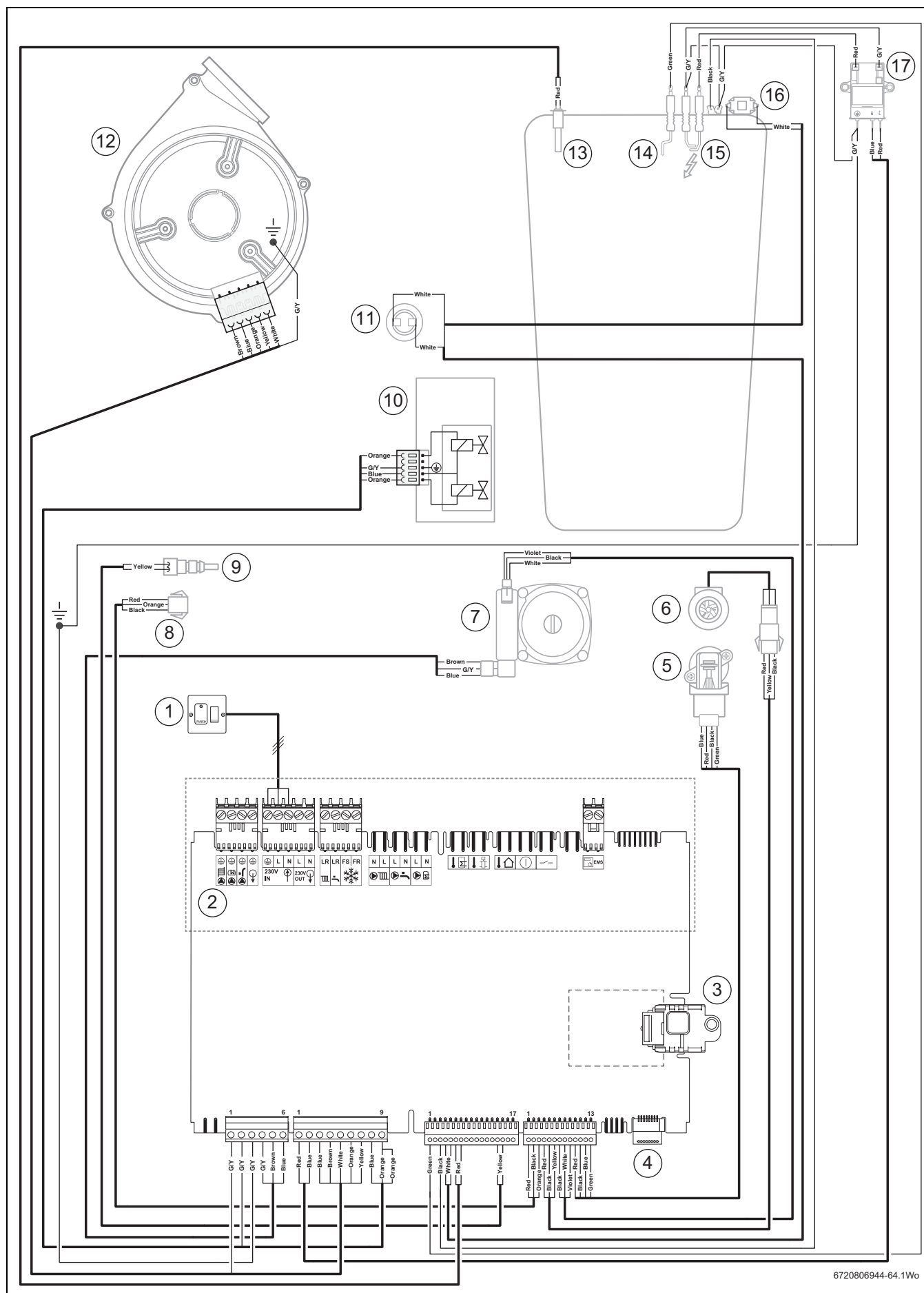


## 3.4.1 Electrical diagram



6720806944-64.1Wo

Fig. 3 Electrical diagram

**Legend to figure 3:**

- [1] Mains supply
- [2] Electrical connections
- [3] HCM
- [4] Ribbon cable to display screen
- [5] Diverter valve
- [6] Flow turbine
- [7] Circulating pump
- [8] NOT USED
- [9] Domestic Hot Water temperature sensor (NTC)
- [10] Gas valve
- [11] Flue overheat thermostat
- [12] Fan  
230 Vac across brown & blue wires
- [13] Flow temperature sensor (NTC)
- [14] Flame sense electrode
- [15] Spark electrodes
- [16] Overheat thermostat
- [17] Spark generator



**Resistance values**

- Component resistance characteristics can be found in section 8.2, page 69.
- Flow temperature NTC sensor
- DHW NTC sensor
- Flue overheat thermostat
- Overheat thermostat
- Outdoor weather compensation sensor
- Gas valve

Connections/ symbol	Function
	1) Earth connections for: <ul style="list-style-type: none"> <li>• CH circulation pump (NOT USED)</li> <li>• DHW charge pump (NOT USED)</li> <li>• DHW circulation pump (NOT USED)</li> <li>• 230V external controls</li> </ul>
	230V supply to the appliance <ul style="list-style-type: none"> <li>• Earth input</li> <li>• Live input</li> <li>• Neutral input</li> </ul>
	230V feed to external controls <ul style="list-style-type: none"> <li>• Live output</li> <li>• Neutral output</li> </ul>
	Switch live (Live Return) to appliance <ul style="list-style-type: none"> <li>• CH demand input</li> <li>• DHW demand input (pre-heat time control)</li> </ul>
	External frost thermostat <ul style="list-style-type: none"> <li>• FS output (Frost thermostat supply)</li> <li>• FR input (Frost thermostat return)</li> </ul>
	DHW charge pump (NOT USED)
	DHW circulation pump (NOT USED)
	CH circulation pump (NOT USED)
	Cylinder sensor (NOT USED)
	Low Loss Header sensor (NOT USED)
	Outdoor weather compensation sensor (used when accessory outdoor sensor is connected)
	External cut off switch (NOT USED)
	Low voltage switch (NOT USED)
	2) External control system with EMS bus control (connection for Worcester intelligent wall mounted controls)

Table 6 Electrical connections

- 1) Green plug in connector pack found under installer connections cover.
- 2) Orange plug in connector pack found under installer connections cover.