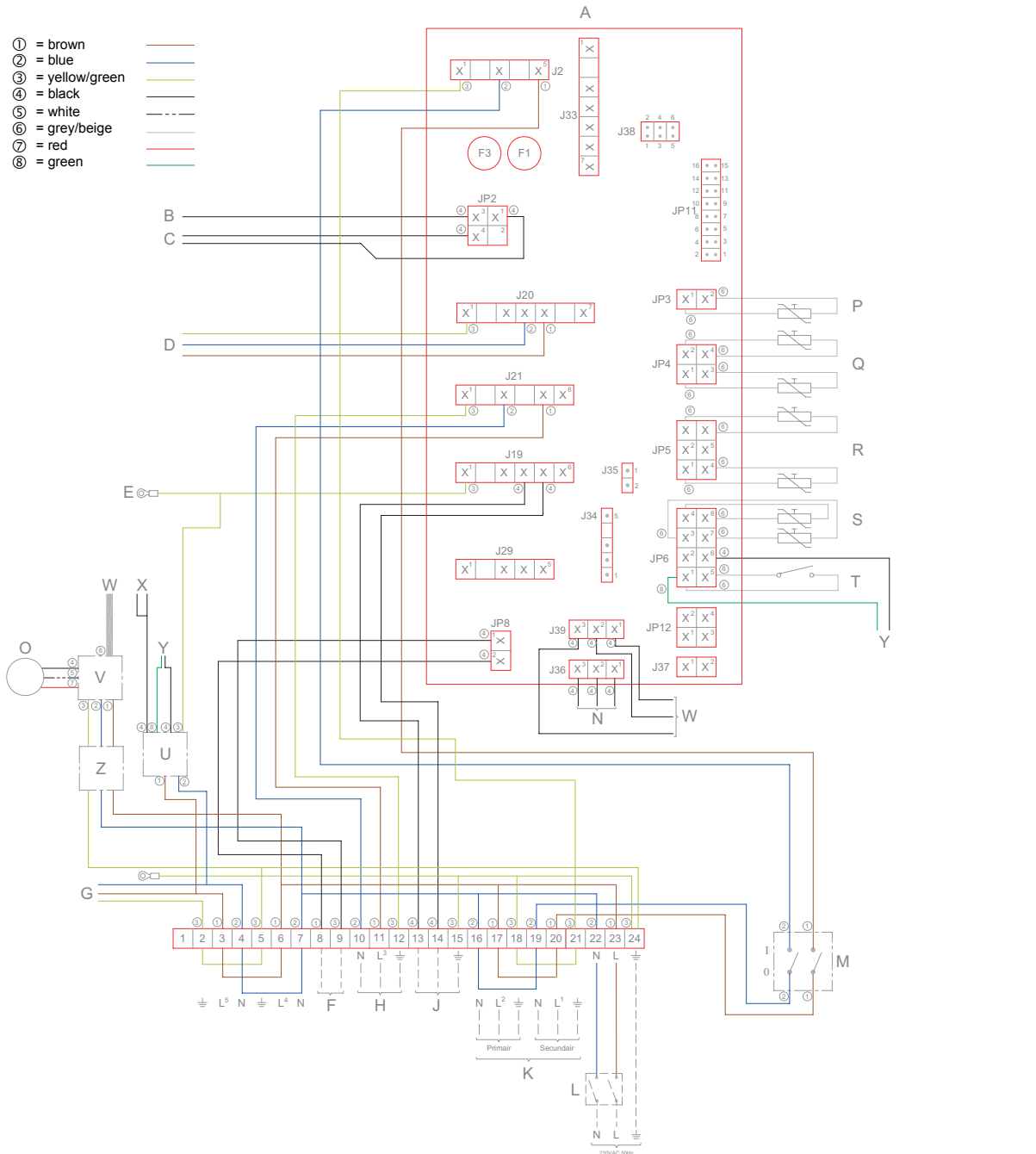


### A.2 Electrical diagram DR-FC



**TERMINAL STRIP CONNECTIONS:**

- ⊕ Earth
- N Neutral
- L Phase input of controller
- L<sup>1</sup> Phase output of isolating transformer (secondary side)
- L<sup>2</sup> Phase input of isolating transformer (primary side)
- L<sup>3</sup> Phase input of program-controlled pump
- L<sup>4</sup> Phase input of frequency controller
- L<sup>5</sup> Phase input of continuous pump

**COMPONENTS:**

- A Controller
- B Flame probe
- C Hot surface igniter
- D Gas control valve
- E Burner earth connection
- F External ON mode switch
- G Heater circulation pump

- H Program-controlled pump
- J External error signal
- K Isolating transformer
- L Double-pole local isolator
- M Controller ON/OFF switch
- N Display/Flat cable
- O Fan
- P Temperature sensor (T2 - bottom of heater)
- Q Dummy
- R Temperature sensor (T1 - top of heater)
- S Selection resistor
- T Pressure switch
- U Potentiostat
- V Frequency controller
- W RS-485 Interface
- X Electric anodes
- Y Signaling for electric anodes
- Z Mains choke and EMC filter

**CONTROLLER CONNECTIONS:**

- J2 Connector for power supply to controller
- J19 Connector for external error signal
- J20 Connector for gas control
- J21 Connector for program-controlled pump
- J36 Connector for display to controller
- J39 Connector for fan control signal
- JP2 Connector for flame probe and hot surface igniter
- JP3 Connector for temperature sensor T2
- JP4 Connector for dummy
- JP5 Connector for temperature sensor T1
- JP6 Connector for selection resistor, pressure switch and anode signaling
- JP8 Connector for extra ON mode switch
- F1 Fuse
- F3 Fuse

**Figure A.1** Electrical diagram DR-FC