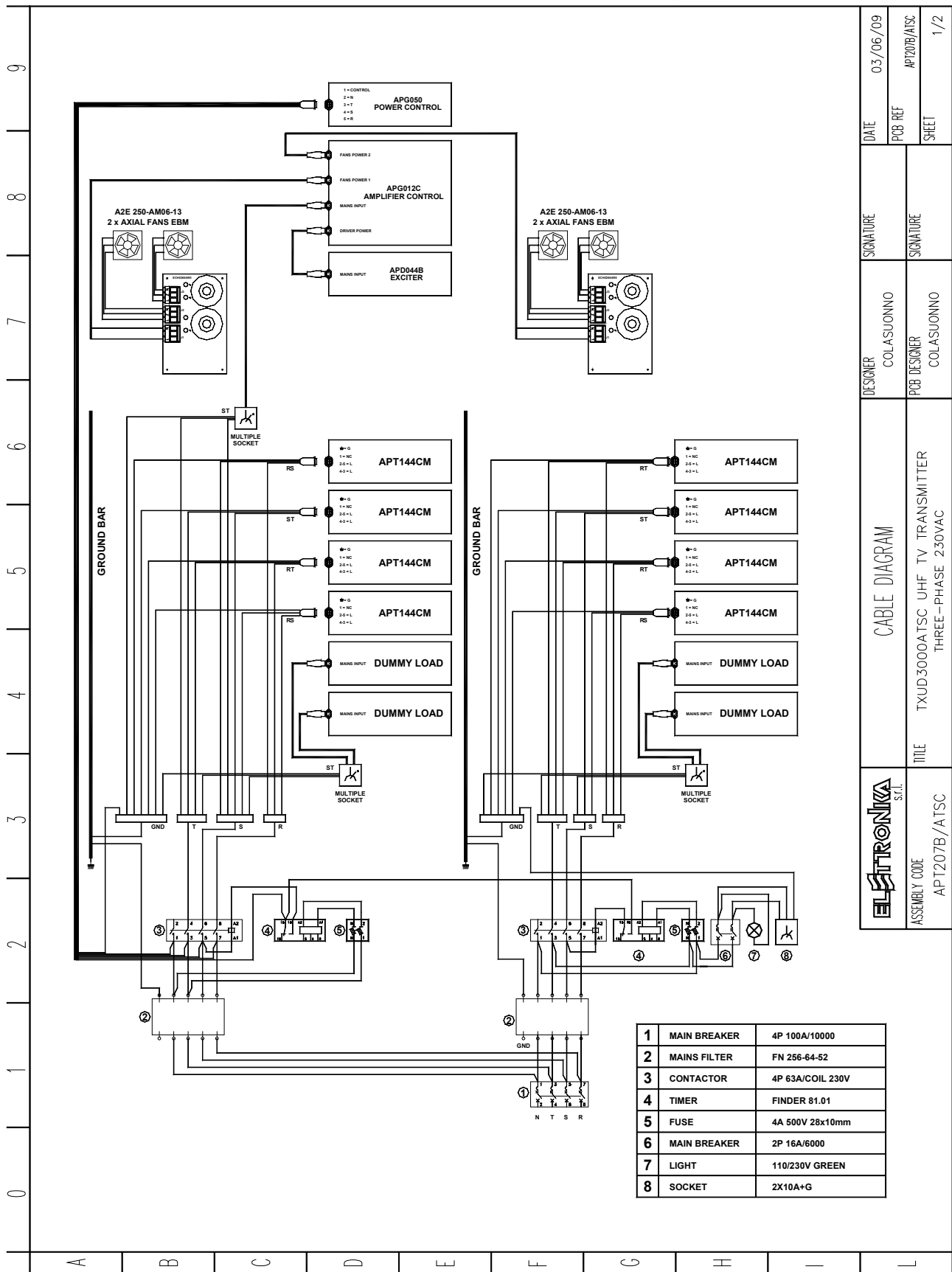
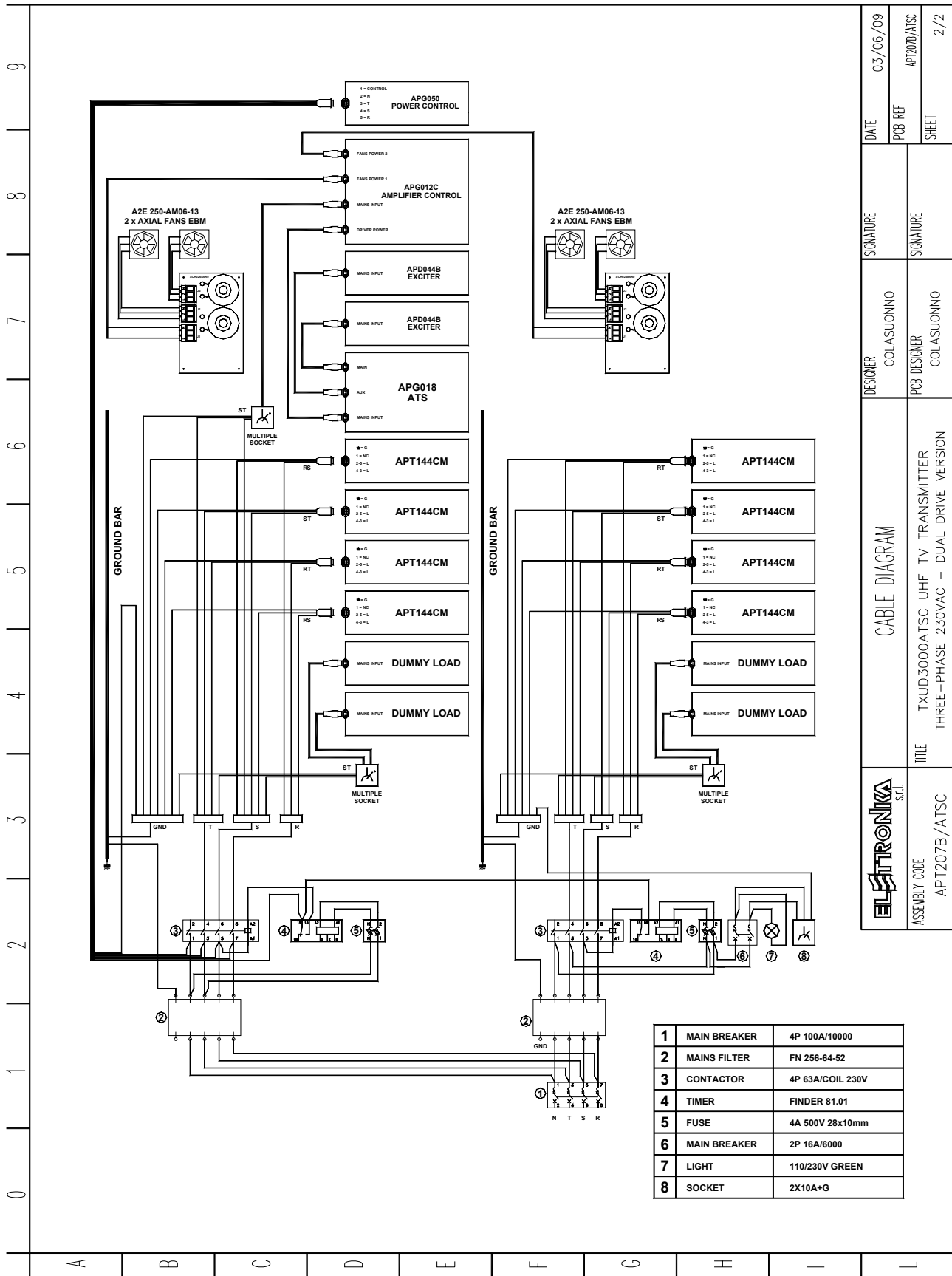
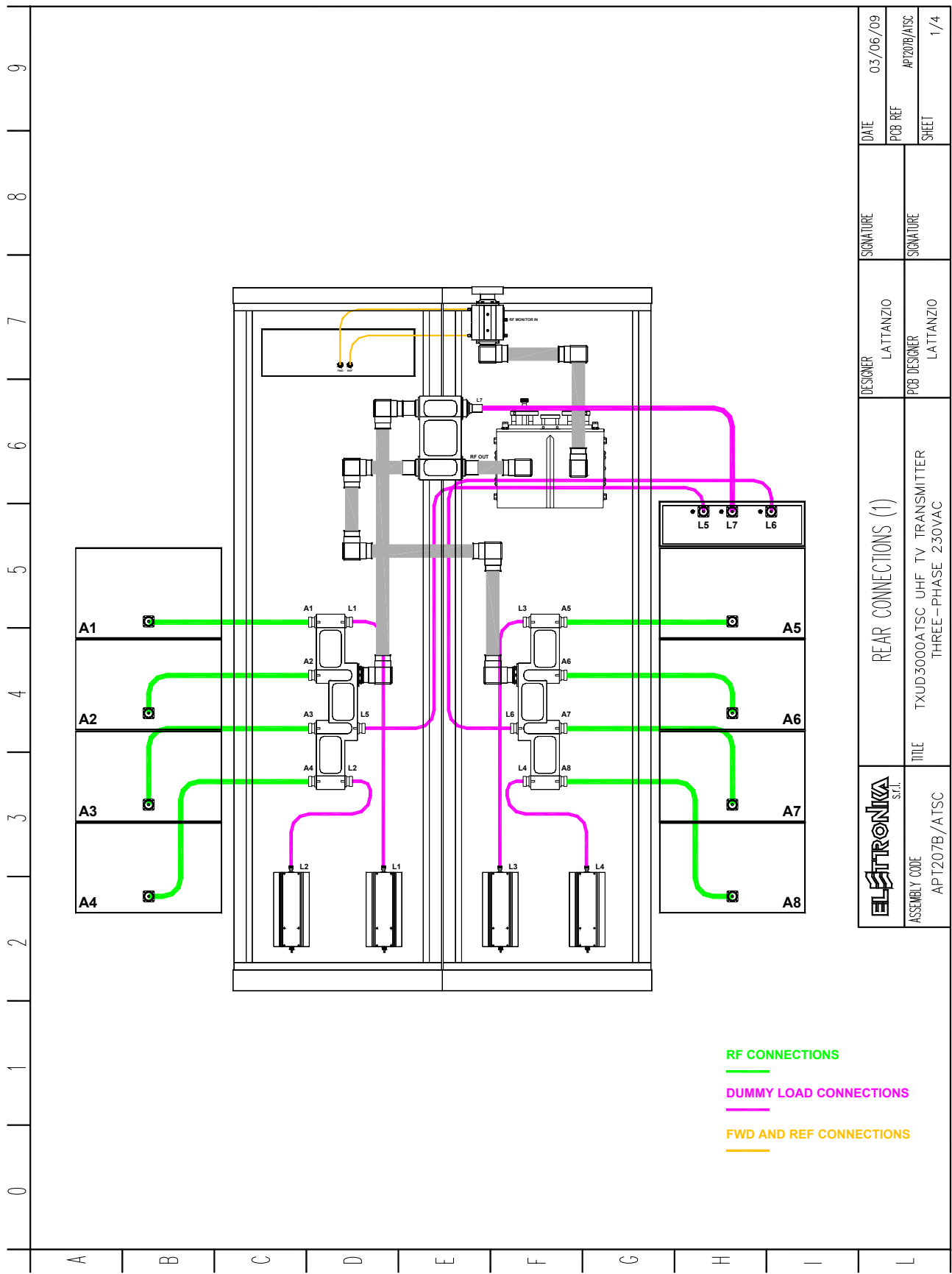




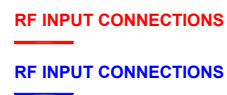
ELETRONIKA s.r.l.		CABLE DIAGRAM		DESIGNER	COLASUONNO	SIGNATURE	DATE	03/06/09
ASSEMBLY CODE		TITLE		PCB DESIGNER		SIGNATURE	PCB REF	APT207B/ATSC
APT207B/ATSC		TXUD3000ATSC UHF TV TRANSMITTER THREE-PHASE 230VAC		COLASUONNO			SHEET	1/2



	CABLE DIAGRAM	DESIGNER	SIGNATURE	DATE
		COLASUONNO		03/06/09
		PCB DESIGNER	SIGNATURE	PCB REF
ASSEMBLY CODE	TITLE	COLASUONNO		AP207B/ATSC
APT207B/ATSC	TXUD3000ATSC UHF TV TRANSMITTER THREE-PHASE 230VAC - DUAL DRIVE VERSION			SHEET 2/2

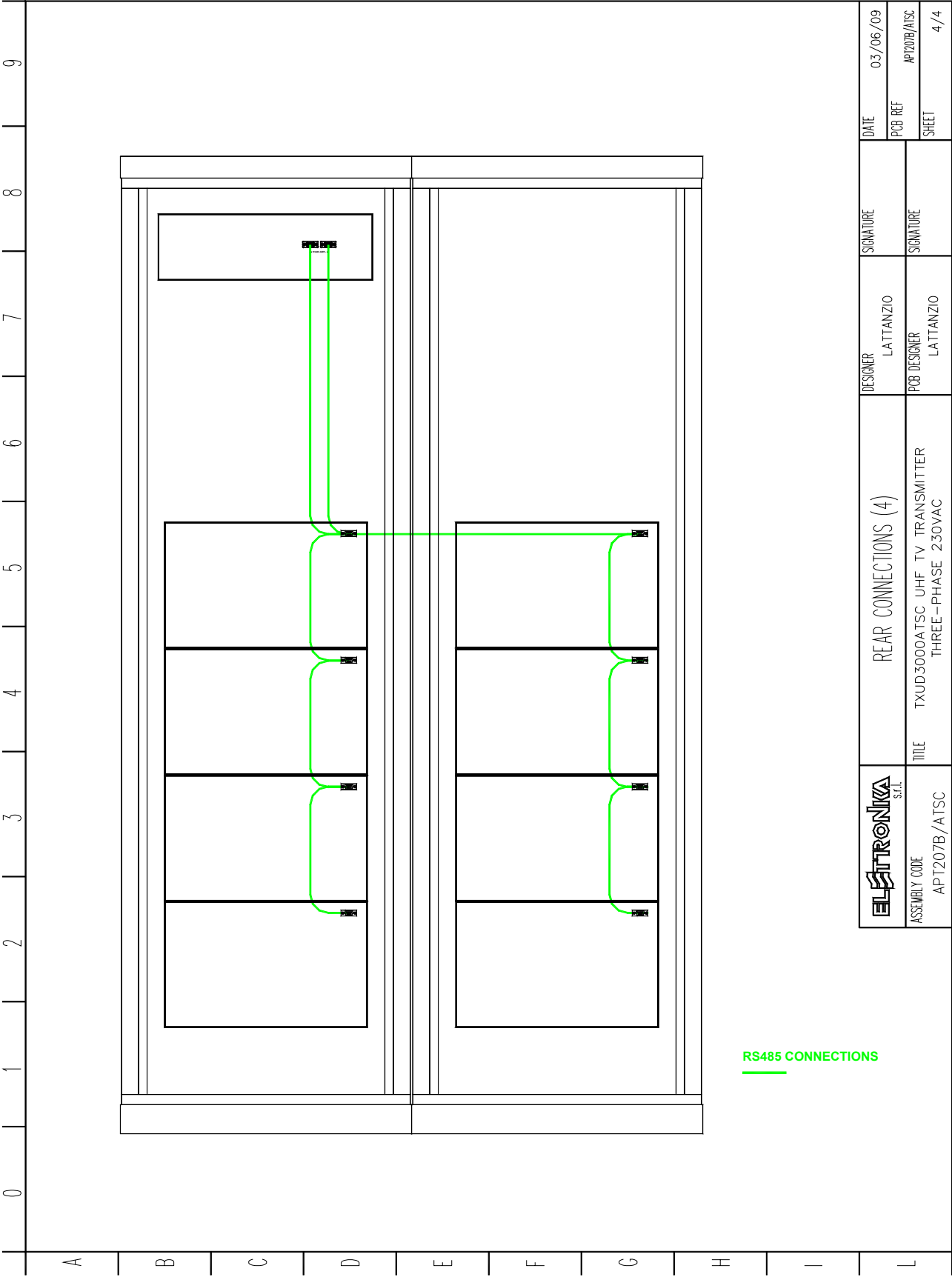


ELATRONIKA s.r.l.	REAR CONNECTIONS (1)		DESIGNER	SIGNATURE	DATE
	TITLE TXUD3000ATSC UHF TV TRANSMITTER THREE - PHASE 230VAC		LATTANZIO		03/06/09
			PCB DESIGNER LATTANZIO	SIGNATURE	APT207B/ATSC
ASSEMBLY CODE APT207B/ATSC				SHEET	1/4

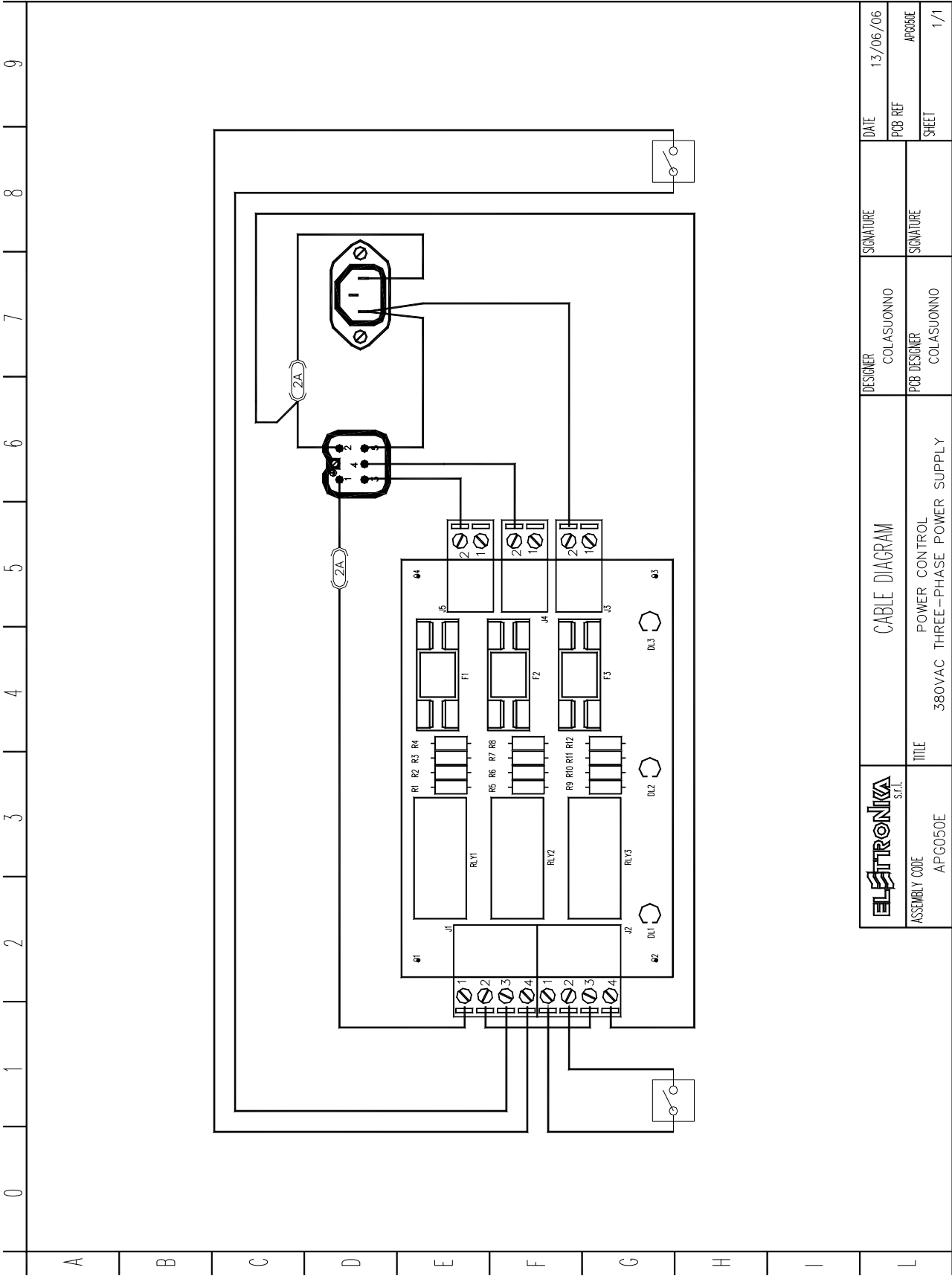


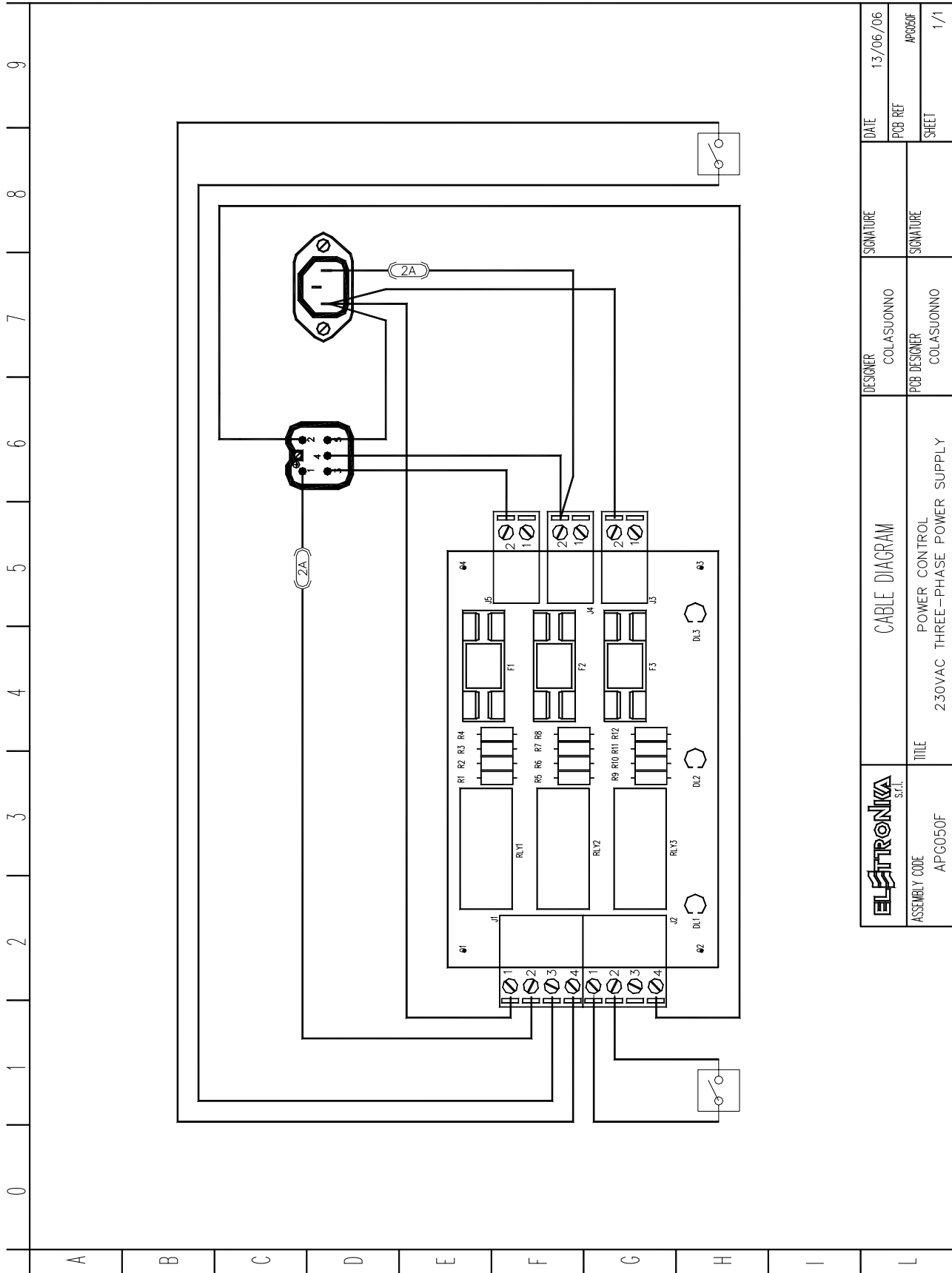
	REAR CONNECTIONS (2)			DESIGNER	SIGNATURE	DATE	03/06/09
	TITLE	TXUD3000ATSC UHF TV TRANSMITTER THREE-PHASE 230VAC	PCB DESIGNER	LATTANZIO	PCB REF		
					LATTANZIO	SHEET	2/4





ELATRONIKA S.r.l. ASSEMBLY CODE APT207B/ATSC	REAR CONNECTIONS (4)		DESIGNER LATTANZIO	SIGNATURE	DATE 03/06/09
	TITLE TXUD3000ATSC UHF TV TRANSMITTER THREE-PHASE 230VAC	PCB DESIGNER LATTANZIO	SIGNATURE		PCB REF APT207B/ATSC
					SHEET 4/4





ELSTRONIKA
s.r.l.

ASSEMBLY CODE

APG050F

TITLE

230VAC THREE-PHASE POWER SUPPLY

CABLE DIAGRAM

DESIGNER

COLASUONNO

SIGNATURE

DATE

13/06/06

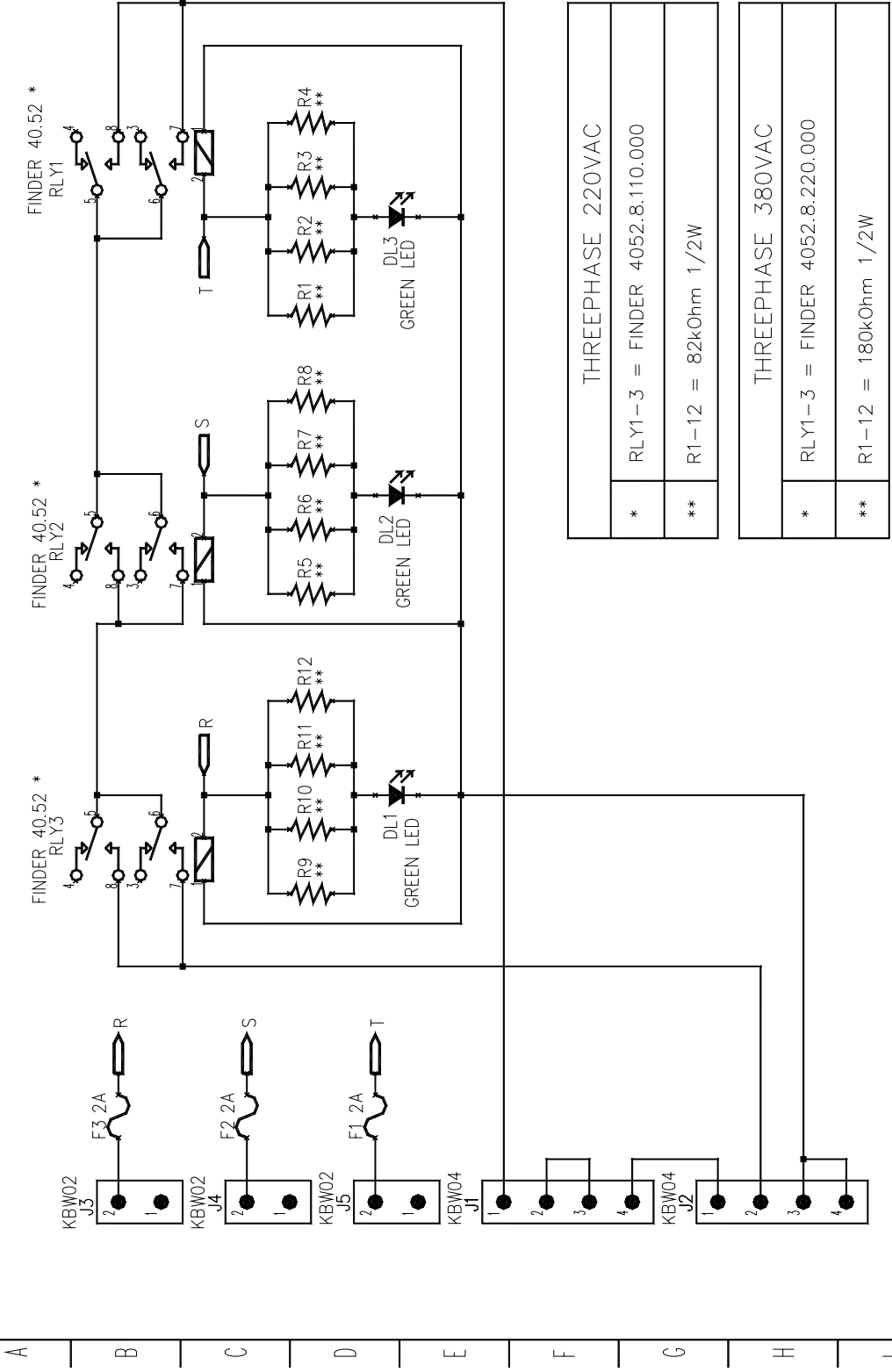
PCB REF

APG050F

SHEET

1/1

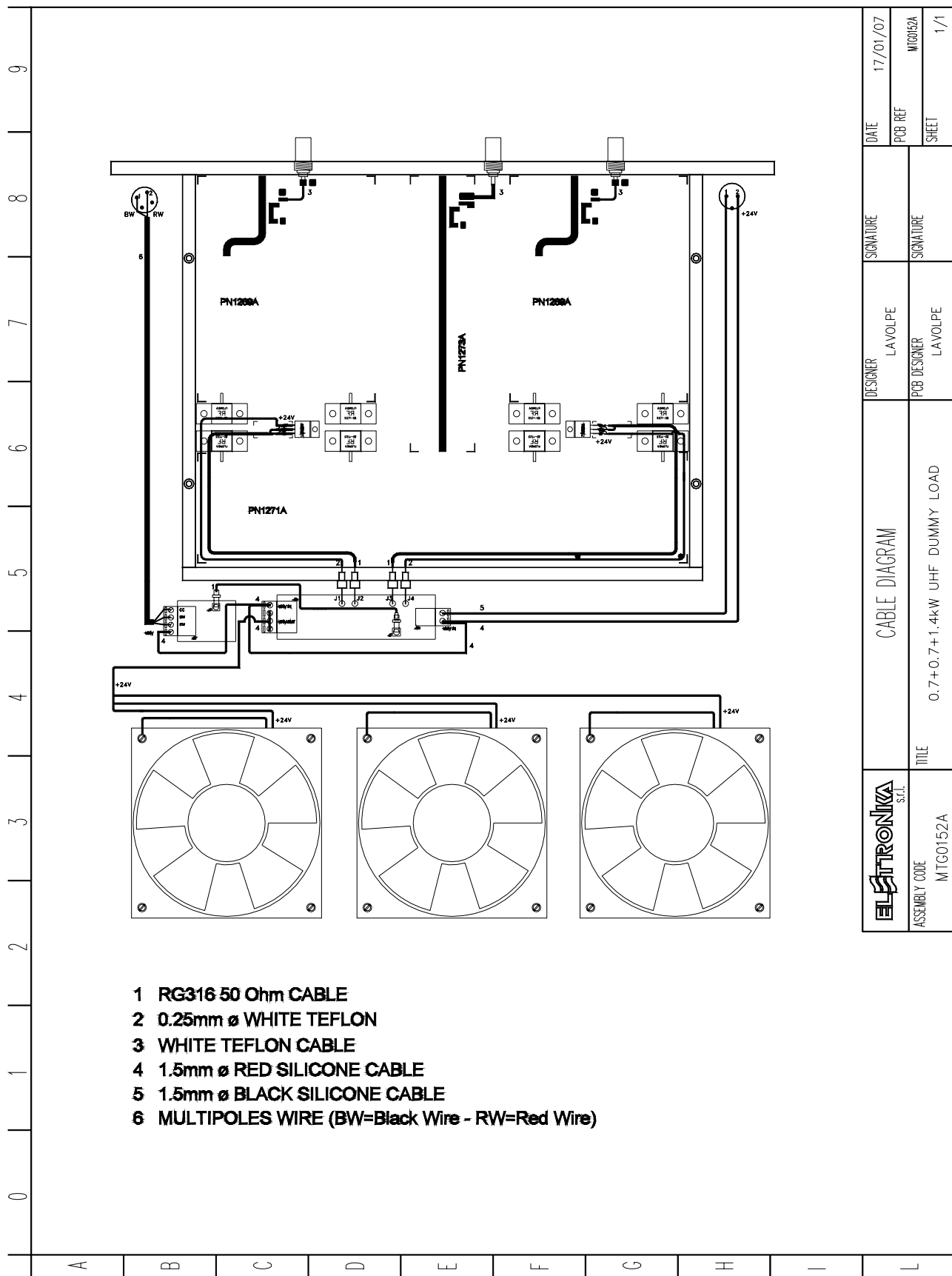
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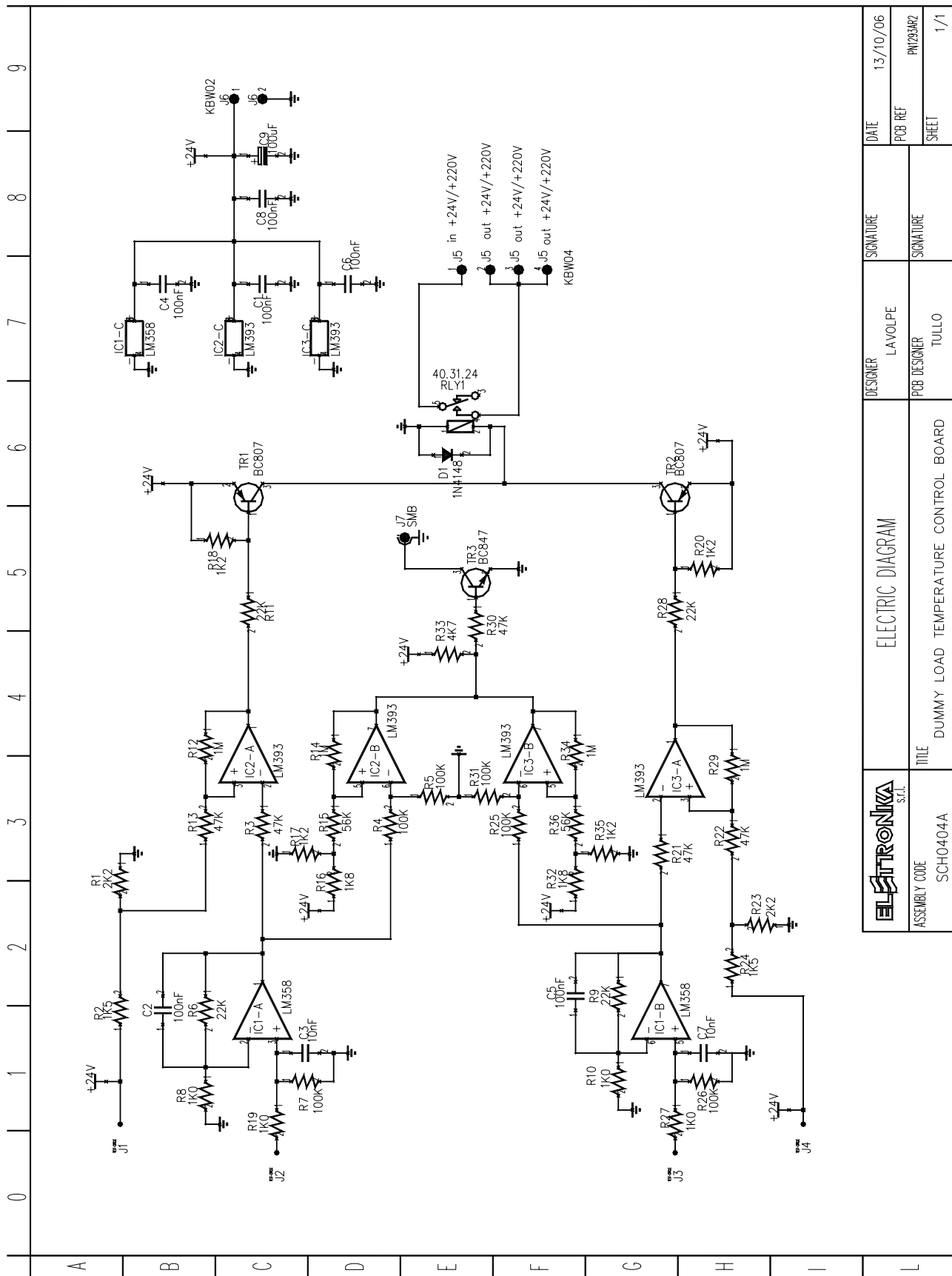


THREEPHASE 220VAC	
*	RLY1-3 = FINDER 4052.8.110.000
**	R1-12 = 82kOhm 1/2W

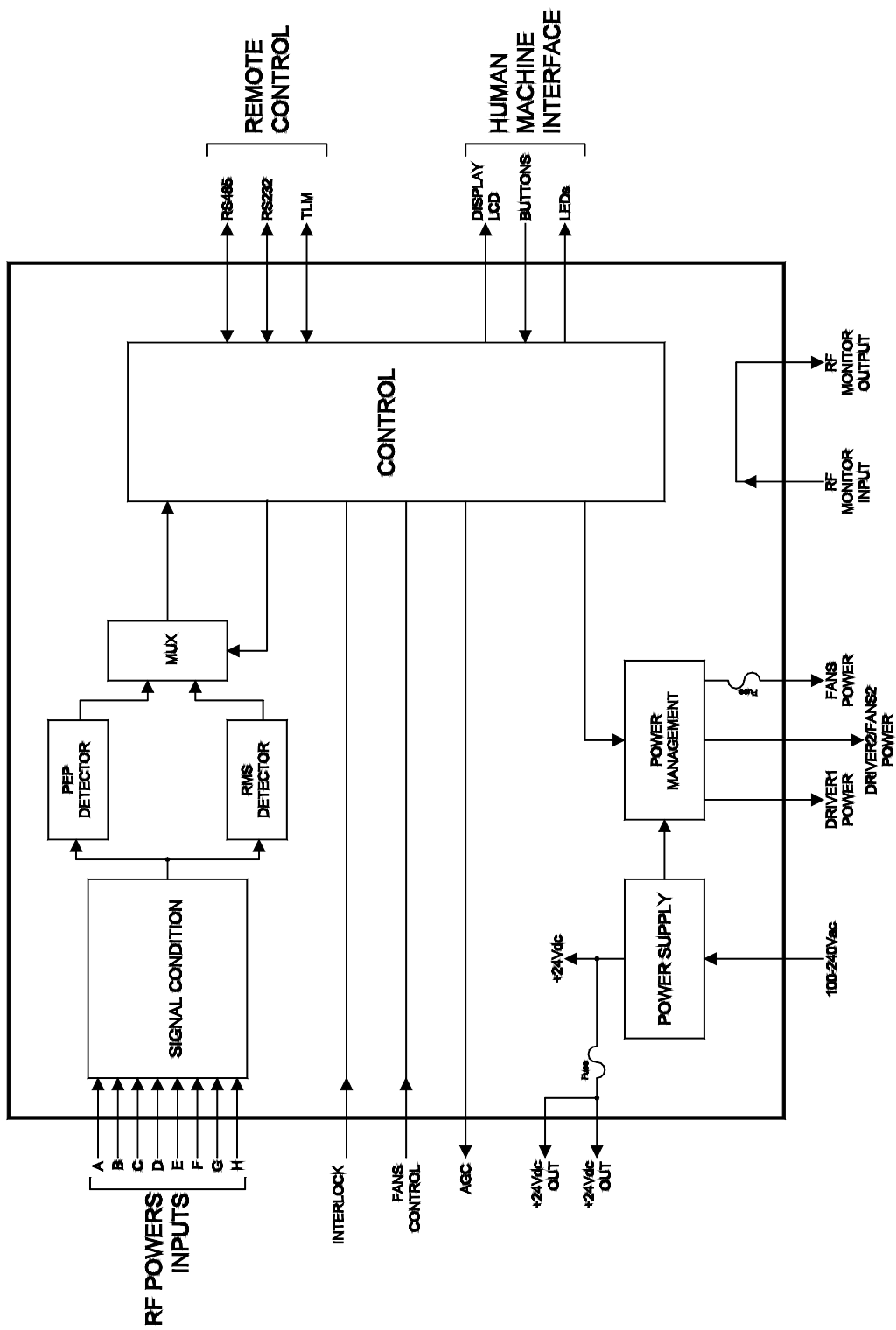
THREEPHASE 380VAC	
*	RLY1-3 = FINDER 4052.8.220.000
**	R1-12 = 180kOhm 1/2W

 ASSEMBLY CODE SCH0398A	ELECTRIC DIAGRAM		DESIGNER COLASUONNO	SIGNATURE	DATE 13/06/06
	MAIN CONTROL BOARD		PCB DESIGNER TULLO	SIGNATURE	PCB REF PN1266R2
					SHEET 1/1





Block diagram

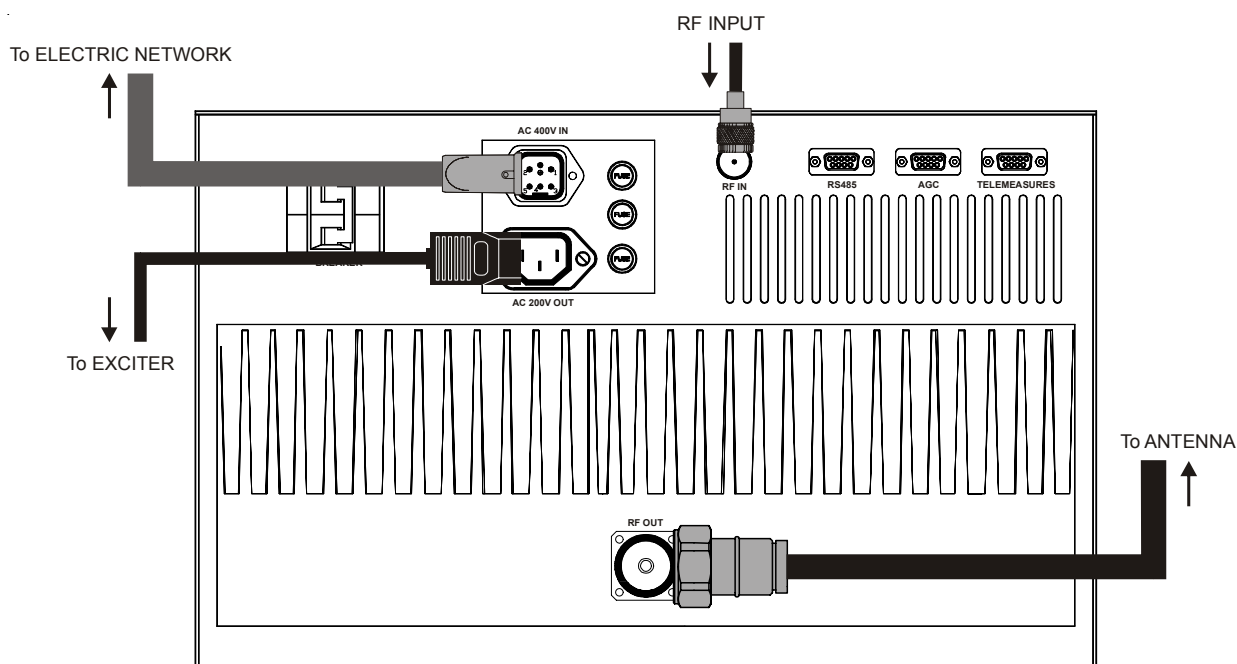


2.1 OPERATING ENVIRONMENT

You can install the equipment in a standard component rack or on a suitable surface such as a bench or desk. In any case, the area should be as clean and well-ventilated as possible. Do not locate the equipment directly above a hot piece of device. The upper lid can be dismounted to allow an easy internal access. The equipment is designed with a modular design, that is each circuit is realized inside different modules or boards. All interconnections between modules are made by means of connectable cables which allow an easy and quick maintenance of damaged modules.

2.2 FIRST INSTALLATION

Correct installation of the equipment is important for maximum performance and reliability. Antenna and earth connections must be installed with the greatest care. The equipment adjustment isn't need, because the unit is completely adjusted by our technical staff.



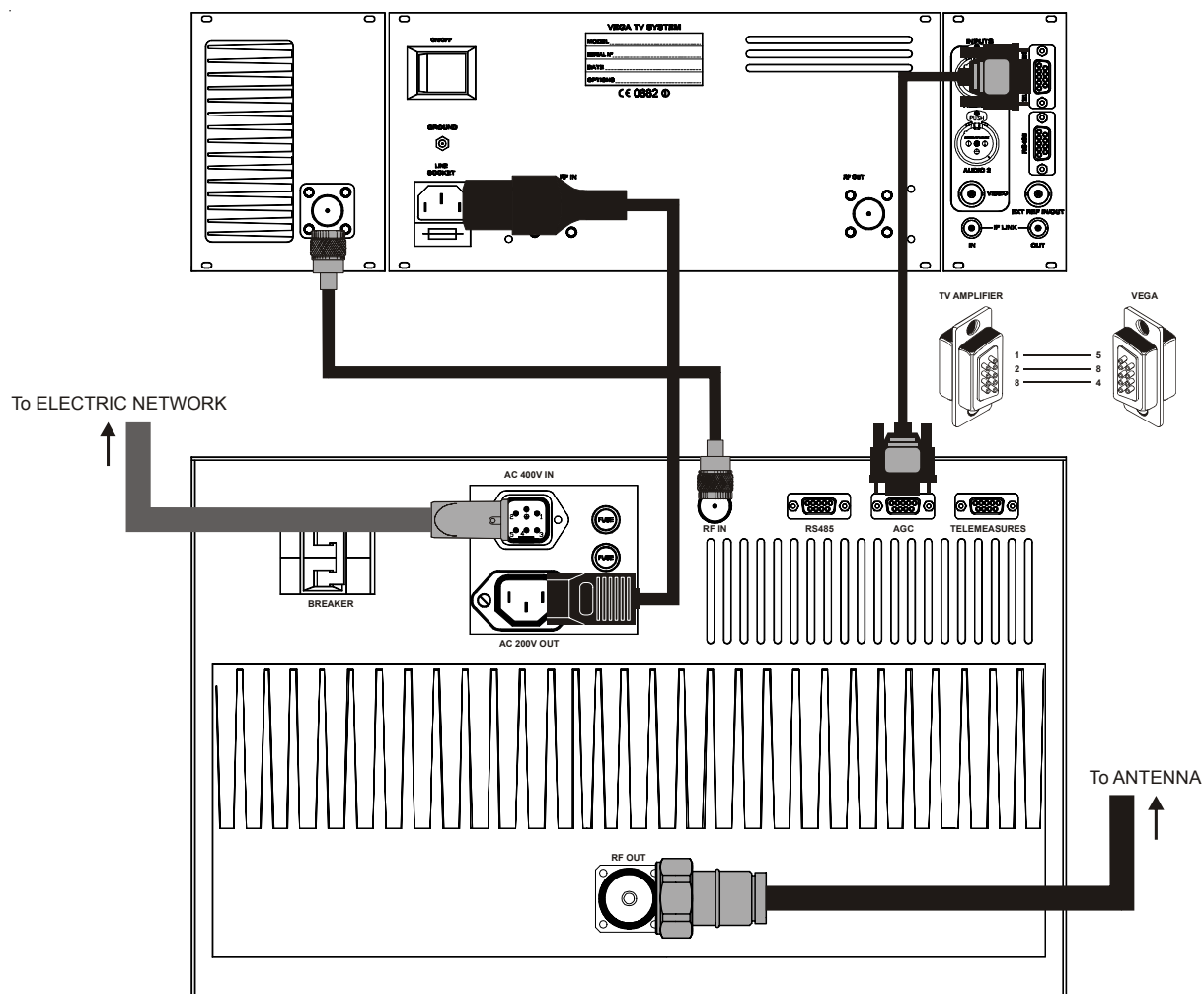
1. Connect Power Supply cable of the Exciter to the Auxiliary Socket on the rear panel of the Amplifier;
2. connect the Power Supply cable of the Amplifier to the electric network (230VAC Monophase or 400VAC Threephase); if present the Isolator Transformer, the Amplifier is provided with cable and plug;
3. connect the RF OUT Exciter cable to the RF IN connector on the rear panel of the Amplifier;
4. connect the Antenna cable to the RF OUT connector on the rear panel of the Amplifier.

When the equipment is put within a combined system it is directly connected to the input splitting and output combining systems.

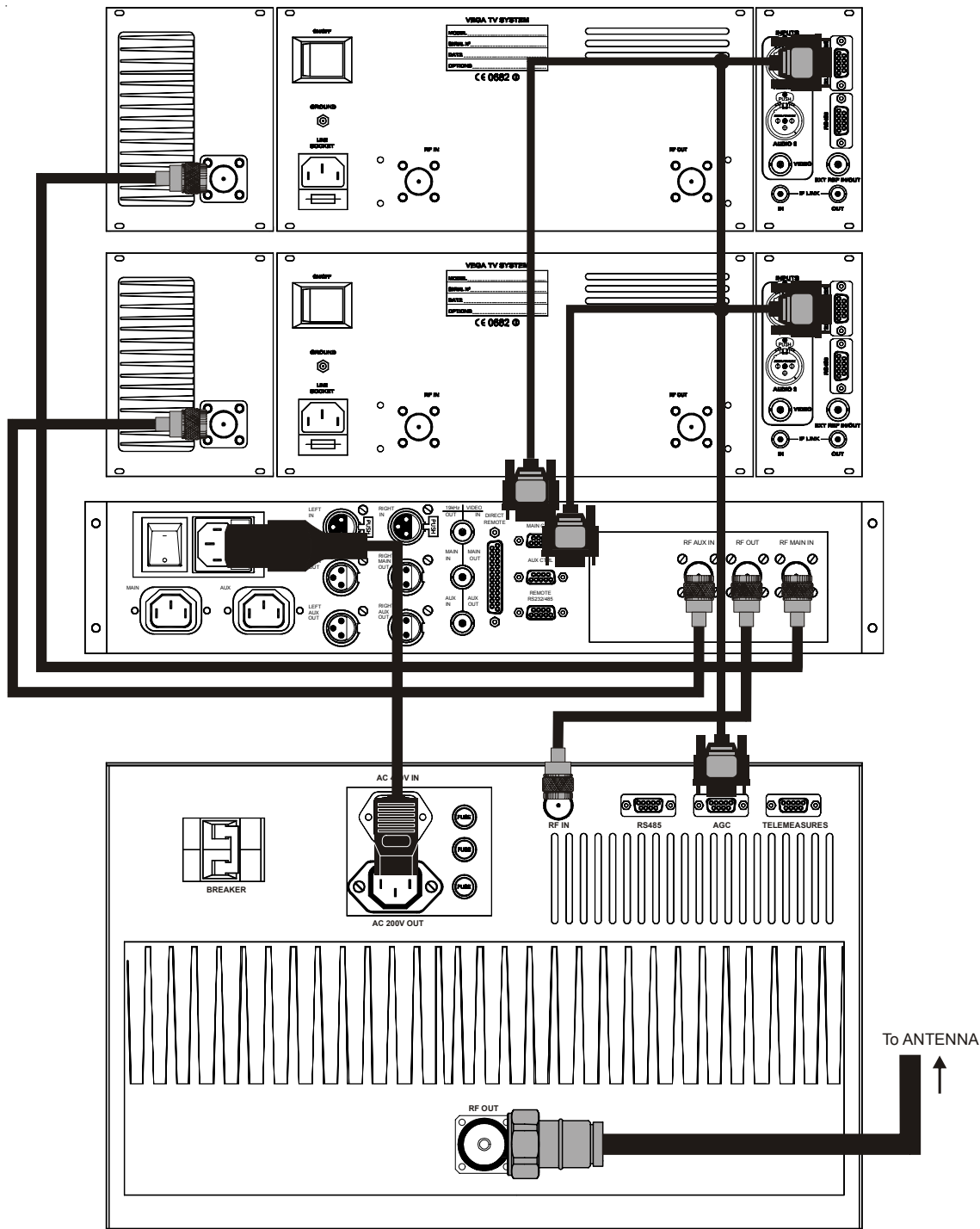
Before fully powering the equipment, check that the output connections of the coaxial cable to the antenna system are working.

In order to this it is possible to check the indication of the Reflected Power at low power levels. Only if the SWR indication on the display is 0, the output power can be slowly increased. At maximum output power, some watts might be shown as Reflected Power.

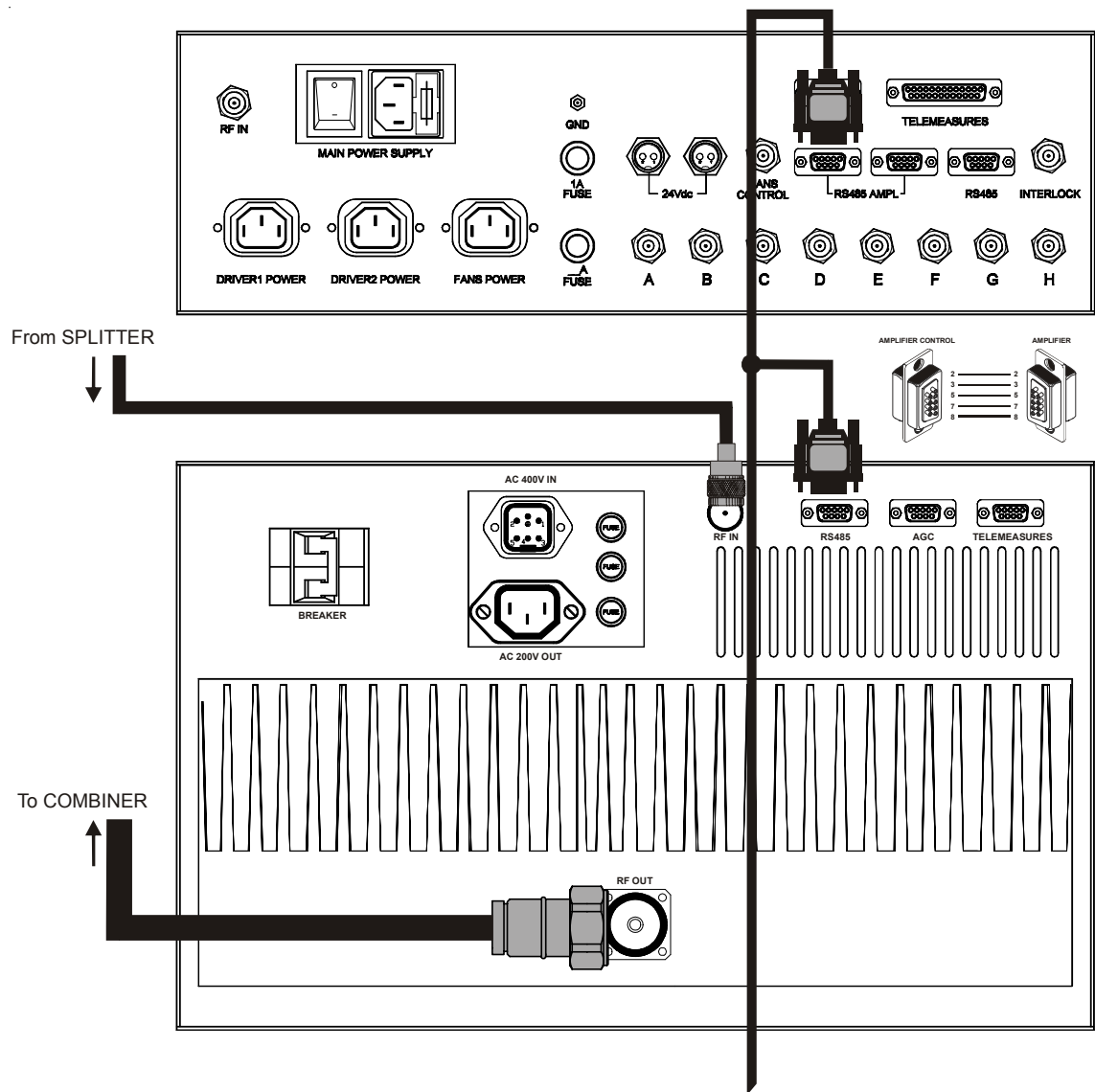
2.3 CONNECTION WITH VEGA TV TRANSMITTER



2.4 STAND-ALONE AMPLIFIER CONFIGURATION IN DUAL DRIVE VERSION



2.5 SLAVE MULTI-AMPLIFIER CONFIGURATION WITH AMPLIFIER CONTROL



DESCRIPTION

The Control Board SCH0223A manages the operational logic of the amplifier: switching on and off, power supply and fans, alarms and protections, remote control, human-machine interface. All of that is performed by a modern and powerful 16 bit micro-controller, which is the main part of the board.

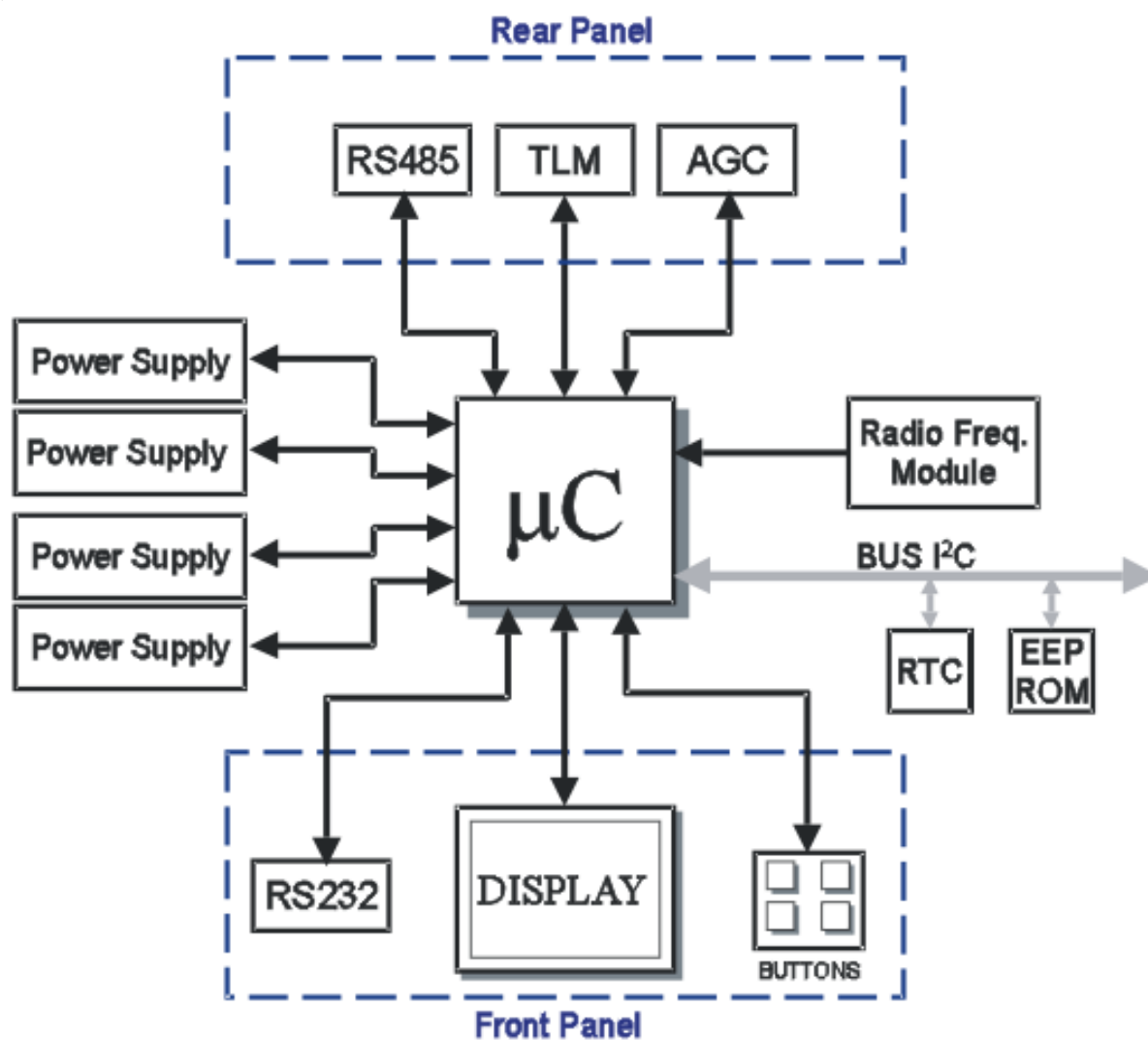
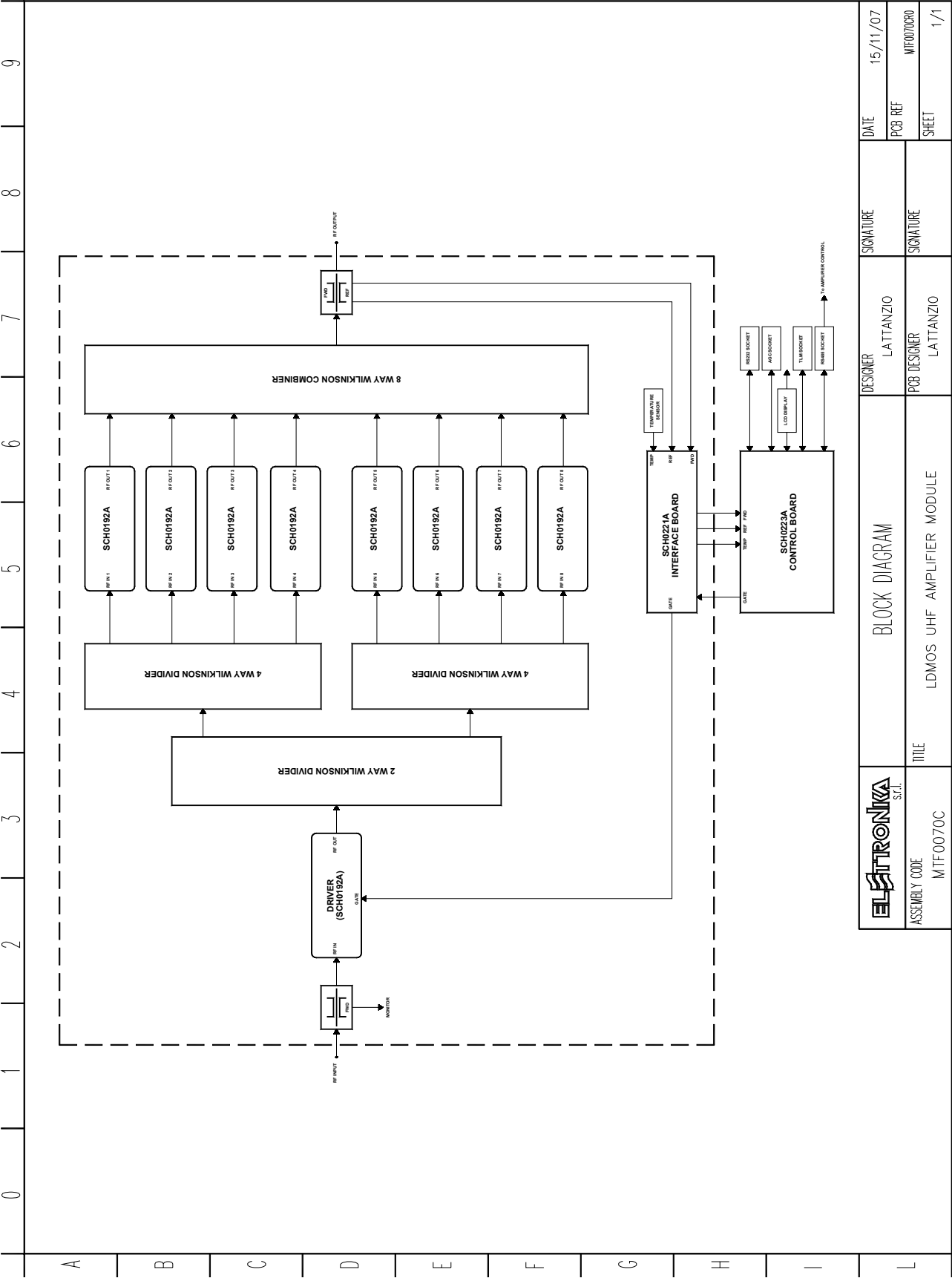
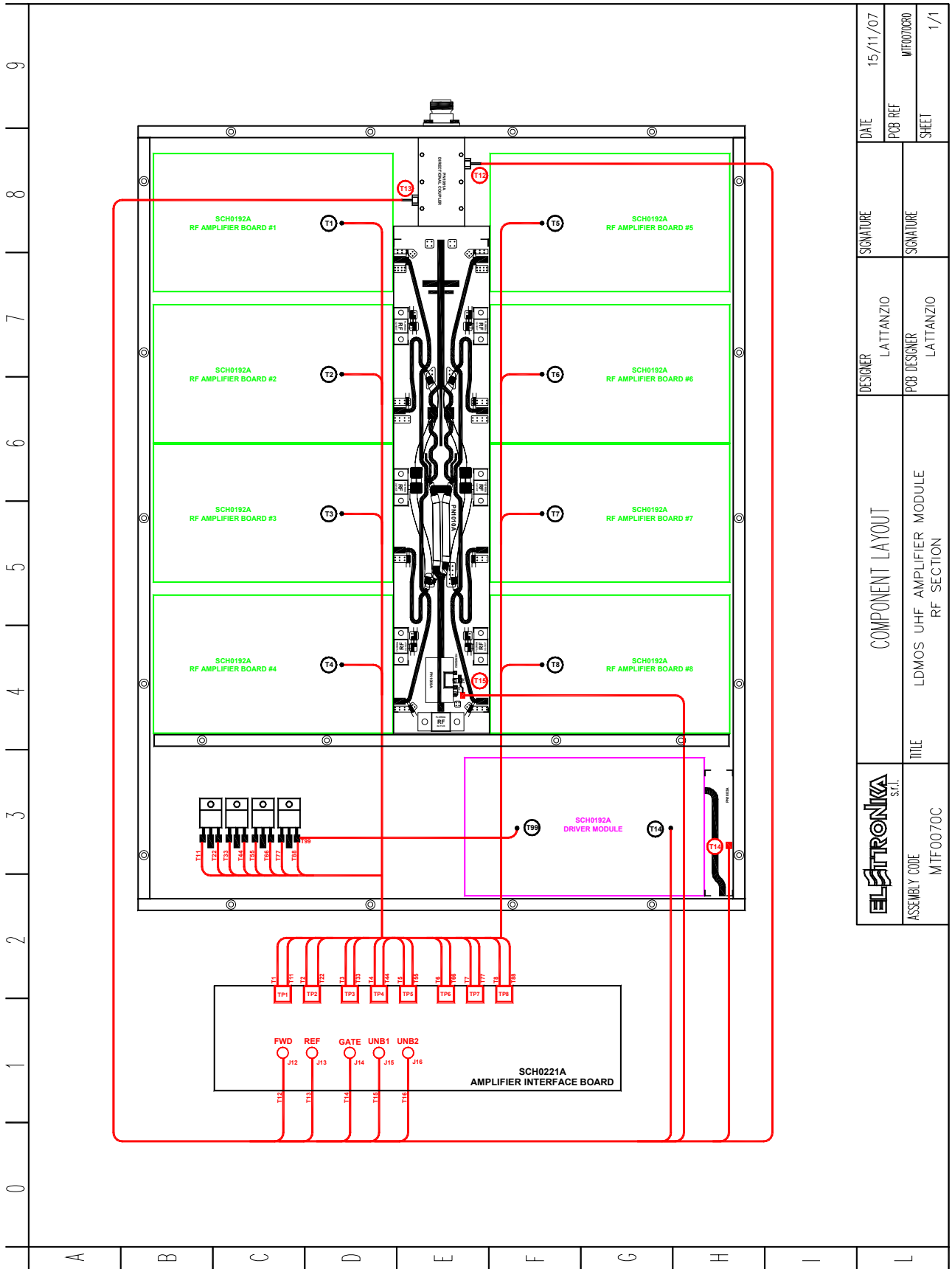


Figure 1: Simplified block diagram of the control and display board





	COMPONENT LAYOUT		DESIGNER	SIGNATURE	DATE
	TITLE		PCB DESIGNER	SIGNATURE	PCB REF
	ASSEMBLY CODE			SHEET	WIF0070C90
LDMOS UHF AMPLIFIER MODULE RF SECTION				1/1	