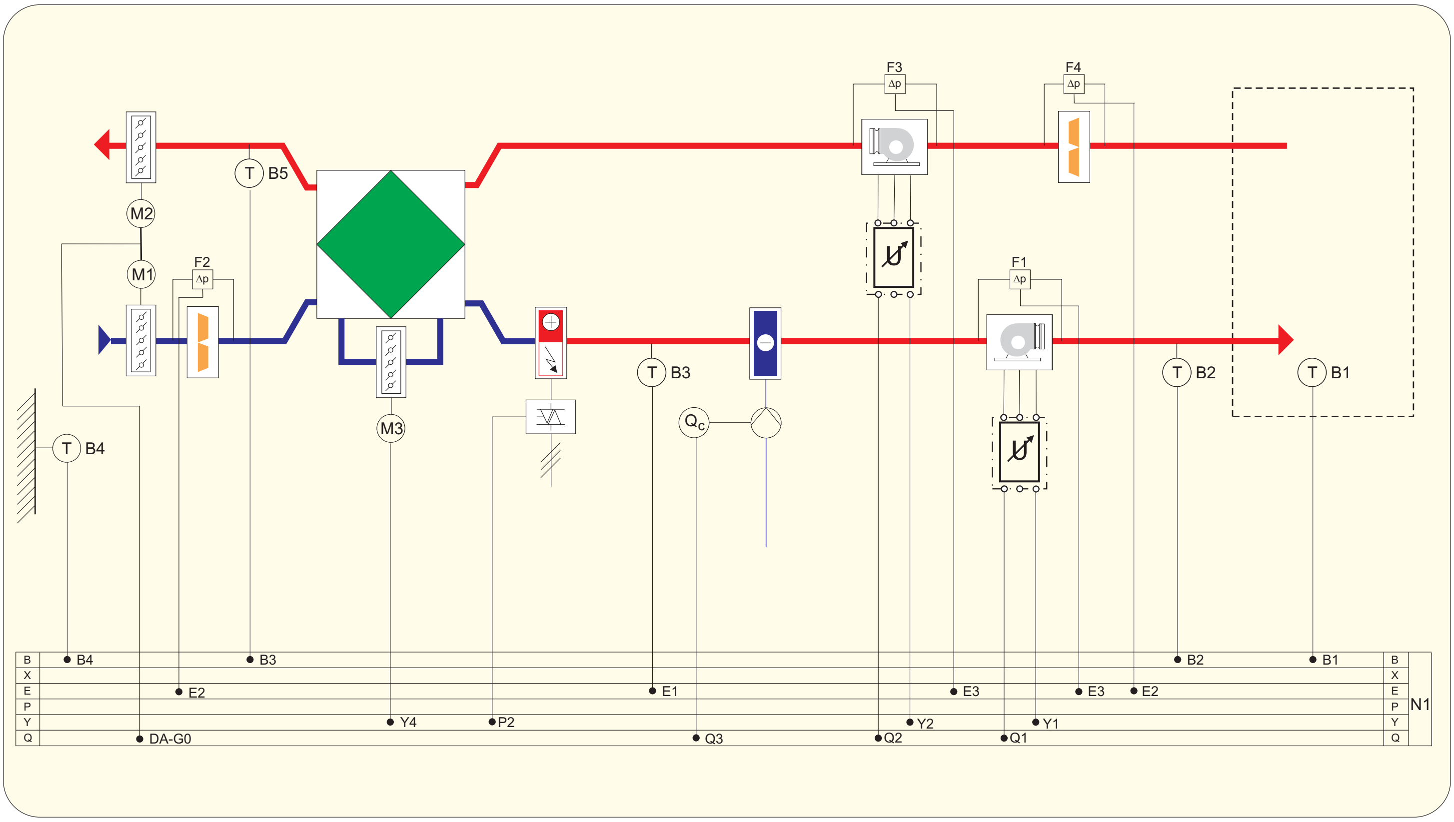


Inlet-Outlet AHU with exchanger , Electric heater, Cooling compressor



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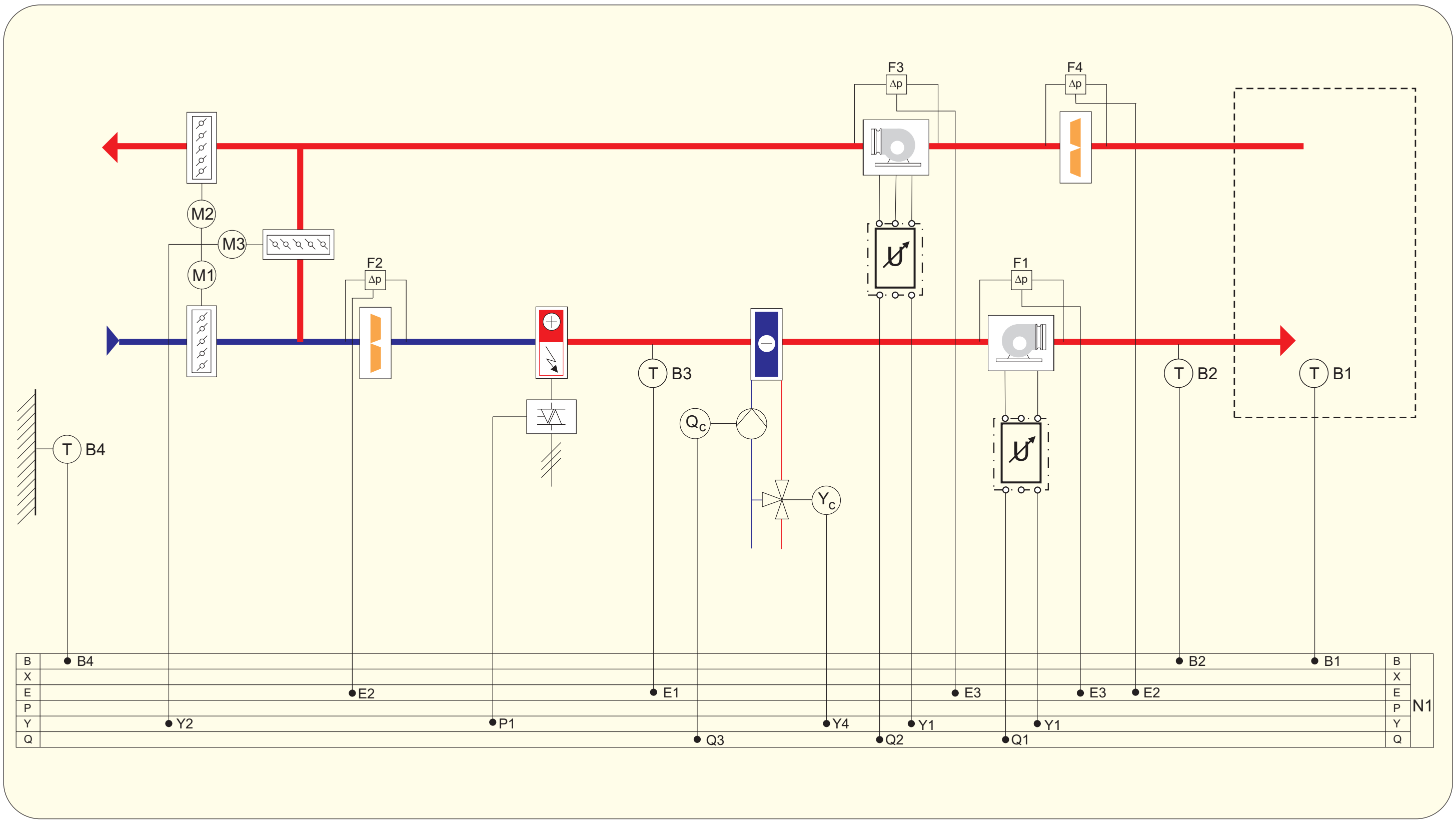
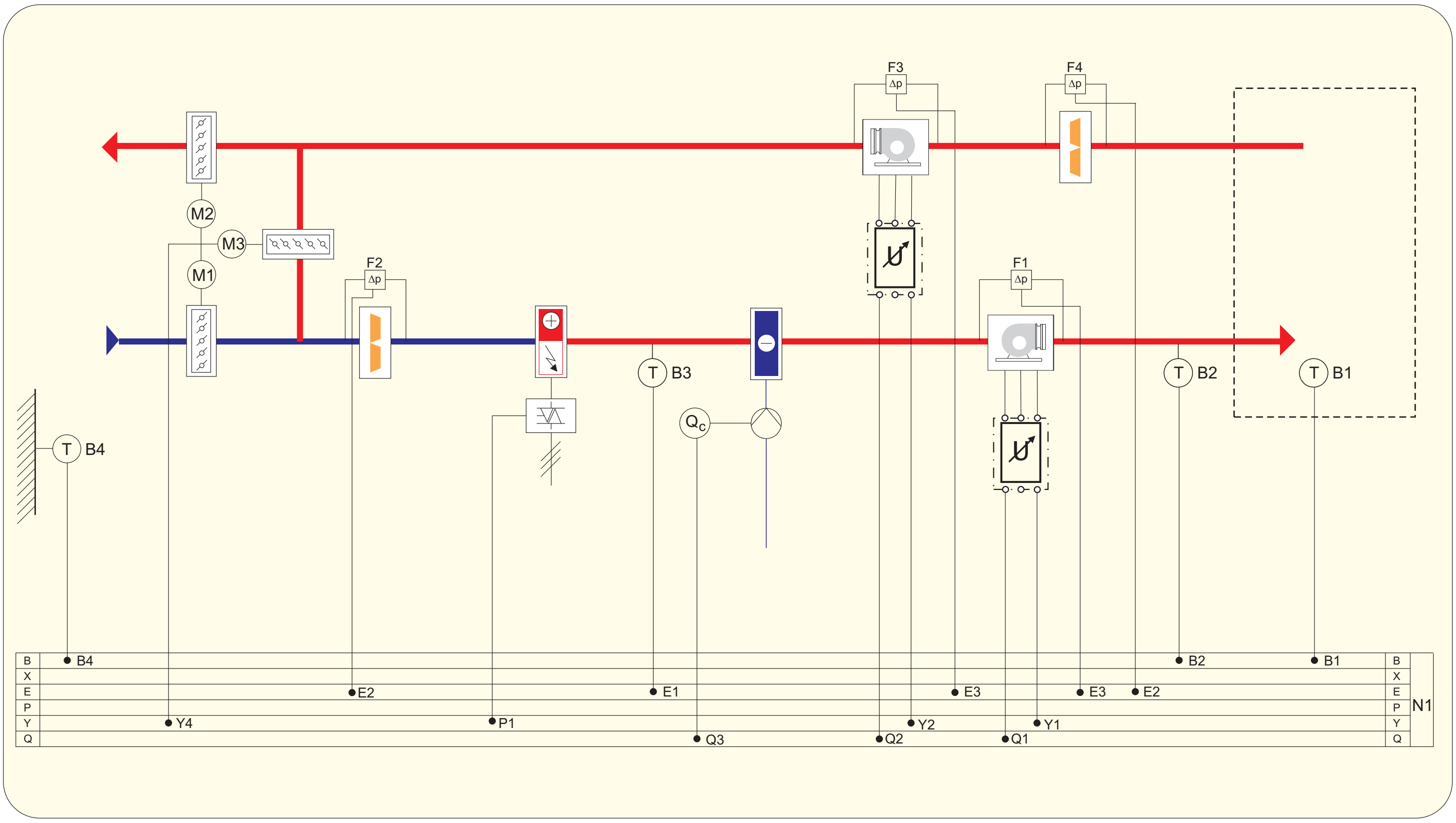
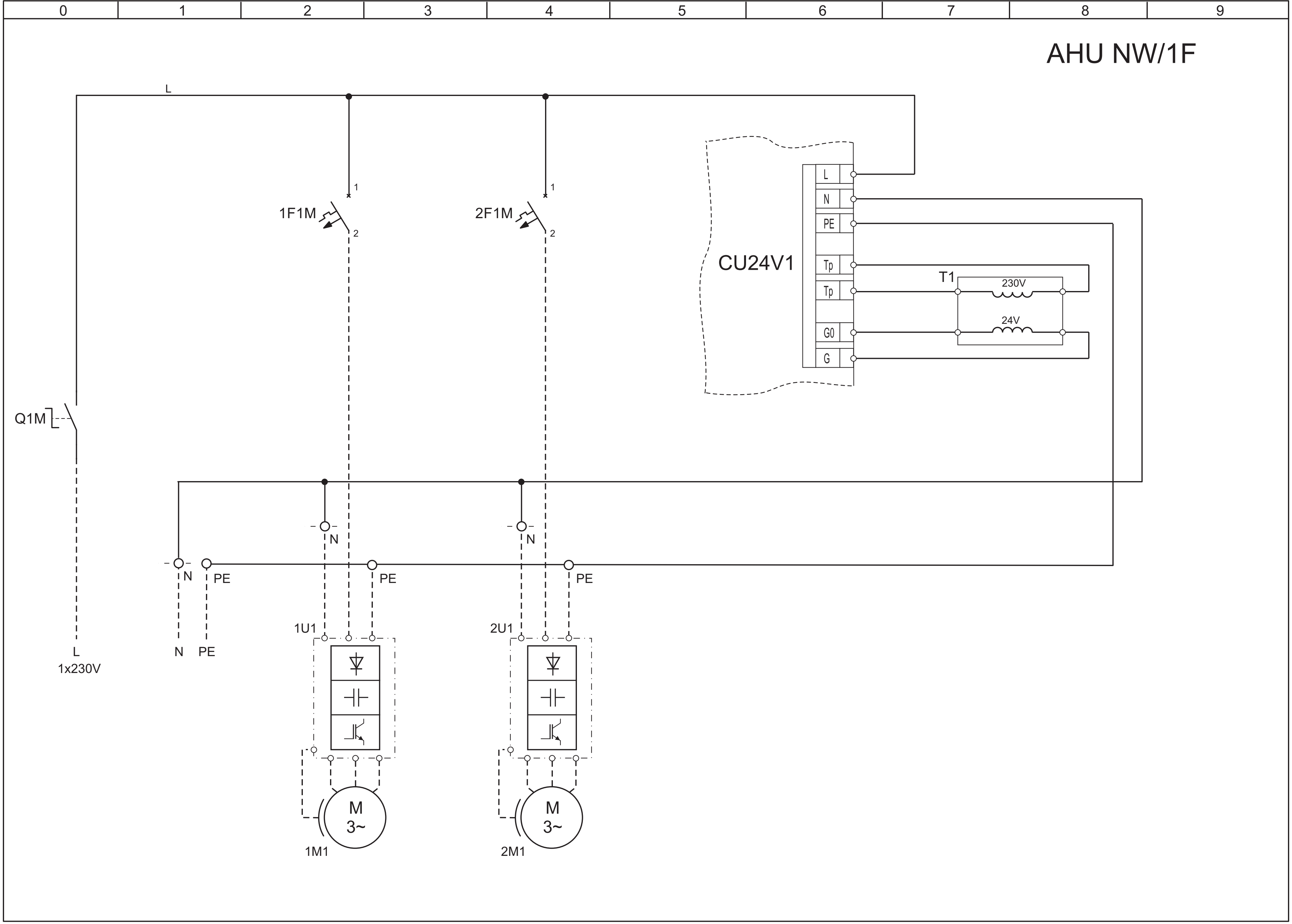


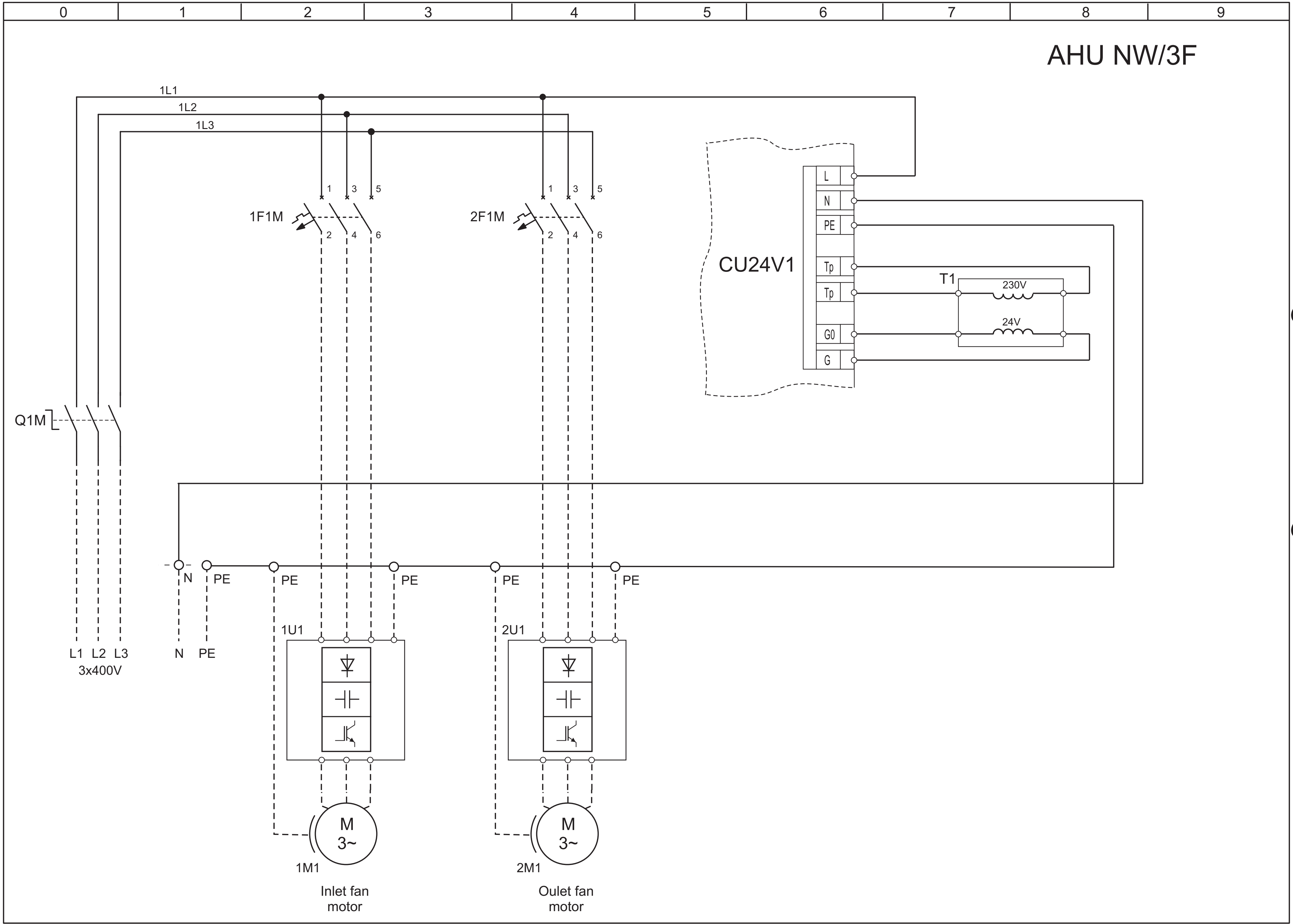
Inlet-Outlet AHU with recirculation dampers , Electric heater, Cooling compressor



Electrical drawing of the switch gear for AHU NW/1F



Electrical drawing of the switch gear for AHU NW/3F



Wiring diagram of the controller