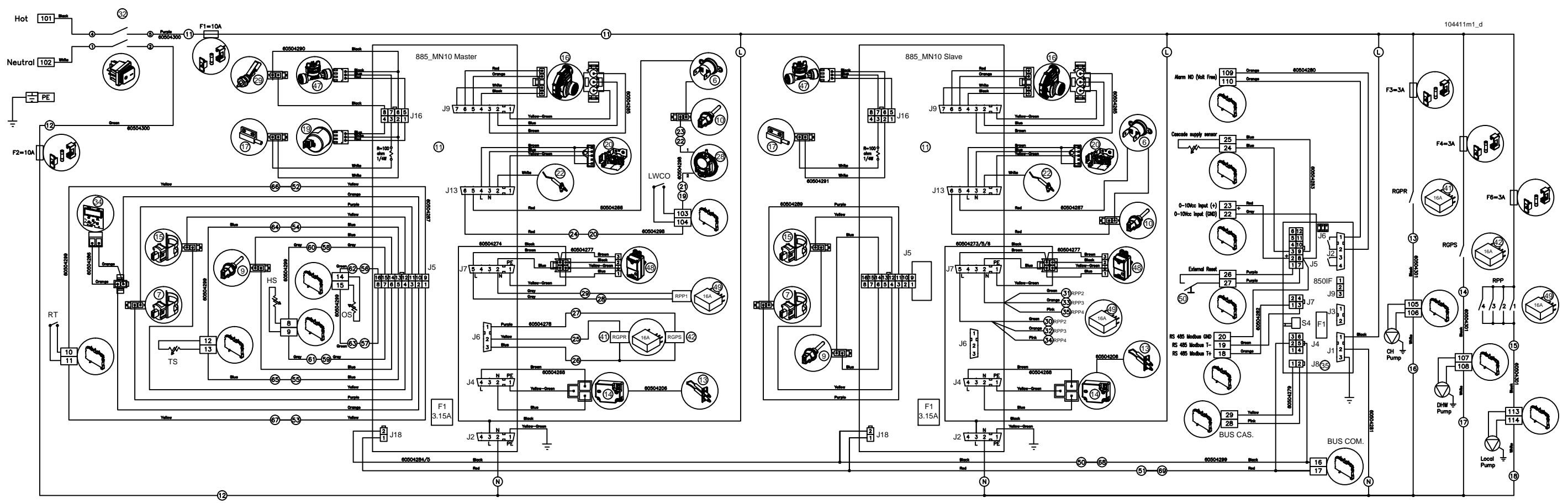


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IE2-399 - 1000
WIRING DIAGRAM

SCALE:	NONE	SHEET:	1 of 3	DWG. SIZE:		DRAWING NUMBER:		P. #:	
DR. BY:		DATE:	3/5/14						
CHK. BY:		DATE:							
						42-9003			



- 1 - Air inlet
- 2 - Flue exhaust
- 3 - Automatic air vent
- 4 - Sealing chamber
- 5 - Three way valve (optional)
- 6 - High limit supply temperature switch
- 7 - Supply temperature sensor
- 8 - Purging cock
- 9 - Flue gas temperature sensor
- 10 - High limit flue gas temperature switch
- 11 - Control board
- 12 - Premix burner
- 13 - Ignition electrodes
- 14 - ignitor

- 15 - Return temperature sensor
- 16 - Modulating PWM fan
- 17 - Back flue preventer
- 18 - Section valve (optional)
- 19 - Water pressure sensor
- 20 - Gas valve
- 21 - Circulator pump
- 22 - Detection electrode
- 23 - Supply and return manifolds
- 24 - CRV Stainless steel heat exchanger
- 25 - Heating supply

- 26 - Heating return
- 27 - Gas supply
- 28 - Blocked flue pressure switch
- 29 - Condensing blocked drain switch
- 30 - Condensing drain
- 31 - Condensate Siphon
- 32 - Main electrical switch
- 33 - System temperature sensor
- 34 - Display
- 35 - Modbus interface board
- 36 - Condensate neutralizer
- 37 - CSD-1 safety devices:
 - ASME relief valve
 - Low water cut-off
 - High limit temperature switch
 - Temperature gauge
 - Pressure gauge

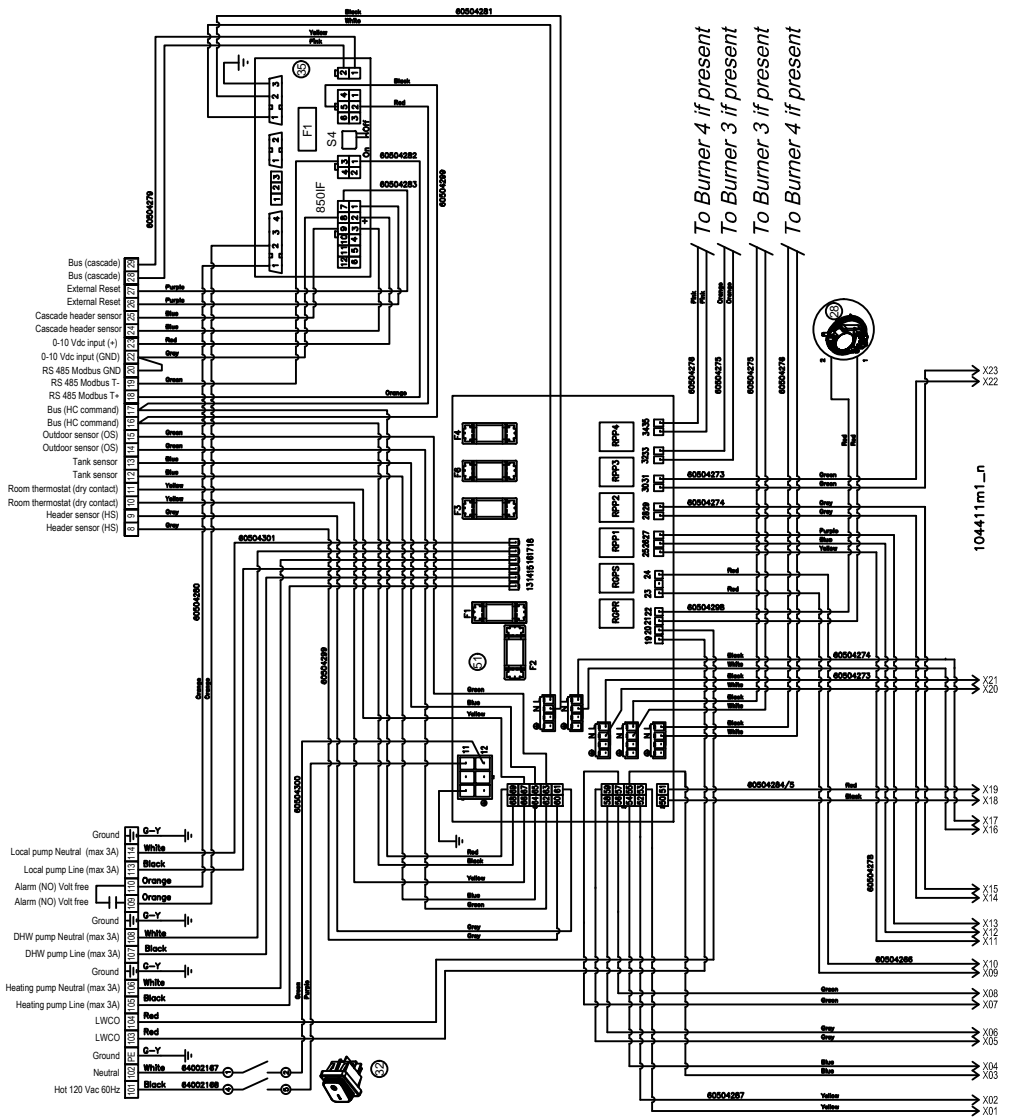
- 38 - Summer disable CH pump jump (when outdoor reset working all the time)
- 39 - Room thermostat relay
- 40 - 2 minutes timer
- 41 - CH pump relay
- 42 - DHW pump relay
- 43 - Relays for the control of the external pumps
- 44 - Enable parallel CH and DHW pump working
- 45 - Unit electrical switch
- 46 - 110 to 24Vca transformer
- 47 - Flow meter
- 48 - Motorized valve (optional)
- 49 - System pump relays
- 50 - External reset
- LWCO - Low water cut-off and all other CSD-1 safety devices connection
- CH Pump - Central heating pump
- DHW Pump - Indirect water heater pump

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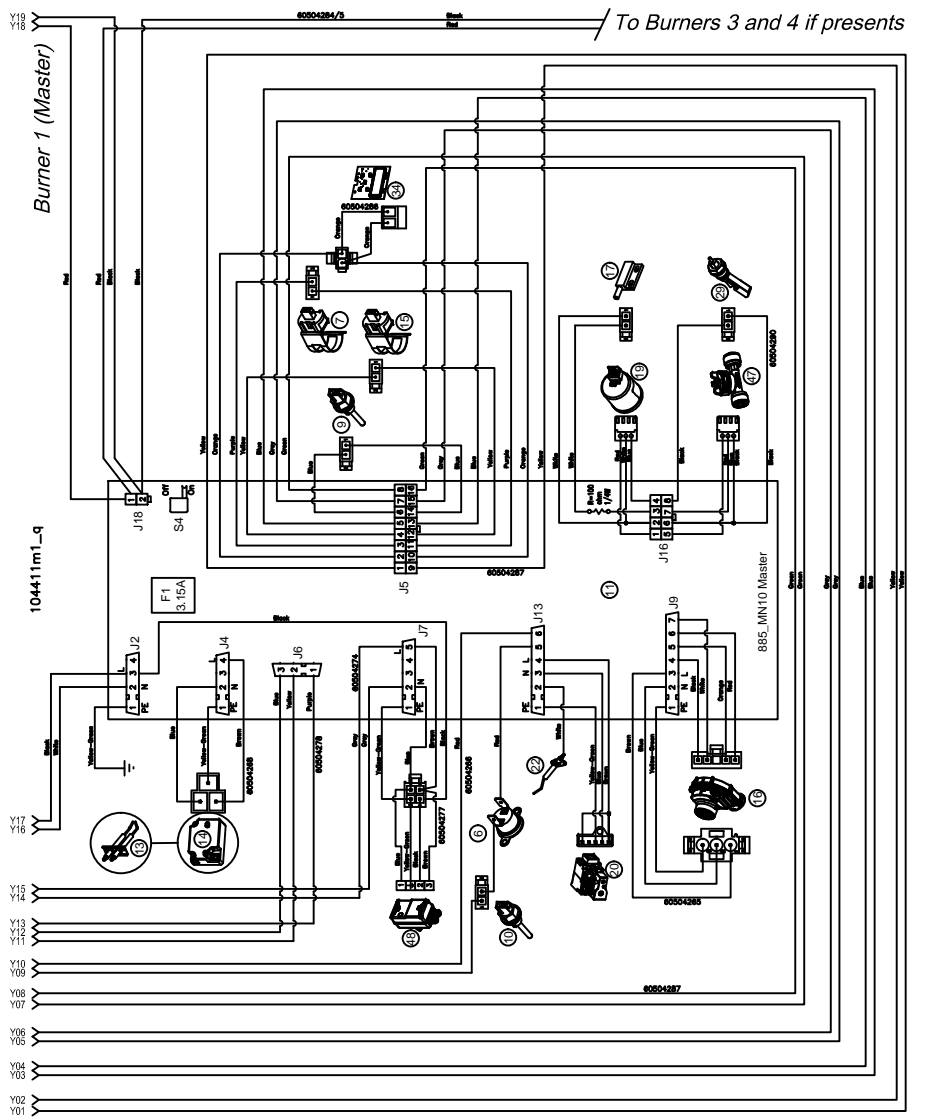
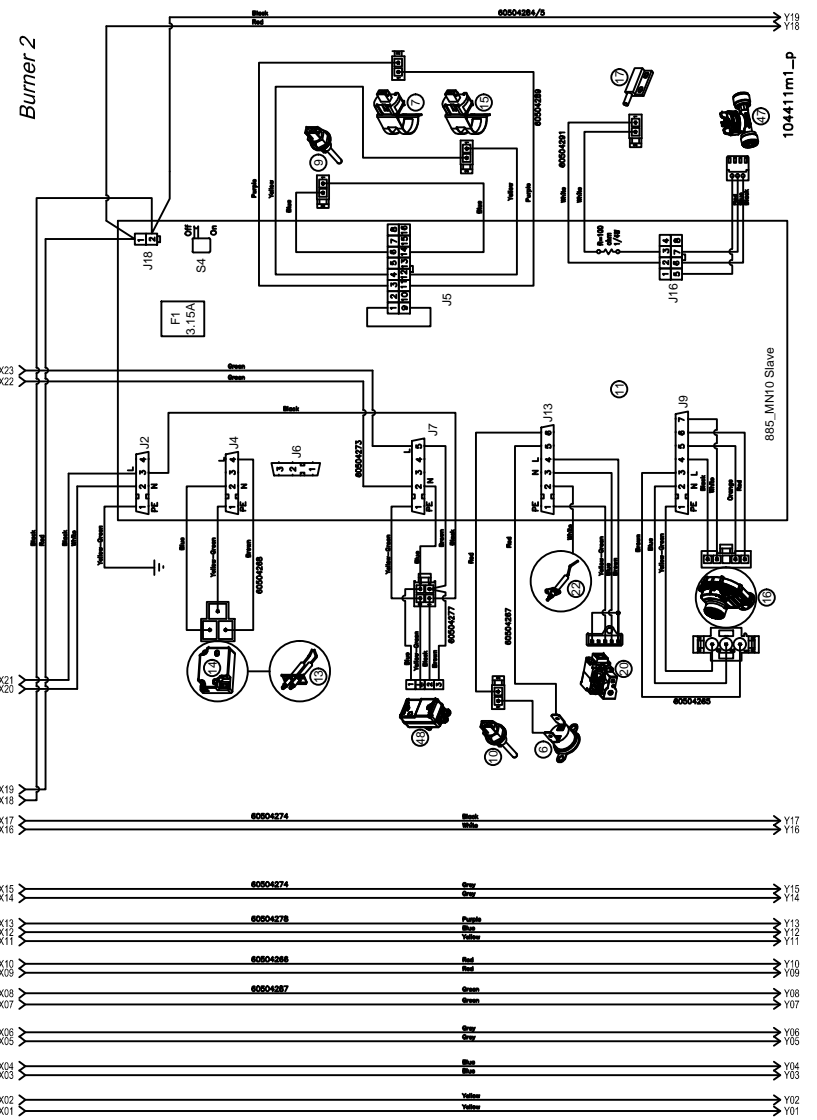


IE2-399 - 1000
WIRING DIAGRAM

SCALE: NONE	SHEETS: 2 of 3	DWG. SIZE:	DRAWING NUMBER:	P. 5
DR. BY:	DATE: 3/5/14	OC. BY:	B 42-9003	-



To Burner 4 if present
 To Burner 3 if present
 To Burner 4 if present



- 1 - Air inlet
- 2 - Flue exhaust
- 3 - Automatic air vent
- 4 - Sealing chamber
- 5 - Three way valve (optional)
- 6 - High limit supply temperature switch
- 7 - Supply temperature sensor
- 8 - Purging cock
- 9 - Flue gas temperature sensor
- 10 - High limit flue gas temperature switch
- 11 - Control board
- 12 - Premix burner
- 13 - Ignition electrodes
- 14 - Ignitor

- 15 - Return temperature sensor
- 16 - Modulating PWM fan
- 17 - Back flue preventer
- 18 - Section valve (optional)
- 19 - Water pressure sensor
- 20 - Gas valve
- 21 - Circulator pump
- 22 - Detection electrode
- 23 - Supply and return manifolds
- 24 - CRV Stainless steel heat exchanger
- 25 - Heating supply

- 26 - Heating return
- 27 - Gas supply
- 28 - Blocked flue pressure switch
- 29 - Condensing blocked drain switch
- 30 - Condensing drain
- 31 - Condensate Siphon
- 32 - Main electrical switch
- 33 - System temperature sensor
- 34 - Display
- 35 - Modbus interface board
- 36 - Condensate neutralizer
- 37 - CSD-1 safety devices:
 - ASME relief valve
 - Low water cut-off
 - High limit temperature switch
 - Temperature gauge
 - Pressure gauge

- 38 - Summer disable CH pump jump (when outdoor reset working all the time)
- 39 - Room thermostat relay
- 40 - 2 minutes timer
- 41 - CH pump relay
- 42 - DHW pump relay
- 43 - Relays for the control of the external pumps
- 44 - Enable parallel CH and DHW pump working
- 45 - Unit electrical switch
- 46 - 110 to 24Voa transformer
- 47 - Flow meter
- 48 - Motorized valve (optional)
- 49 - System pump relays
- 50 - External reset
- LWCO - Low water cut-off and all other CSD-1 safety devices connection
- CH Pump - Central heating pump
- DHW Pump - Indirect water heater pump

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IE2-399 - 1000
 WIRING DIAGRAM

SCALE: NONE	SHEETS: 3 of 3	DWG. SIZE: B	DRAWING NUMBER: 42-9003	R/C: -
DR. BY: DATE	3/5/14			