SCHEMATICS

ITEM	DRAW NUMBER	DESCRIPTION	5kW VERSION	20kW VERSION	5kW/AC VERSION	20kW/AC VERSION	20kW/MOT VERSION
1	74202D–5kW	INTERCONNECTIONS 5kW	YES	NO	NO	NO	NO
2	74202D–5kW–AC	INTERCONNECTIONS 5kW WITH ACTIVE COOLING	NO	NO	YES	NO	NO
3	74202D–20kW	INTERCONNECTIONS 20kW	NO	YES	NO	NO	NO
4	74202D–20kW–AC	INTERCONNECTIONS 20kW WITH ACTIVE COOLING	NO	NO	NO	YES	NO
5	74202D–20kW–MOT	INTERCONNECTIONS 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
6	74203C–5kW	TROLLEY 5kW	YES	NO	YES	NO	NO
7	74203C–20kW	TROLLEY 20kW	NO	YES	NO	YES	NO
8	74203C–20kW–MOT	TROLLEY 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
9	74204B–5kW	POWER SUPPLY CIRCUIT 5kW	YES	NO	YES	NO	NO
10	74204B–20kW	POWER SUPPLY CIRCUIT 20kW	NO	YES	NO	YES	NO
11	74204B–20kW–MOT	POWER SUPPLY CIRCUIT 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
12	74205–5kW	X–RAY POWER CIRCUIT 5kW	YES	NO	NO	NO	NO
13	74205–5kW–AC	X–RAY POWER CIRCUIT 5kW WITH ACTIVE COOLING	NO	NO	YES	NO	NO
14	74205–20kW	X–RAY POWER CIRCUIT 20kW	NO	YES	NO	NO	YES
15	74205–20kW–AC	X–RAY POWER CIRCUIT 20kW WITH ACTIVE COOLING	NO	NO	NO	YES	NO
16	74206A	CTBK–HW BOARD (B1)	YES	YES	NO	NO	NO
17	74206A–AC	CTBK–HW BOARD (B1) WITH ACTIVE COOLING	NO	NO	YES	YES	NO
18	74206A–MOT	CTBK–HW BOARD (B1) WITH MOTORIZATION	NO	NO	NO	NO	YES
19	74207A	CTBK–HW BOARD (B1)	YES	YES	YES	YES	YES
20	74208	CTBK–HW BOARD (B1)	YES	YES	YES	YES	YES
21	74209–5kW	CTBK–HW BOARD (B1) 5kW	YES	NO	YES	NO	NO
22	74209–20kW	CTBK–HW BOARD (B1) 20kW	NO	YES	NO	YES	NO
23	74209–20kW–MOT	CTBK–HW BOARD (B1) 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
24	74210–5kW	CTBK–HW BOARD (B1) 5kW	YES	NO	YES	NO	NO
25	74210–20kW	CTBK–HW BOARD (B1) 20kW	NO	YES	NO	YES	NO
26	74210–20kW–MOT	CTBK–HW BOARD (B1) 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
27	74211B	CTBK–HW BOARD (B1)	YES	YES	YES	YES	NO
28	74211B–MOT	CTBK–HW BOARD (B1) WITH MOTORIZATION	NO	NO	NO	NO	YES
29	74212	CTBK–HW BOARD (B1)	YES	YES	YES	YES	YES
30	74213	UP/DOWN MOTOR CONTROL BOARD	YES	YES	YES	YES	NO
31	74214	I.R. REMOTE CONTROL BOARD	YES	YES	YES	YES	YES
32	74215	CHOPPER CIRCUIT	NO	YES	NO	YES	YES
33	74216	CHOPPER CIRCUIT	NO	YES	NO	YES	YES
34	74217	CHOPPER CIRCUIT	NO	YES	NO	YES	YES
35	74218	ACTIVE COOLING AFPC 00 CONTROL BOARD	NO	NO	YES	YES	NO
36	74219–MOT	MOTORIZED CONTROL AFMC 00 BOARD	NO	NO	NO	NO	YES
37	74220–MOT	MOTORIZED CONTROL AFMC 00 BOARD	NO	NO	NO	NO	YES
38	74221–MOT	MOTORIZED CONTROL AFPM 00 BOARD	NO	NO	NO	NO	YES
39	74222–MOT	MOTORIZED CONTROL AFPM 00 BOARD	NO	NO	NO	NO	YES
40	74223–MOT	MOTOR DRIVER LAYOUT	NO	NO	NO	NO	YES

PCB LAYOUT

ITEM	DRAW NUMBER	DESCRIPTION	5kW VERSION	20kW VERSION	5kW/AC VERSION	20kW/AC VERSION	20kW/MOT VERSION
1	74301B	TROLLEY LAYOUT	YES	YES	YES	YES	YES
2	74302	TROLLEY POWER SUPPLY	YES	YES	YES	YES	YES
3	74303E	VIDEO PROCESSOR LAYOUT	YES	YES	YES	YES	YES
4	74304A	C–ARM LAYOUT 5kW	YES	NO	NO	NO	NO
5	74304A–AC	C–ARM LAYOUT 5kW WITH ACTIVE COOLING	NO	NO	YES	NO	NO
6	74305A	C–ARM LAYOUT 20kW	NO	YES	NO	NO	NO
7	74305A–AC	C–ARM LAYOUT 20kW WITH ACTIVE COOLING	NO	NO	NO	YES	NO
8	74305A–MOT	C–ARM LAYOUT 20kW WITH MOTORIZATION	NO	NO	NO	NO	YES
9	74306	UP/DOWN MOTOR LAYOUT	YES	YES	YES	YES	NO
10	74306–MOT	UP/DOWN MOTOR LAYOUT WITH MOTORIZATION	NO	NO	NO	NO	YES
11	74307	CONTROL PANEL LAYOUT	YES	YES	YES	YES	YES
12	74308	X–RAY GENERATOR LAYOUT	YES	YES	YES	YES	YES
13	74309	S219 BOARD (X–RAY GEN.)	YES	YES	YES	YES	YES
14	74310	S83 BOARD (X–RAY TUBE)	YES	YES	YES	YES	YES
15	74310–AC	PSM26 BOARD (X–RAY TUBE) WITH ACTIVE COOLING	NO	NO	YES	YES	NO
16	74311	CHOPPER LAYOUT	NO	YES	NO	YES	YES
17	74312	FLAT PANEL DETECTOR LAYOUT	YES	YES	YES	YES	YES
18	74313	MOTOR DRIVER LAYOUT	NO	NO	NO	NO	YES
19	7401100B	B1 BOARD (CTBK–HW)	YES	YES	YES	YES	YES
20	1910010A	B2 BOARD (ASAC 01)	YES	YES	YES	YES	NO
21	7401200	B3 BOARD (CTIR–HW)	YES	YES	YES	YES	YES
22	4401100A	B4 BOARD (15RkLC 00)	NO	YES	NO	YES	YES
23	4401400A	B5 BOARD (15RkLCP 00)	NO	YES	NO	YES	YES
24	4401500A	B6 BOARD (15RkLCF 00)	NO	YES	NO	YES	YES
25	4401700	B7 BOARD (15RkVC 00)	NO	YES	NO	YES	YES
26	5901500–5901400	B8 and B9 BOARDS (RkOO 00 and RkUD 00)	YES	YES	YES	YES	YES
27	7401300	B10 BOARD (CTLD–HW)	YES	YES	YES	YES	YES
28	7401500	B11 BOARD (AFPC 00)	NO	NO	YES	YES	NO
29	7401600	B12 BOARD (AFMC 00)	NO	NO	NO	NO	YES
30	7401700	B13 BOARD (AFPM 00)	NO	NO	NO	NO	YES
31	6610110B	B20 BOARD (ASPS 02)	YES	YES	YES	YES	YES

ATS Applicazione Tecnologie Speciali srl

ARCO FP

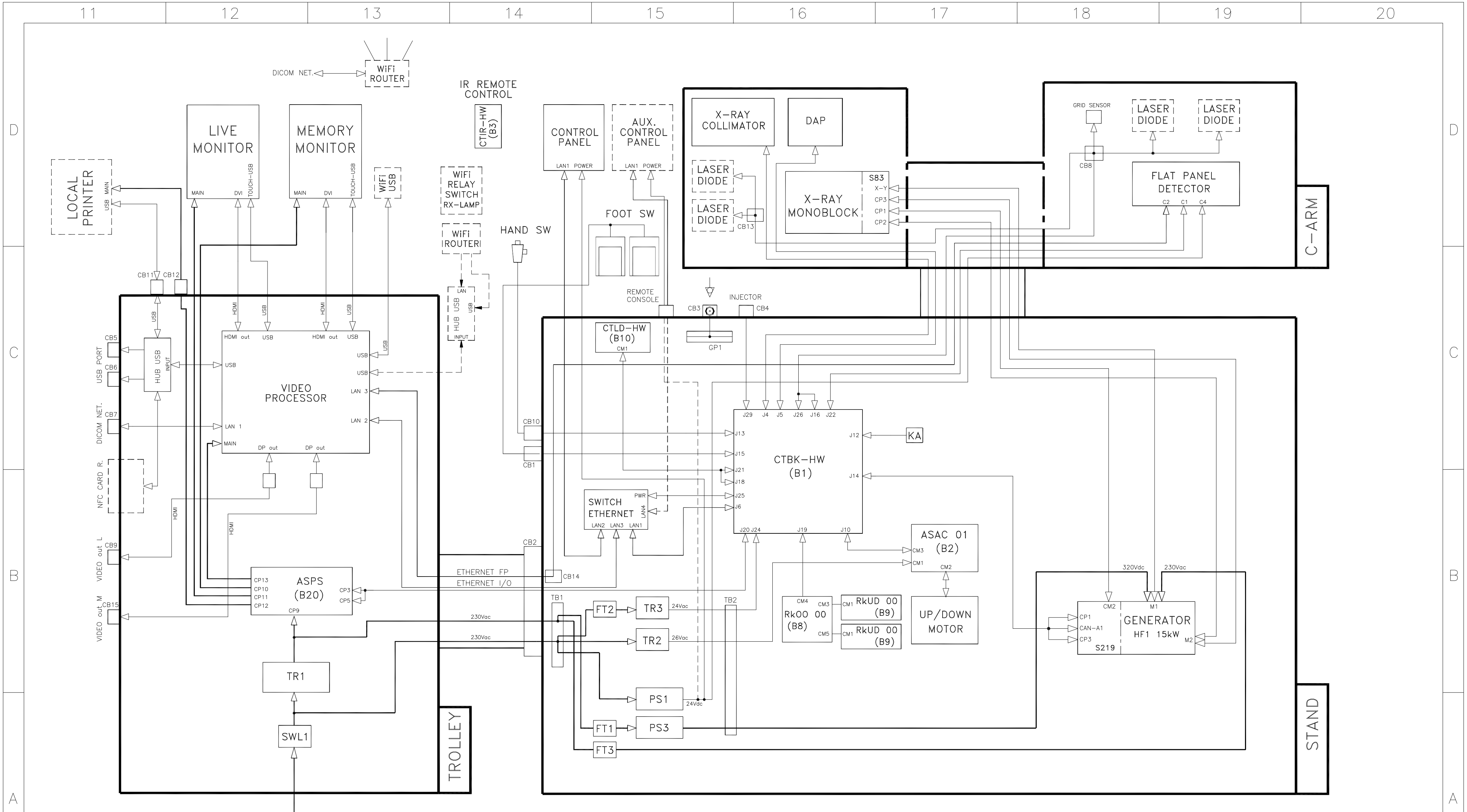
DRAWING LIST

n° 74 02 11

Sheet

Dwn by D.T. Date 12-06-2024 Replace 74 02 10 Replaced by

Approved P.V. Date 12-06-2024 Valid from 03 089 74 24 Up to



Applicazione Tecnologie Speciali srl

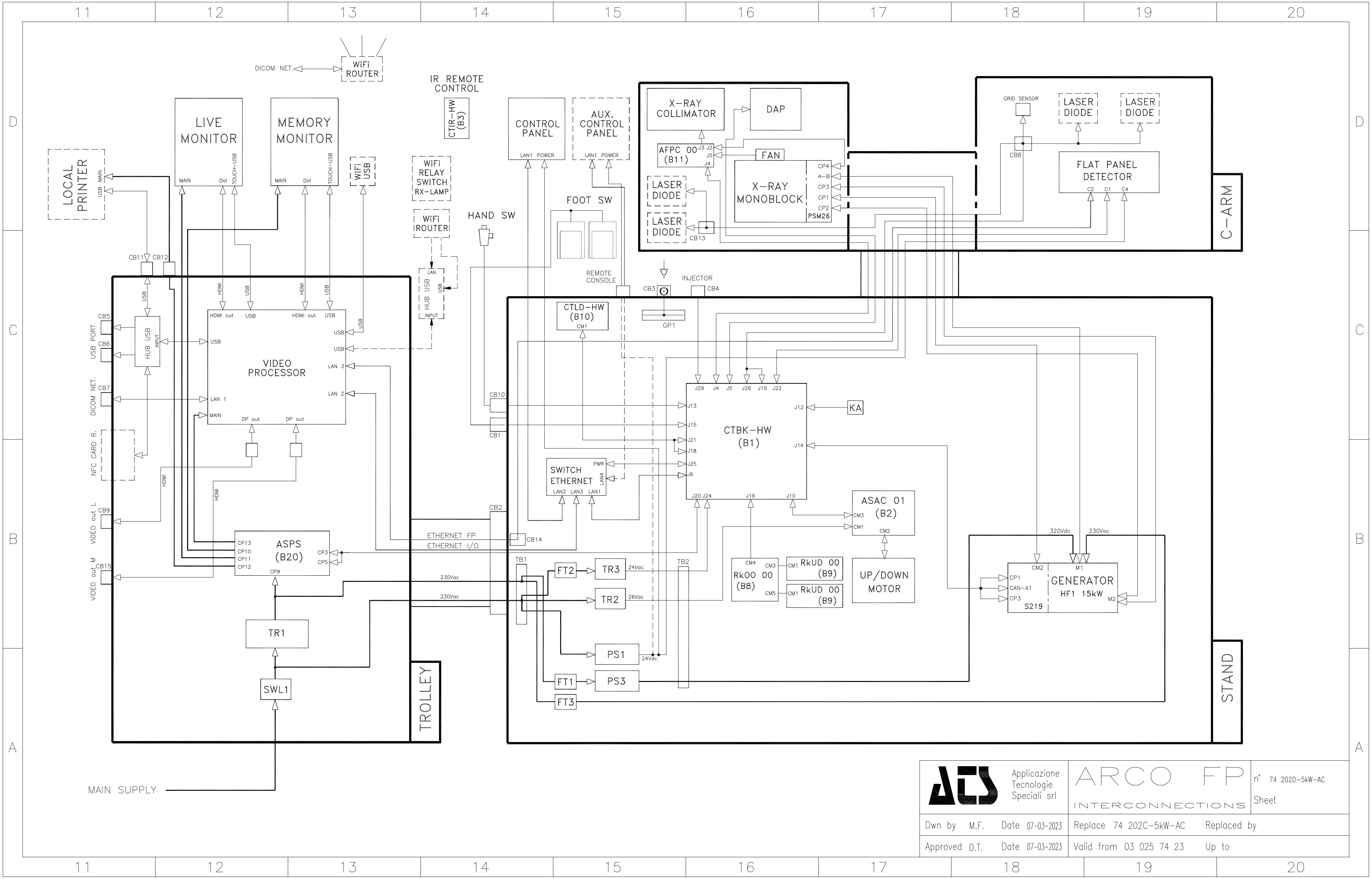
ARCO FP

INTERCONNECTIONS

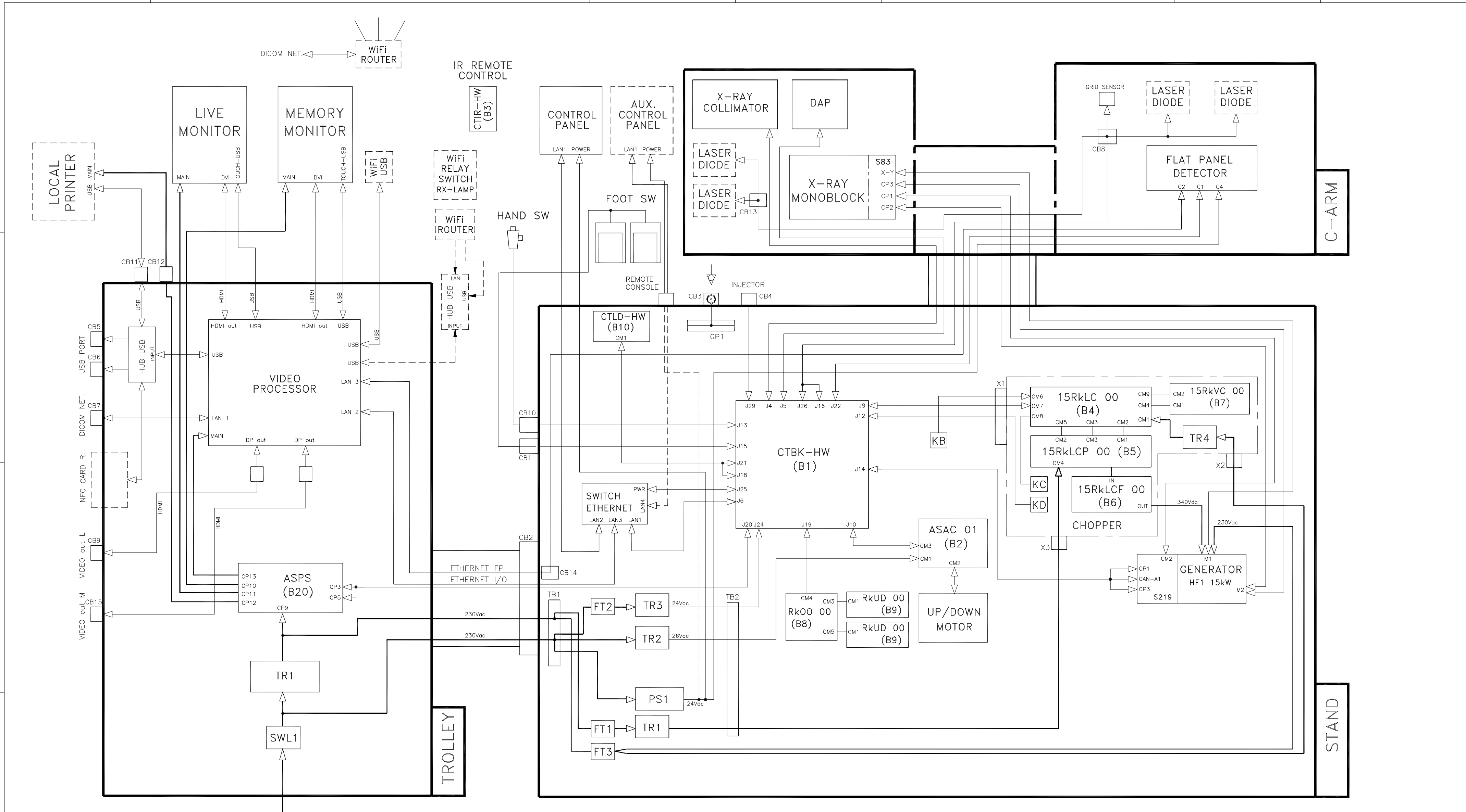
n° 74 202D-5kW

Sheet

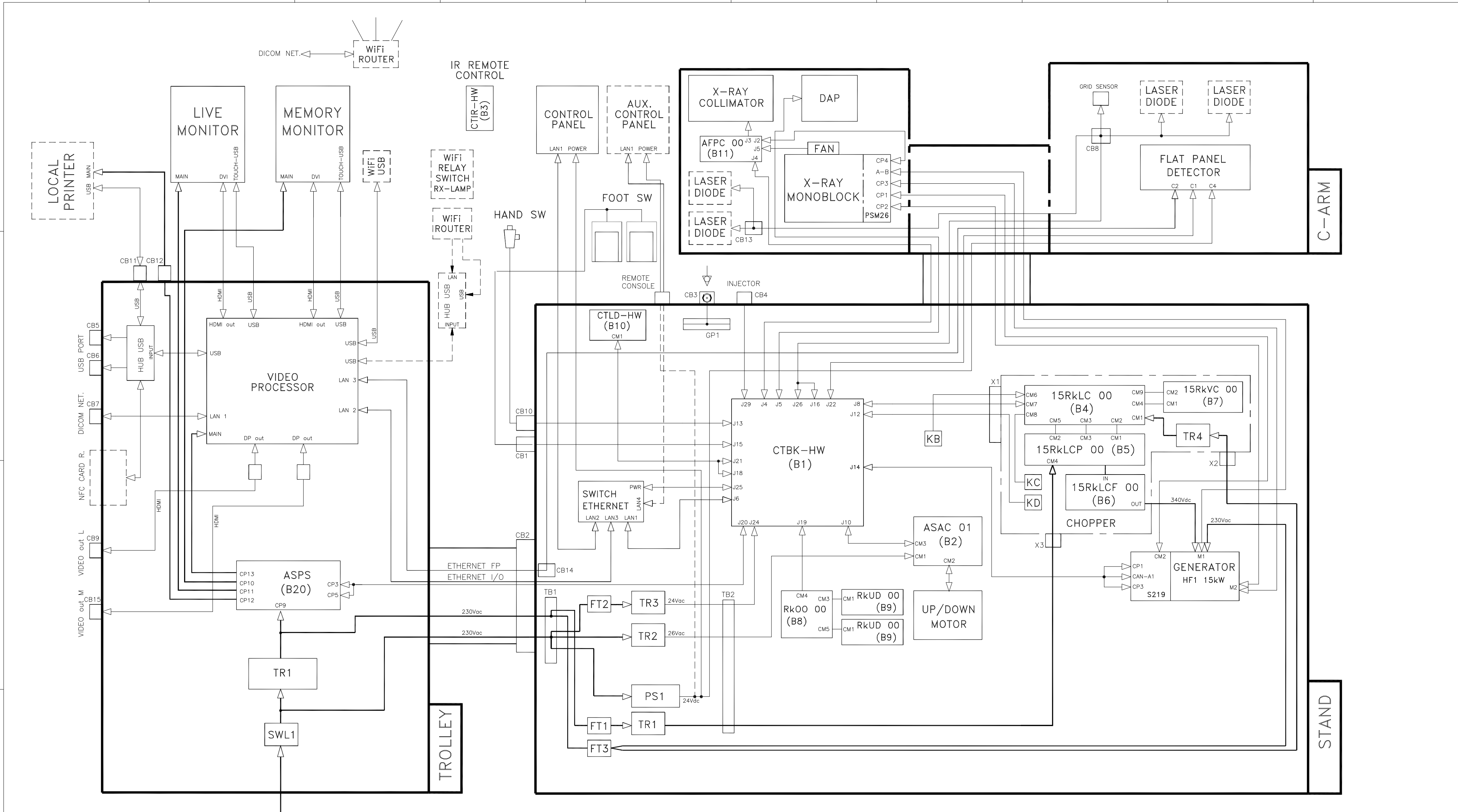
Dwn by	M.F.	Date 07-03-2023	Replace 74 202C-5kW	Replaced by	
Approved	D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to	



WiFi ROUTER
DICOM NET.
IR REMOTE CONTROL
CTIR-HW (B3)
LIVE MONITOR
MEMORY MONITOR
WiFi USB
LOCAL PRINTER
WiFi RELAY SWITCH RX-LAMP
WiFi ROUTER
HAND SW
CONTROL PANEL
AUX. CONTROL PANEL
FOOT SW
X-RAY COLLIMATOR
DAP
AFPC 00 (B11)
FAN
LASER DIODE
X-RAY MONOBLOCK
PSM26
GRID SENSOR
FLAT PANEL DETECTOR
C-ARM
HUB USB
VIDEO PROCESSOR
USB PORT
DICOM NET.
NFC CARD R.
VIDEO out L
VIDEO out M
ASPS (B20)
TR1
SWL1
TROLLEY
MAIN SUPPLY
REMOTE CONSOLE
INJECTOR
CTLD-HW (B10)
GP1
CTBK-HW (B1)
KA
SWITCH ETHERNET
ETHERNET FP
ETHERNET I/O
ASAC 01 (B2)
GENERATOR HF1 15kW
S219
UP/DOWN MOTOR
Rk00 00 (B8)
RkUD 00 (B9)
RkUD 00 (B9)
TR3
TR2
PS1
PS3
FT1
FT2
FT3
230Vac
24Vac
26Vac
320Vdc
STAND
Applicazione Tecnologie Speciali srl
ARCO FP
INTERCONNECTIONS
n° 74 202D-5kW-AC
Sheet
Dwn by M.F. Date 07-03-2023
Replace 74 202C-5kW-AC
Replaced by
Approved D.T. Date 07-03-2023
Valid from 03 025 74 23
Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP INTERCONNECTIONS		n° 74 202D-20kW Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 202C-20kW	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



ATS Applicazione Tecnologie Speciali srl

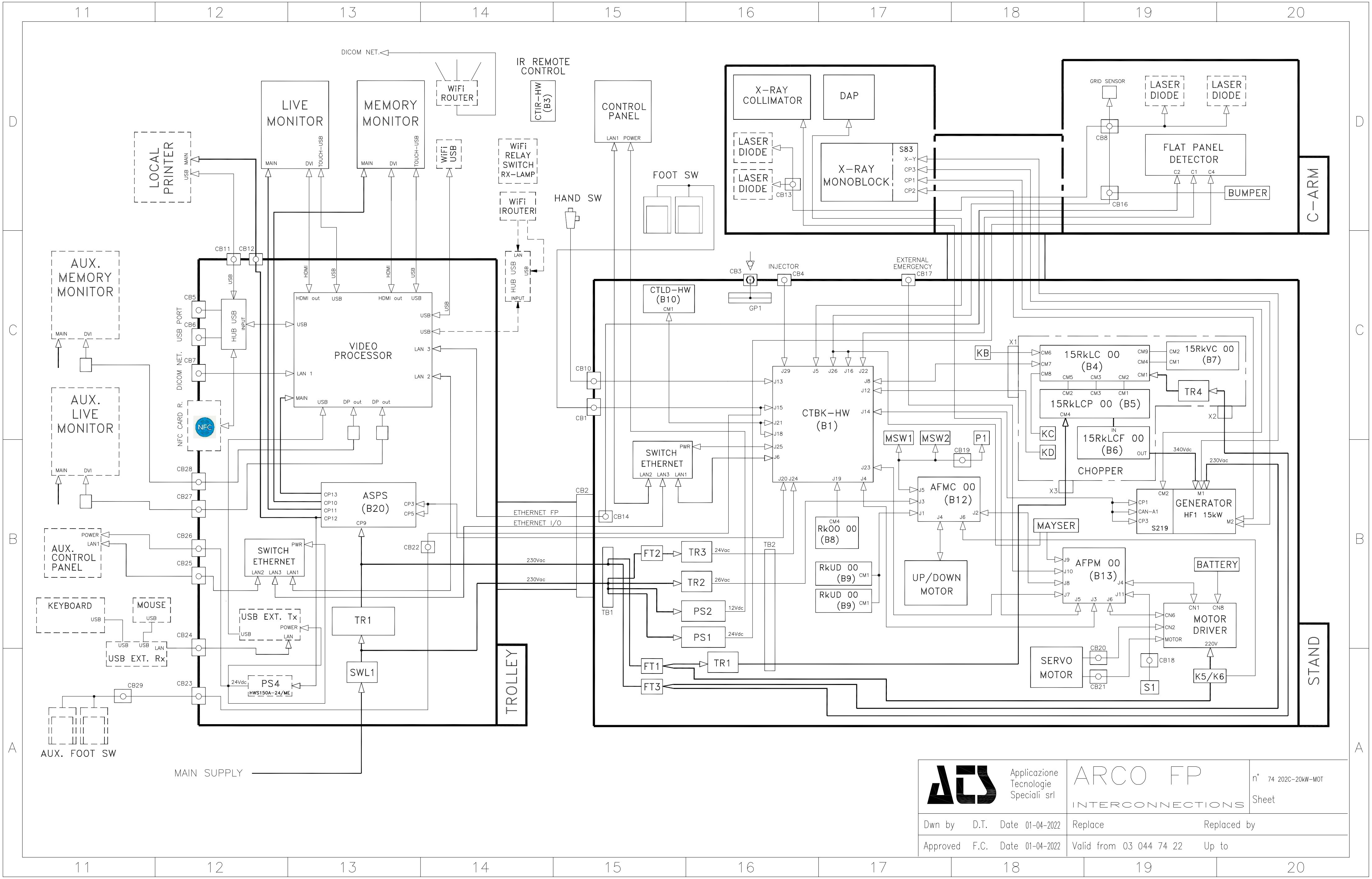
ARCO FP

INTERCONNECTIONS

n° 74 202D-20kW-AC

Sheet

Dwn by M.F.	Date 07-03-2023	Replace 74 202C-20kW-AC	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



ATS Applicazione Tecnologie Speciali srl

ARCO FP

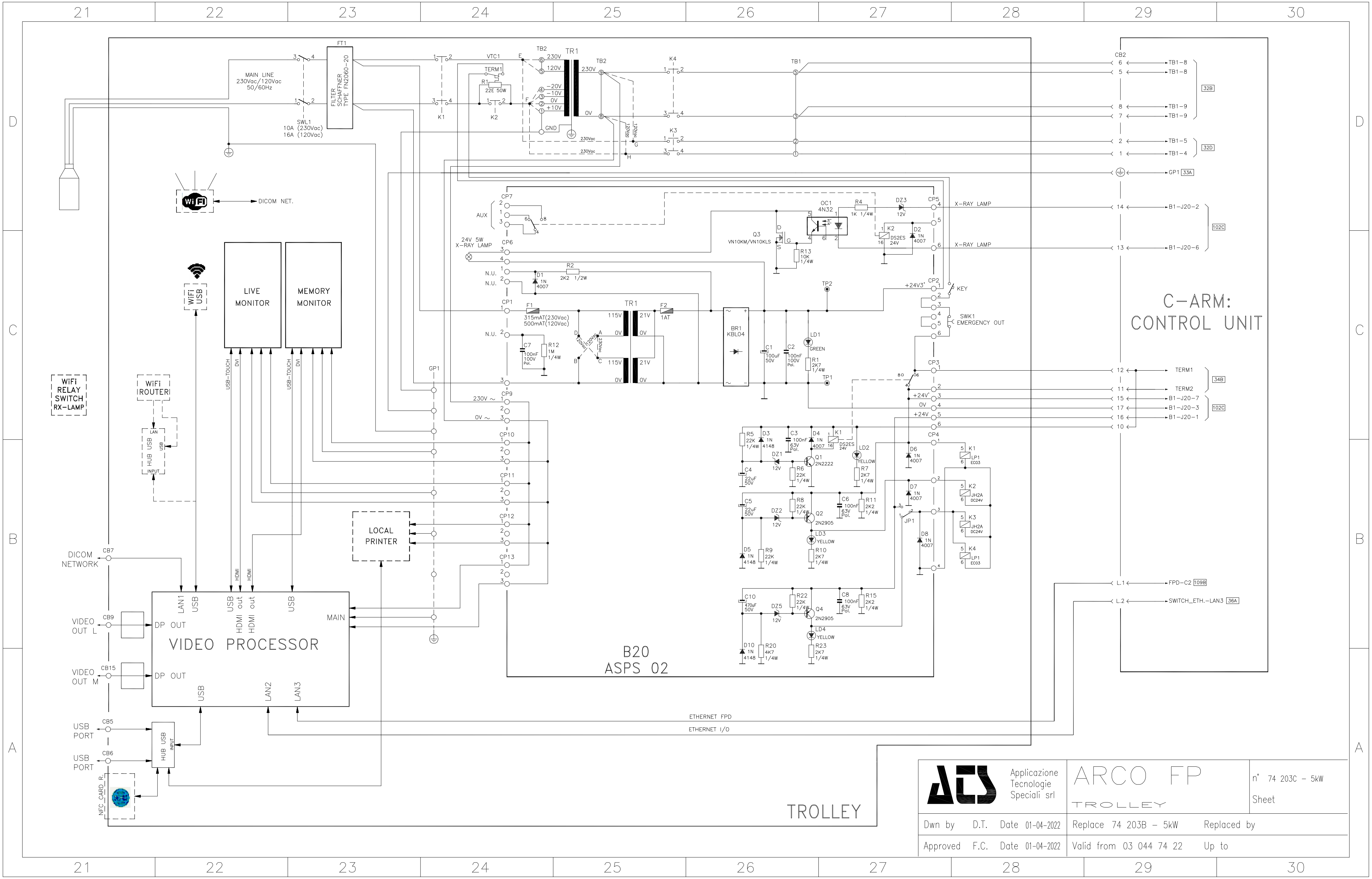
INTERCONNECTIONS

n° 74 202C-20kW-MOT

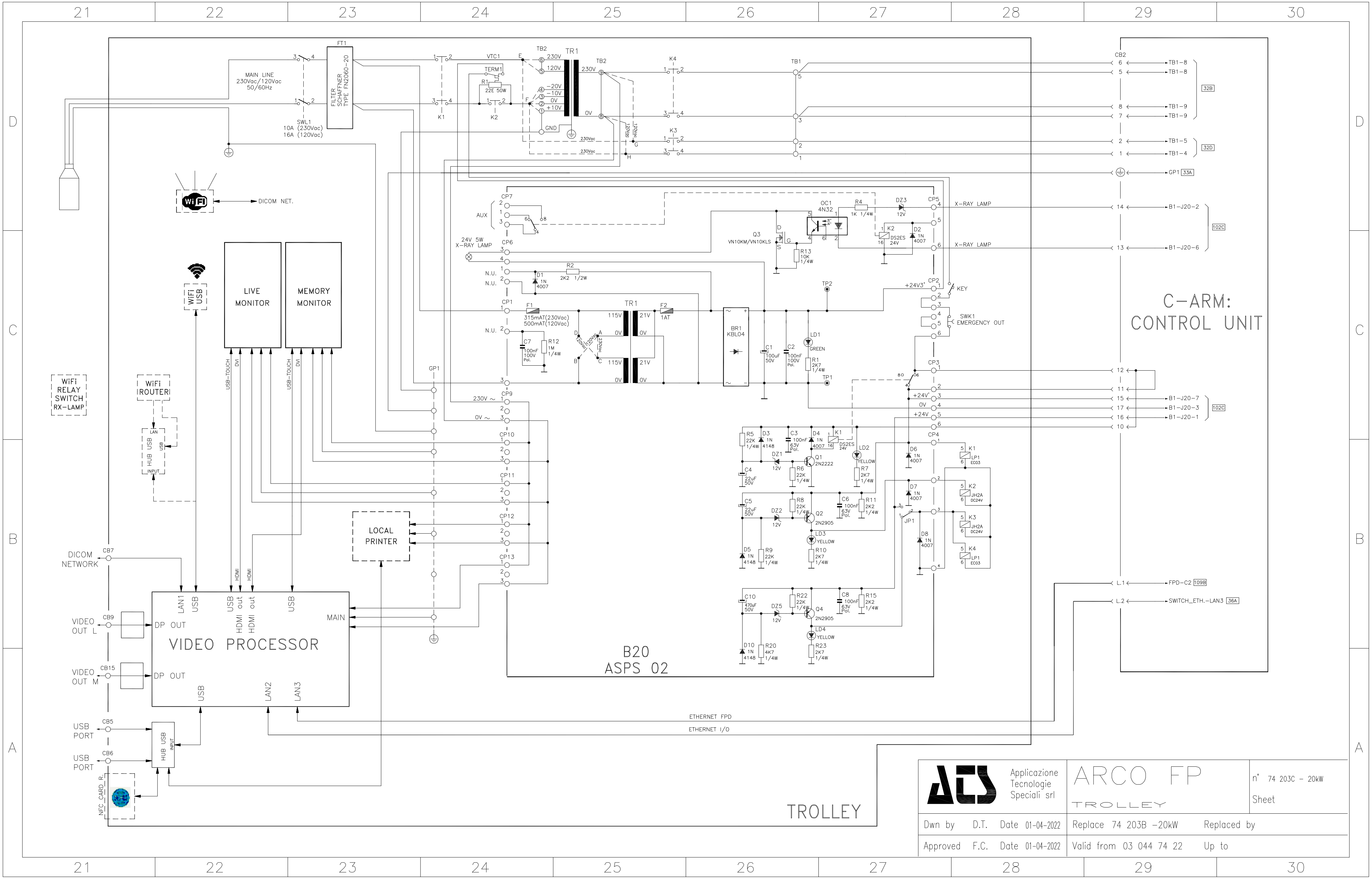
Sheet

Dwn by D.T. Date 01-04-2022 Replace Replaced by

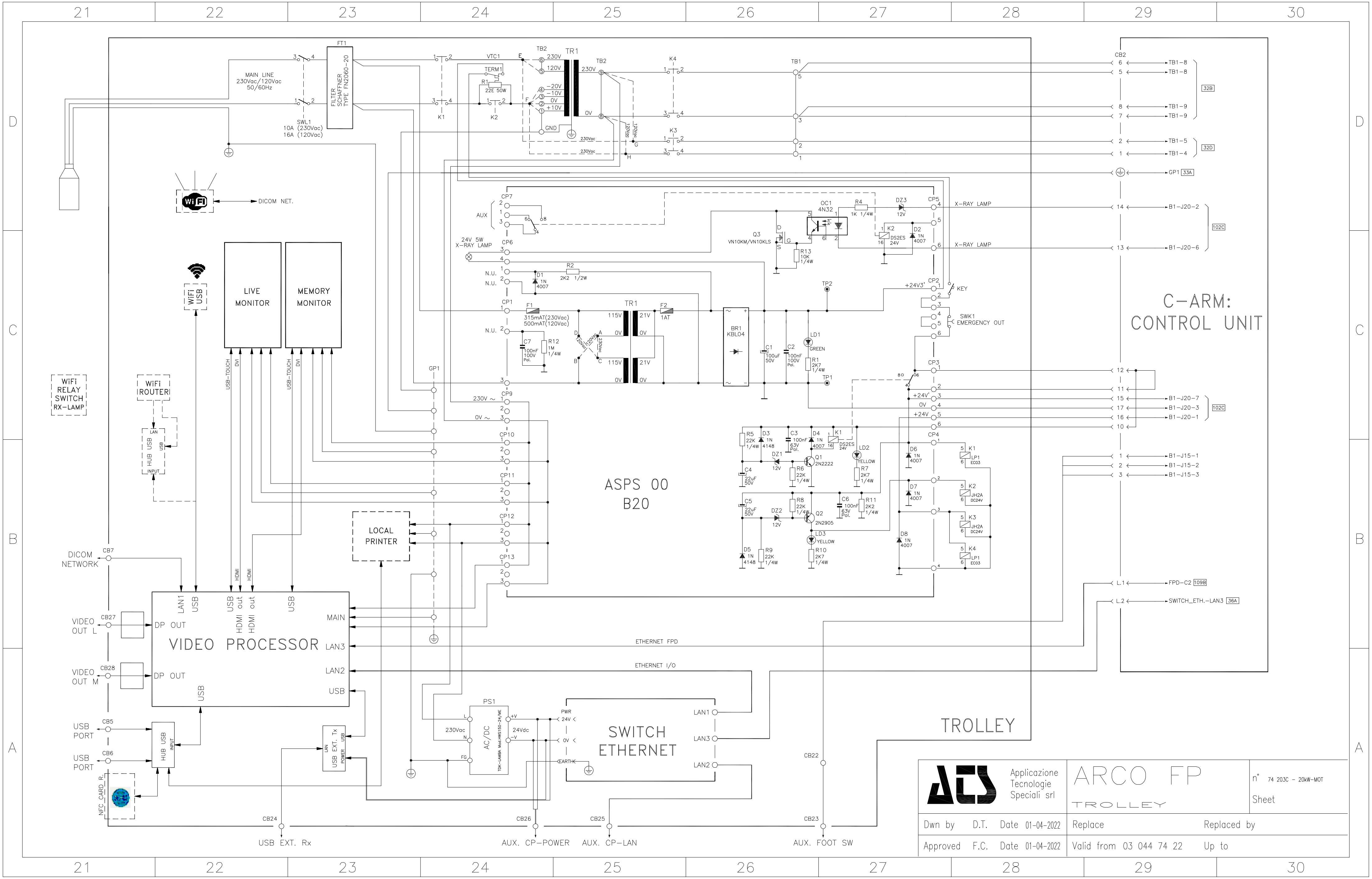
Approved F.C. Date 01-04-2022 Valid from 03 044 74 22 Up to

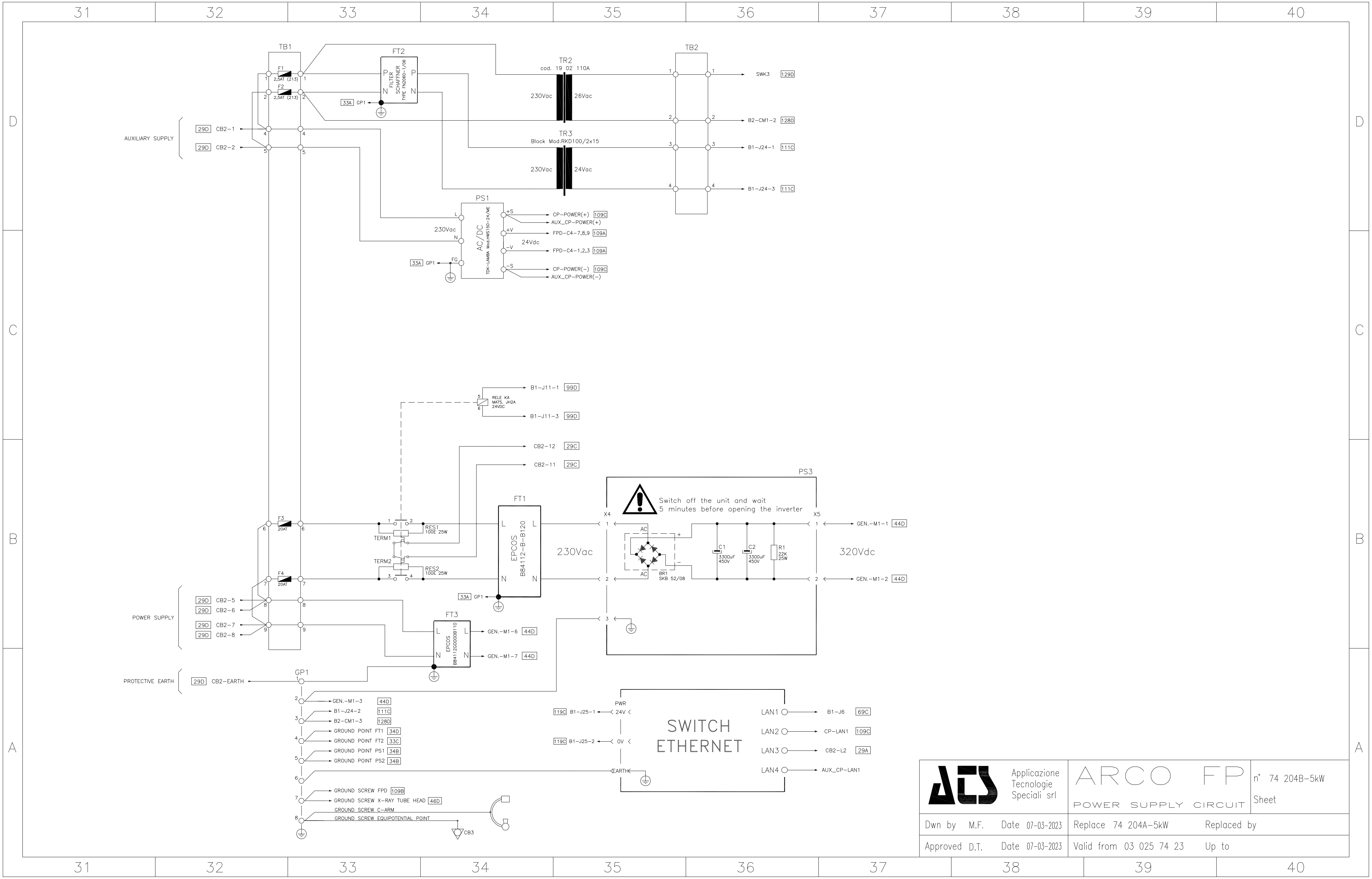


ATS	Applicazione Tecnologie Speciali srl	ARCO FP TROLLEY	n° 74 203C – 5kW Sheet
Dwn by D.T.	Date 01-04-2022	Replace 74 203B – 5kW	Replaced by
Approved F.C.	Date 01-04-2022	Valid from 03 044 74 22	Up to

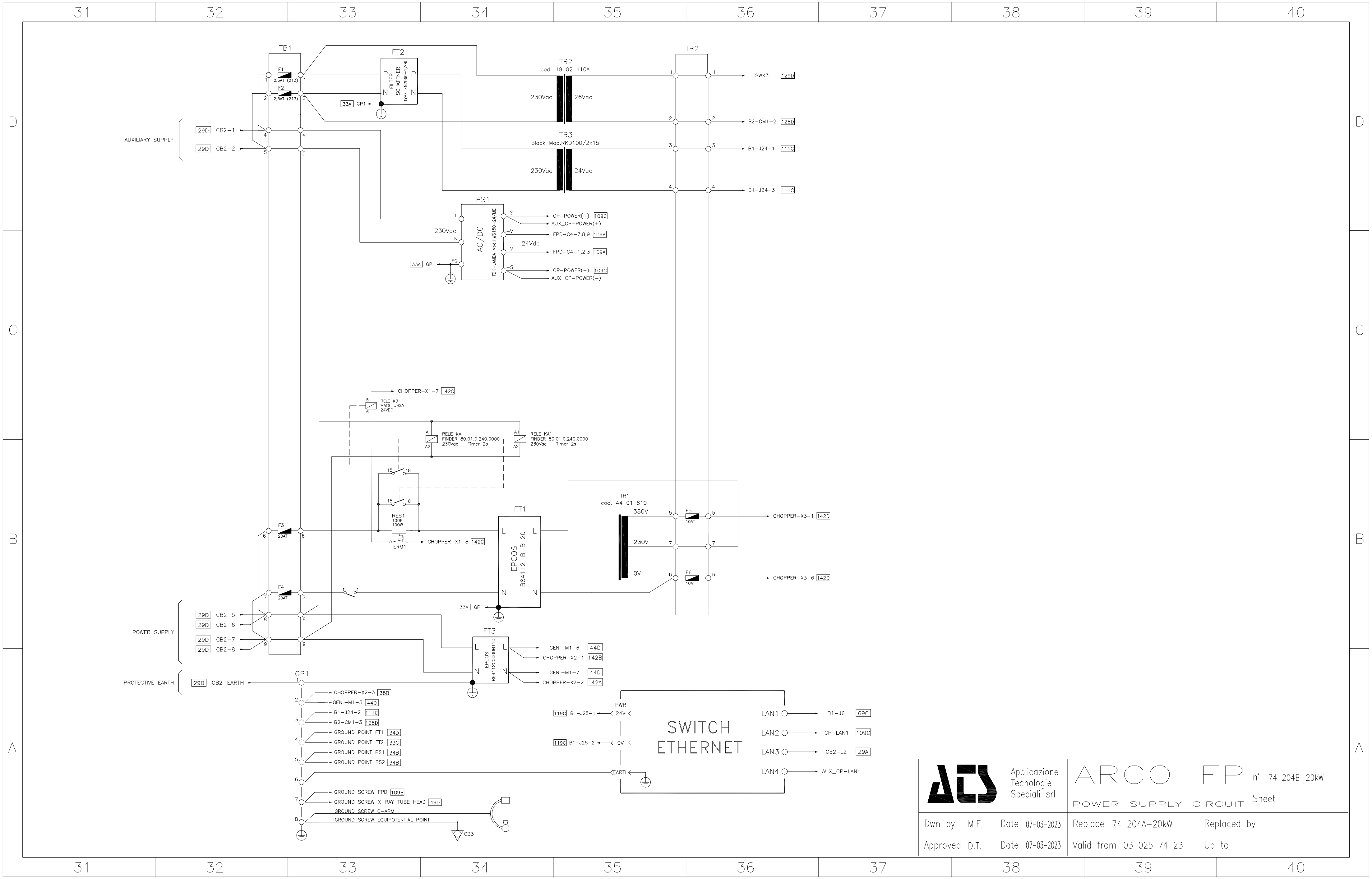


MAIN LINE
230Vac/120Vac
50/60Hz
SWL1
10A (230Vac)
16A (120Vac)
FT1
FILTER SCHAFFNER TYPE FN2060-20
K1
VTC1
TERM1
R1 22E 50W
K2
TB2
TR1
230V
120V
-20V
-10V
0V
+10V
GND
K4
K3
TB1
CB2
TB1-8
TB1-9
TB1-5
TB1-4
GP1
DICOM NET.
AUX
CP7
CP6
24V 5W X-RAY LAMP
N.U.
D1 1N 4007
R2 2K2 1/2W
Q3 VN10KM/VN10KLS
R13 10K 1/4W
OC1 4N32
R4 1K 1/4W
DZ3 12V
K2 DS2ES 24V
D2 1N 4007
CP5
X-RAY LAMP
B1-J20-2
B1-J20-6
TP2
+24V3'
CP2
KEY
SWK1 EMERGENCY OUT
CP1
F1 315mAT(230Vac) 500mAT(120Vac)
F2 1AT
115V
21V
BR1 KBL04
C1 100uF 50V
C2 100nF 100V Pol.
LD1 GREEN
R1 2K7 1/4W
TP1
C7 100nF 100V Pol.
R12 1M 1/4W
CP3
+24V'
+24V
B1-J20-7
B1-J20-3
B1-J20-1
LIVE MONITOR
MEMORY MONITOR
USB-TOUCH
DVI
WiFi USB
WiFi RELAY SWITCH RX-LAMP
WiFi ROUTER
HUB USB
LAN
INPUT
GP1
230V ~
0V ~
CP9
CP10
CP11
CP12
CP13
LOCAL PRINTER
CP4
K1 LP1 EC03
K2 JH2A DC24V
K3 JH2A DC24V
K4 LP1 EC03
JP1
D6 1N 4007
D7 1N 4007
D8 1N 4007
R5 22K 1/4W
D3 1N 4148
C3 100nF 63V Pol.
D4 1N 4007
K1 DS2ES 24V
LD2 YELLOW
R7 2K7 1/4W
DZ1 12V
Q1 2N2222
R6 22K 1/4W
C4 22uF 50V
C5 22uF 50V
R8 22K 1/4W
C6 100nF 63V Pol.
R11 2K2 1/4W
DZ2 12V
Q2 2N2905
LD3 YELLOW
R10 2K7 1/4W
D5 1N 4148
R9 22K 1/4W
C10 470uF 50V
R22 22K 1/4W
C8 100nF 63V Pol.
R15 2K2 1/4W
DZ5 12V
Q4 2N2905
LD4 YELLOW
R23 2K7 1/4W
D10 1N 4148
R20 4K7 1/4W
B20
ASPS 02
C-ARM:
CONTROL UNIT
FPD-C2
SWITCH_ETH.-LAN3
DICOM NETWORK
CB7
VIDEO OUT L
CB9
VIDEO OUT M
CB15
DP OUT
VIDEO PROCESSOR
LAN1
USB
HDMI out
MAIN
LAN2
LAN3
ETHERNET FPD
ETHERNET I/O
USB PORT
CB5
CB6
NFC_CARD_R
TROLLEY
Applicazione Tecnologie Speciali srl
ARCO FP
TROLLEY
n° 74 203C - 20kW
Sheet
Dwn by D.T. Date 01-04-2022
Approved F.C. Date 01-04-2022
Replace 74 203B -20kW
Replaced by
Valid from 03 044 74 22
Up to

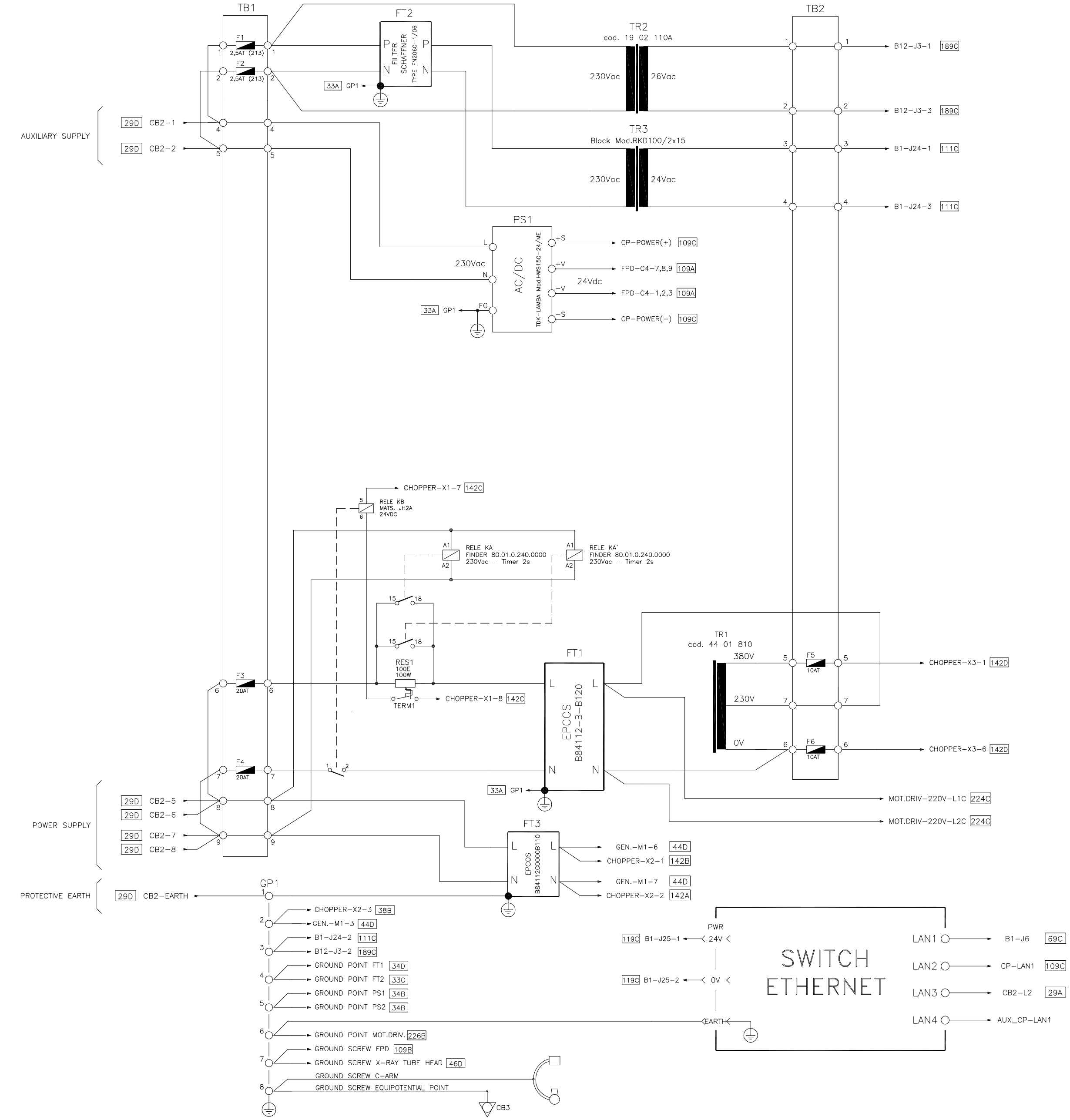

21 22 23 24 25 26 27 28 29 30
MAIN LINE
230Vac/120Vac
50/60Hz
SWL1
10A (230Vac)
16A (120Vac)
FT1
FILTER SCHAFFNER TYPE FN2060-20
K1
VTC1
TERM1
R1
22E 50W
K2
TB2
TR1
230V
120V
-20V
-10V
0V
+10V
GND
K4
K3
TB1
DICOM NET.
AUX
CP7
24V 5W X-RAY LAMP
CP6
N.U.
D1 1N 4007
R2 2K2 1/2W
Q3 VN10KM/VN10KLS
R13 10K 1/4W
OC1 4N32
R4 1K 1/4W
DZ3 12V
K2 DS2ES 24V
D2 1N 4007
CP5
X-RAY LAMP
CP2
+24V3'
KEY
SWK1 EMERGENCY OUT
TP2
CP1
F1 315mAT(230Vac) 500mAT(120Vac)
F2 1AT
115V
21V
C7 100nF 100V Pol.
R12 1M 1/4W
BR1 KBL04
C1 100uF 50V
C2 100nF 100V Pol.
LD1 GREEN
R1 2K7 1/4W
TP1
CP3
+24V'
+24V
CP4
K1 LP1 EC03
K2 JH2A DC24V
K3 JH2A DC24V
K4 LP1 EC03
D6 1N 4007
D7 1N 4007
D8 1N 4007
R5 22K 1/4W
D3 1N 4148
C3 100nF 63V Pol.
D4 1N 4007
K1 DS2ES 24V
LD2 YELLOW
DZ1 12V
Q1 2N2222
R6 22K 1/4W
R7 2K7 1/4W
C4 22uF 50V
C5 22uF 50V
R8 22K 1/4W
C6 100nF 63V Pol.
R11 2K2 1/4W
DZ2 12V
Q2 2N2905
LD3 YELLOW
R10 2K7 1/4W
D5 1N 4148
R9 22K 1/4W
ASPS 00
B20
LIVE MONITOR
MEMORY MONITOR
WiFi USB
WiFi RELAY SWITCH RX-LAMP
WiFi ROUTER
HUB USB
GP1
CP9 CP10 CP11 CP12 CP13
230V ~
0V ~
LOCAL PRINTER
DICOM NETWORK
CB7
VIDEO OUT L
CB27
VIDEO OUT M
CB28
DP OUT
VIDEO PROCESSOR
LAN1 USB USB HDMI out HDMI out USB
MAIN
LAN3
LAN2
USB PORT
CB5
CB6
NFC CARD R.
USB EXT. Tx
PS1
AC/DC
230Vac
24Vdc
SWITCH ETHERNET
LAN1 LAN3 LAN2
ETHERNET FPD
ETHERNET I/O
TROLLEY
CB24 USB EXT. Rx
CB26 AUX. CP-POWER
CB25 AUX. CP-LAN
CB22
CB23 AUX. FOOT SW
C-ARM: CONTROL UNIT
CB2
TB1-8
TB1-9
TB1-5
TB1-4
GP1 33A
32B
32D
B1-J20-2
B1-J20-6
102C
B1-J20-7
B1-J20-3
B1-J20-1
B1-J15-1
B1-J15-2
B1-J15-3
L.1 FPD-C2 109B
L.2 SWITCH_ETH.-LAN3 36A
ATS
Applicazione Tecnologie Speciali srl
ARCO FP
TROLLEY
n° 74 203C - 20kW-MOT
Sheet
Dwn by D.T. Date 01-04-2022
Approved F.C. Date 01-04-2022
Replace
Valid from 03 044 74 22
Replaced by
Up to



31 32 33 34 35 36 37 38 39 40
D C B A
TB1
FT2
FILTER SCHAFFNER TYPE FN2060-1/06
F1 2,5AT (213)
F2 2,5AT (213)
33A GP1
TR2
cod. 19 02 110A
230Vac
26Vac
TR3
Block Mod.RKD100/2x15
230Vac
24Vac
TB2
SWK3 129D
B2-CM1-2 128D
B1-J24-1 111C
B1-J24-3 111C
AUXILIARY SUPPLY
29D CB2-1
29D CB2-2
PS1
AC/DC
TDK-LAMBDA Mod.HWS150-24/ME
230Vac
24Vdc
33A GP1
CP-POWER(+) 109C
AUX_CP-POWER(+)
FPD-C4-7,8,9 109A
FPD-C4-1,2,3 109A
CP-POWER(-) 109C
AUX_CP-POWER(-)
B1-J11-1 99D
RELE KA MATS. JH2A 24VDC
B1-J11-3 99D
CB2-12 29C
CB2-11 29C
F3 20AT
F4 20AT
TERM1
TERM2
RES1 100E 25W
RES2 100E 25W
FT1
EPCOS B84112-B-B120
230Vac
33A GP1
PS3
Switch off the unit and wait 5 minutes before opening the inverter
X4
X5
BR1 SKB 52/08
C1 3300uF 450V
C2 3300uF 450V
R1 22K 25W
320Vdc
GEN.-M1-1 44D
GEN.-M1-2 44D
POWER SUPPLY
29D CB2-5
29D CB2-6
29D CB2-7
29D CB2-8
FT3
EPCOS B84112G0000B110
GEN.-M1-6 44D
GEN.-M1-7 44D
PROTECTIVE EARTH
29D CB2-EARTH
GP1
GEN.-M1-3 44D
B1-J24-2 111C
B2-CM1-3 128D
GROUND POINT FT1 34D
GROUND POINT FT2 33C
GROUND POINT PS1 34B
GROUND POINT PS2 34B
GROUND SCREW FPD 109B
GROUND SCREW X-RAY TUBE HEAD 46D
GROUND SCREW C-ARM
GROUND SCREW EQUIPOTENTIAL POINT
CB3
SWITCH ETHERNET
PWR
119C B1-J25-1 24V
119C B1-J25-2 0V
EARTH
LAN1 B1-J6 69C
LAN2 CP-LAN1 109C
LAN3 CB2-L2 29A
LAN4 AUX_CP-LAN1
Applicazione Tecnologie Speciali srl
ARCO FP
POWER SUPPLY CIRCUIT
n° 74 204B-5kW
Sheet
Dwn by M.F. Date 07-03-2023
Replace 74 204A-5kW
Replaced by
Approved D.T. Date 07-03-2023
Valid from 03 025 74 23
Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP POWER SUPPLY CIRCUIT		n° 74 204B-20kW Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 204A-20kW	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



ATS Applicazione Tecnologie Speciali srl

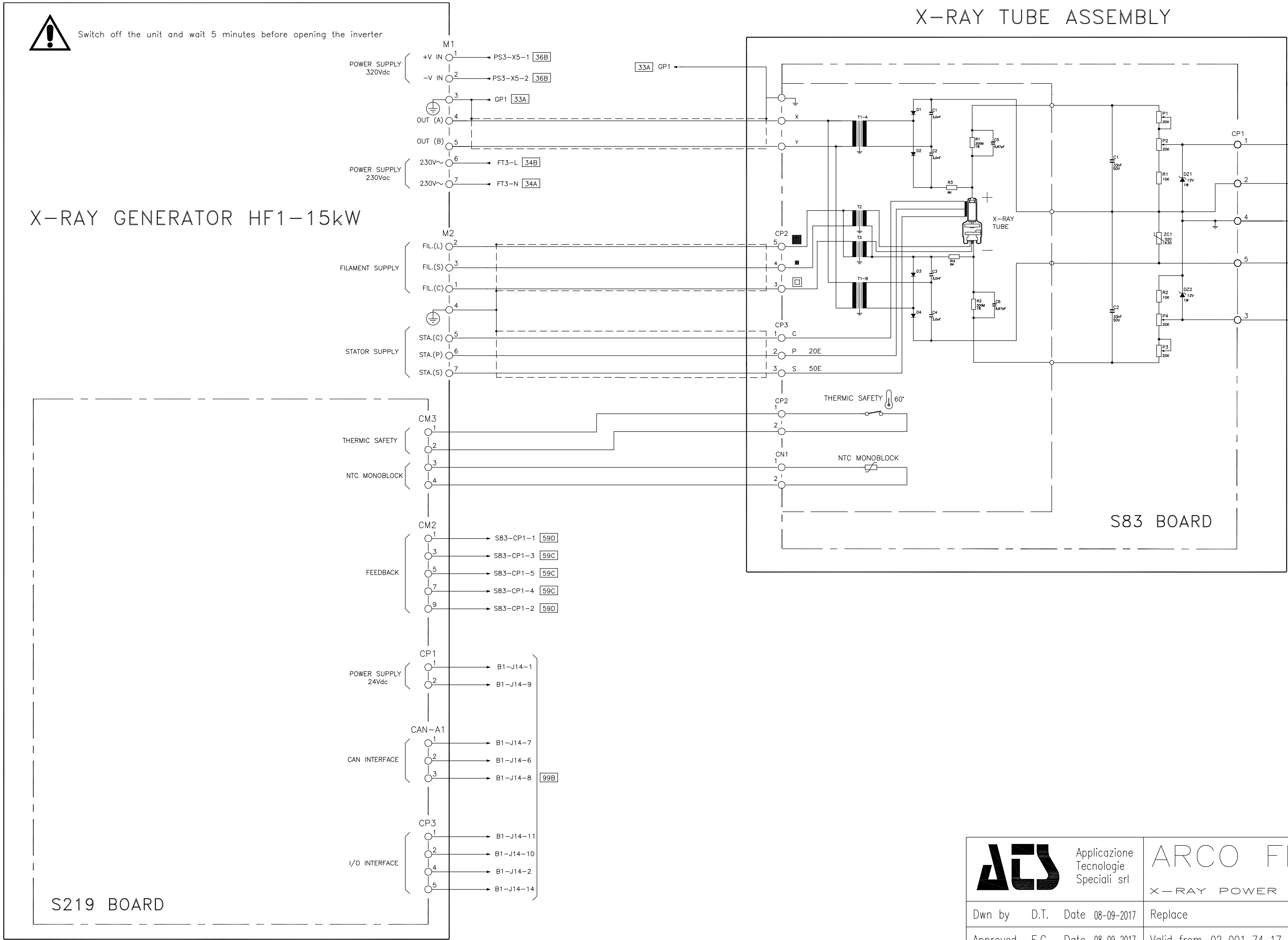
ARCO FP

POWER SUPPLY CIRCUIT

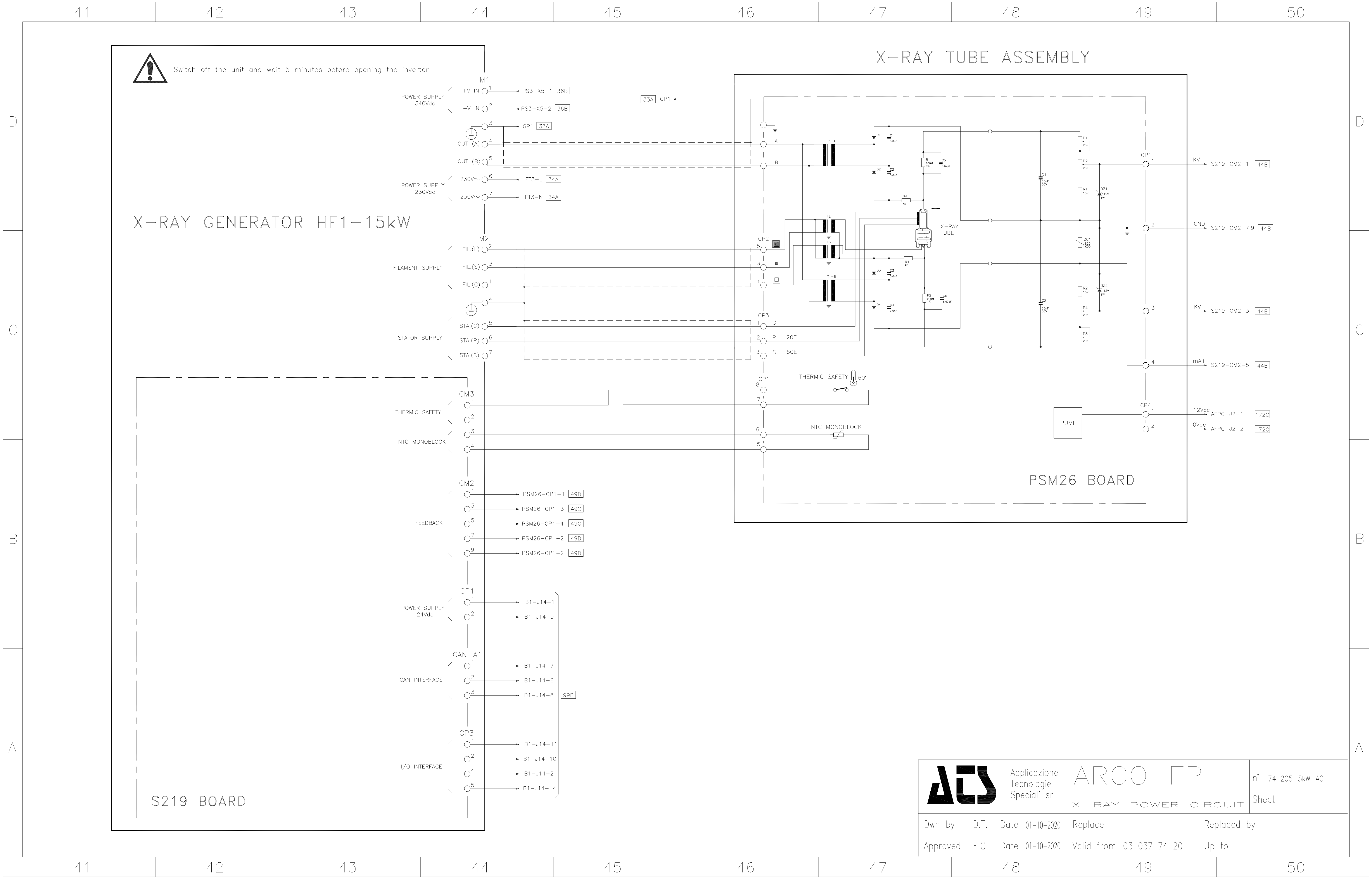
n° 74 204B-20kW-MOT

Sheet

Dwn by M.F.	Date 07-03-2023	Replace 74 204A-20kW-MOT	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP X-RAY POWER CIRCUIT		n° 74 205 - 5kW Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



ATS Applicazione Tecnologie Speciali srl

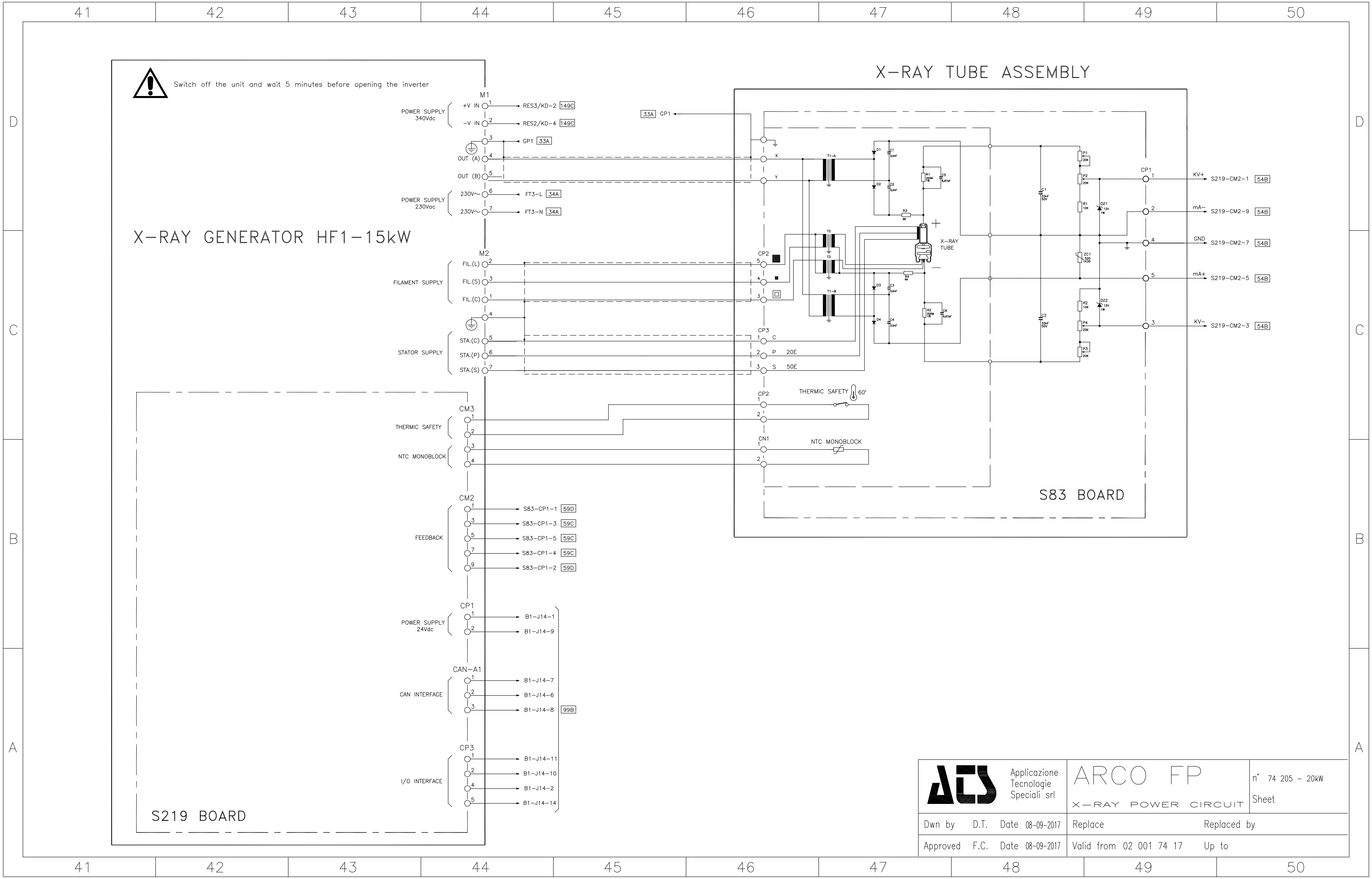
ARCO FP

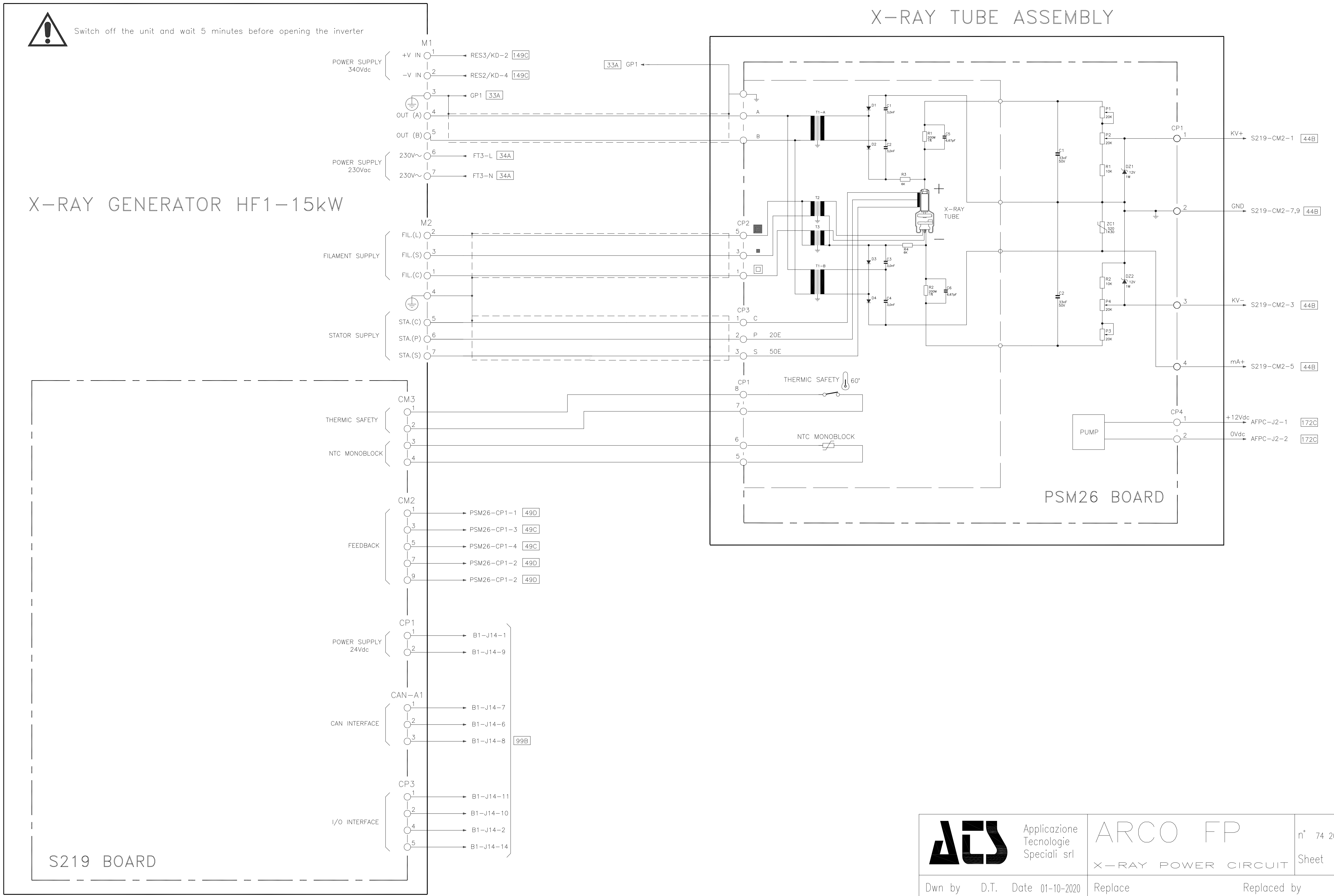
X-RAY POWER CIRCUIT

n° 74 205-5kW-AC

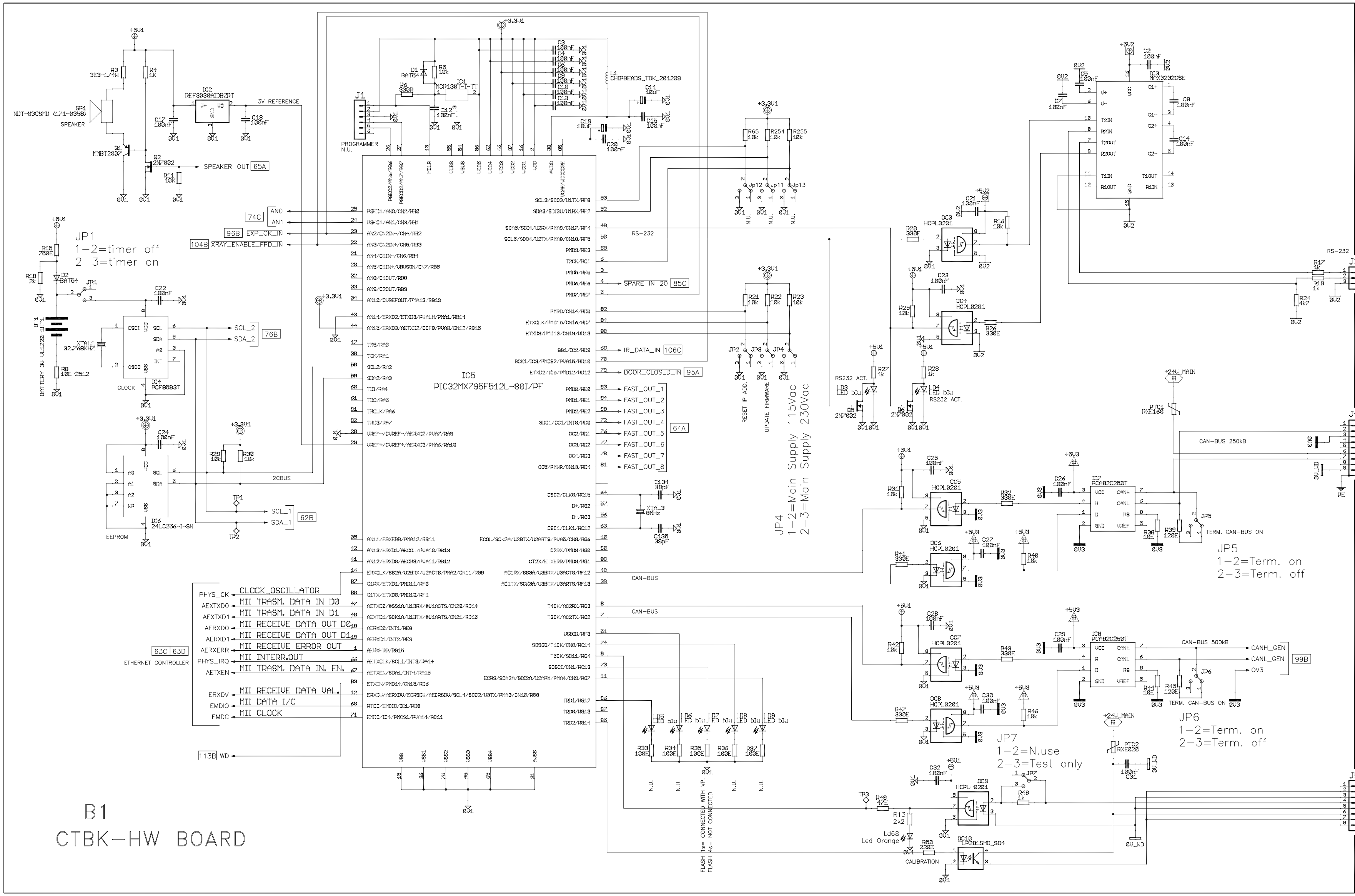
Sheet

Dwn by	D.T.	Date 01-10-2020	Replace	Replaced by
Approved	F.C.	Date 01-10-2020	Valid from 03 037 74 20	Up to

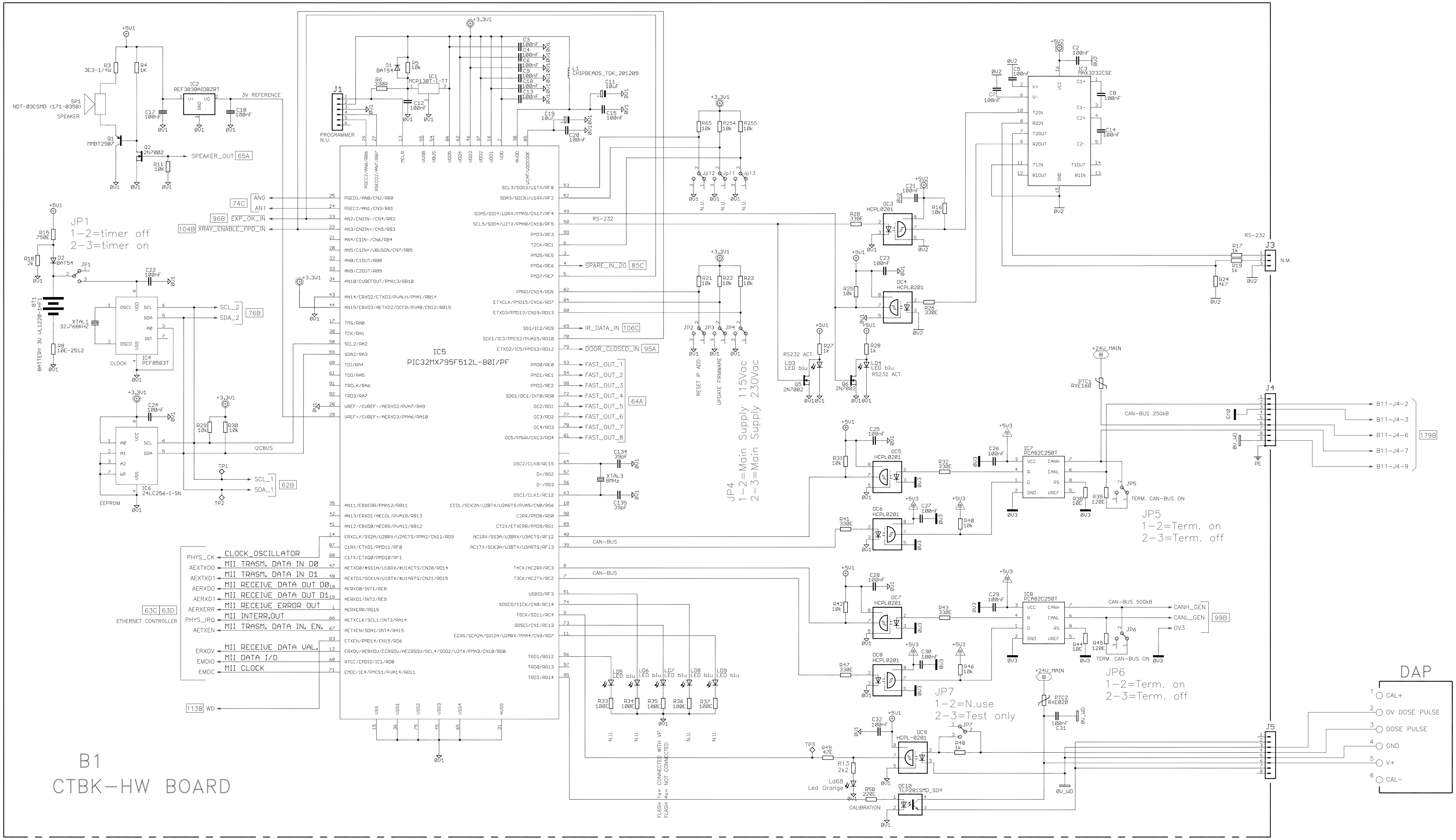

Switch off the unit and wait 5 minutes before opening the inverter
X-RAY GENERATOR HF1-15kW
X-RAY TUBE ASSEMBLY
M1
POWER SUPPLY 340Vdc
+V IN
-V IN
RES3/KD-2 149C
RES2/KD-4 149C
GP1 33A
OUT (A)
OUT (B)
POWER SUPPLY 230Vac
230V~
FT3-L 34A
FT3-N 34A
33A GP1
M2
FILAMENT SUPPLY
FIL.(L)
FIL.(S)
FIL.(C)
STATOR SUPPLY
STA.(C)
STA.(P)
STA.(S)
CP2
CP3
C
P 20E
S 50E
X-RAY TUBE
CP1
KV+ S219-CM2-1 54B
mA- S219-CM2-9 54B
GND S219-CM2-7 54B
mA+ S219-CM2-5 54B
KV- S219-CM2-3 54B
THERMIC SAFETY 60°
CN1
NTC MONOBLOCK
S83 BOARD
CM3
THERMIC SAFETY
NTC MONOBLOCK
CM2
FEEDBACK
S83-CP1-1 59D
S83-CP1-3 59C
S83-CP1-5 59C
S83-CP1-4 59C
S83-CP1-2 59D
CP1
POWER SUPPLY 24Vdc
B1-J14-1
B1-J14-9
CAN-A1
CAN INTERFACE
B1-J14-7
B1-J14-6
B1-J14-8
99B
CP3
I/O INTERFACE
B1-J14-11
B1-J14-10
B1-J14-2
B1-J14-14
S219 BOARD
Applicazione Tecnologie Speciali srl
ARCO FP
X-RAY POWER CIRCUIT
n° 74 205 - 20kW
Sheet
Dwn by D.T. Date 08-09-2017
Replace
Replaced by
Approved F.C. Date 08-09-2017
Valid from 02 001 74 17
Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP X-RAY POWER CIRCUIT		n° 74 205-20kW-AC Sheet
Dwn by D.T. Date 01-10-2020	Replace	Replaced by	
Approved F.C. Date 01-10-2020	Valid from 03 018 74 20	Up to	



ATS Applicazione Tecnologie Speciali srl	ARCO FP CTBK-HW BOARD (B1)	n° 74 206A Sheet	
Dwn by D.T. Date 12-12-2019	Replace 74 206	Replaced by	
Approved F.C. Date 12-12-2019	Valid from 02 021 74 19	Up to	



Applicazione
Tecnologie
Speciali srl

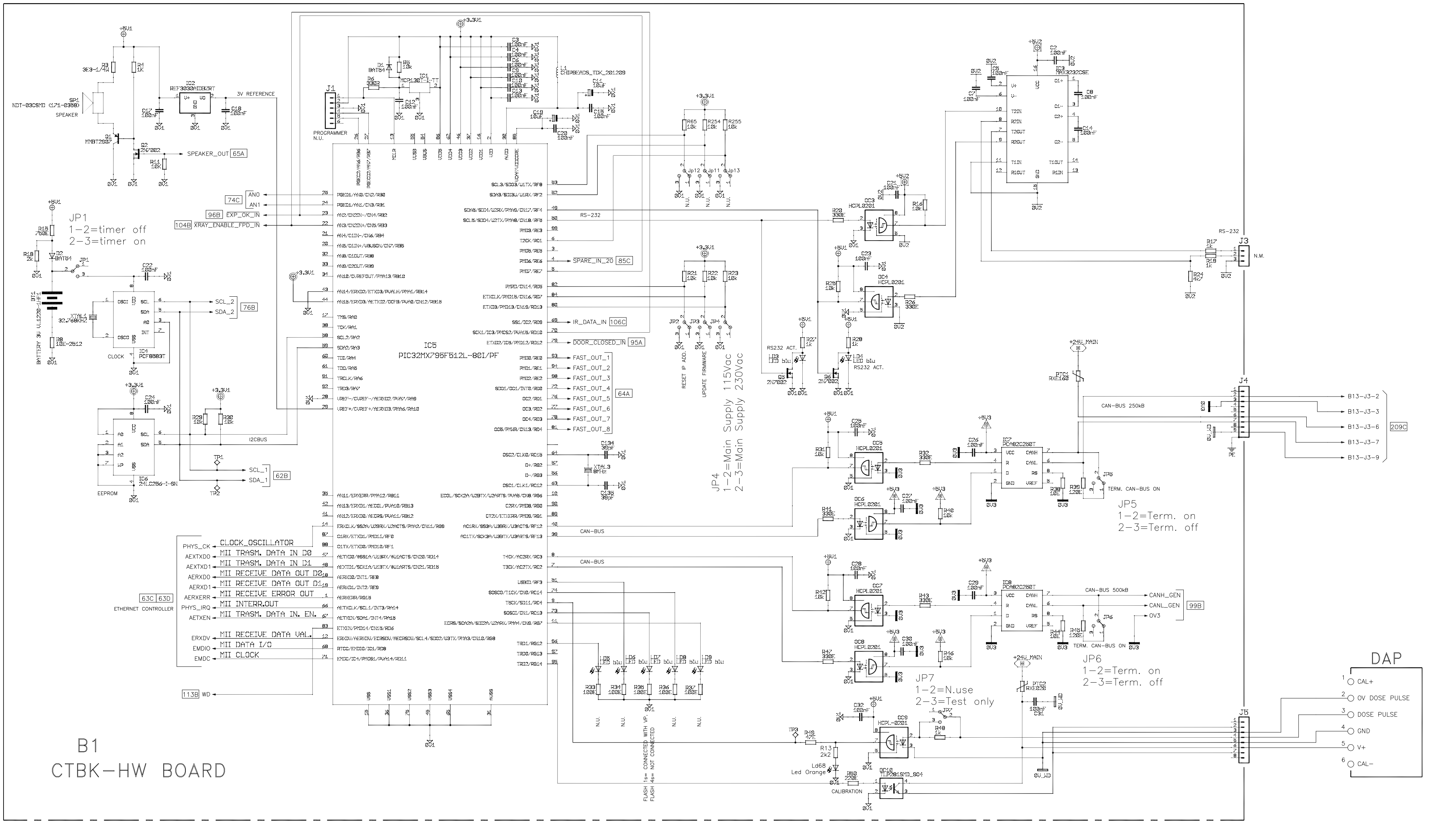
ARCO FP

CTBK-HW BOARD (B1)

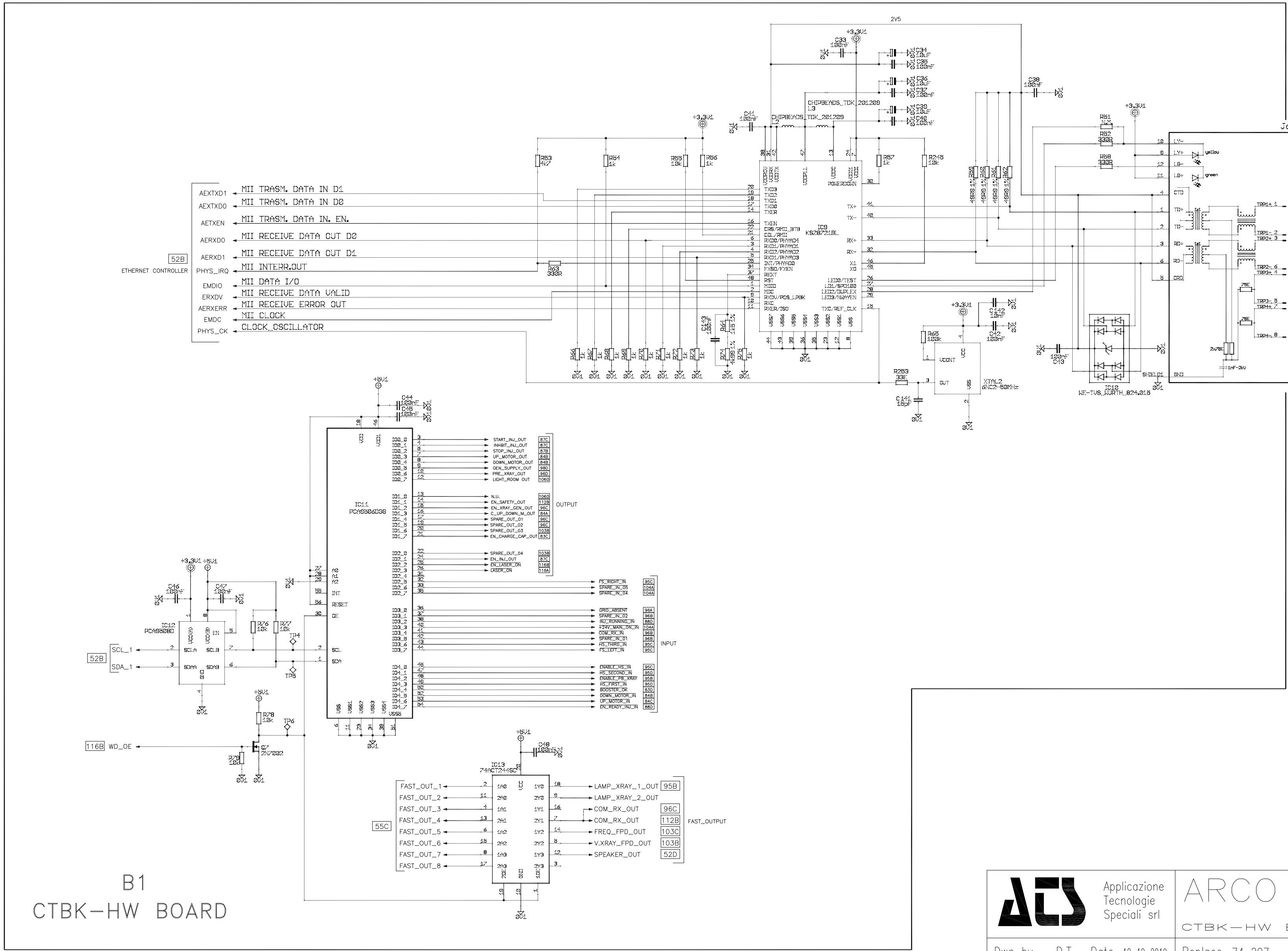
n° 74 206A-AC

Sheet

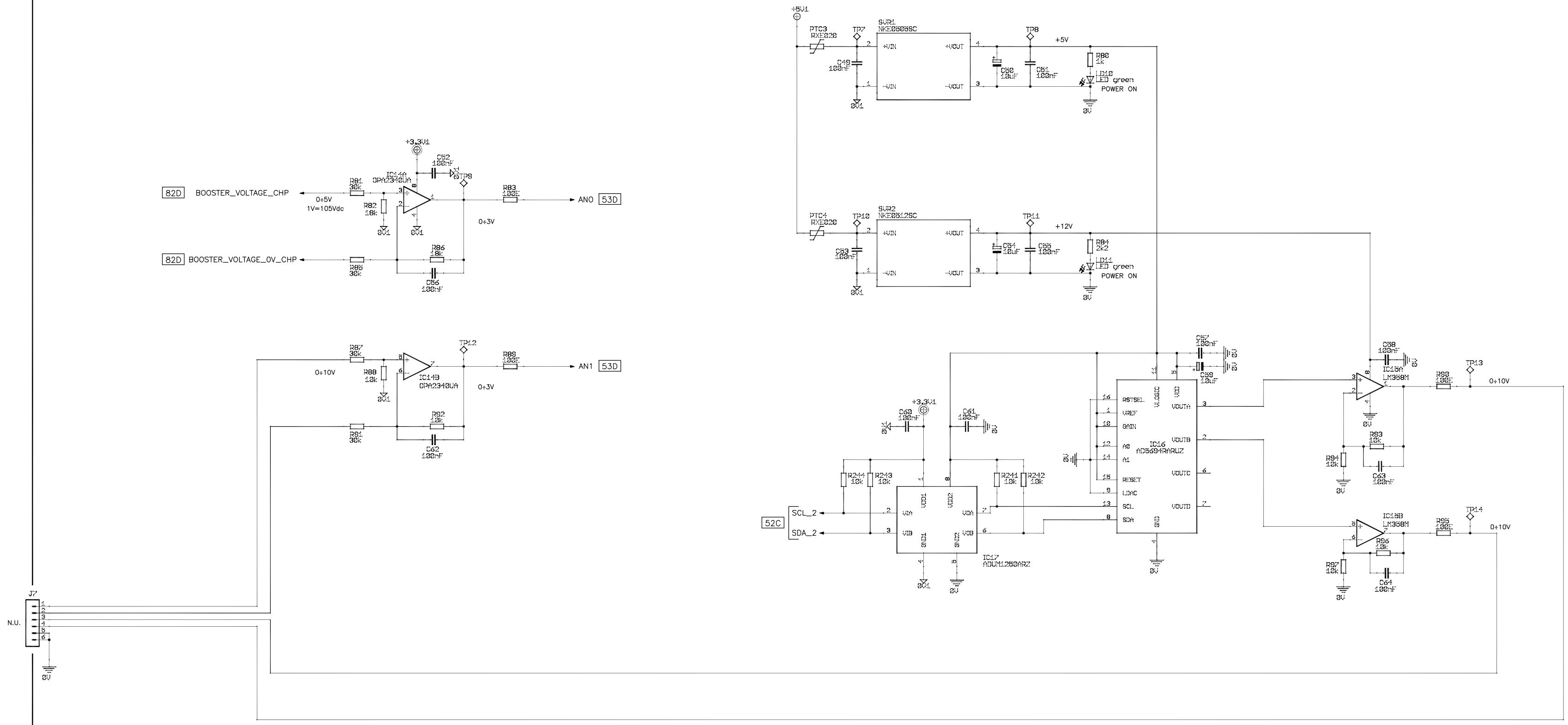
Dwn by	D.T.	Date 01-10-2020	Replace		Replaced by
Approved	F.C.	Date 01-10-2020	Valid from 03 037 74 20		Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP		n° 74 206A-MOT
	CTBK–HW BOARD (B1)		Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	



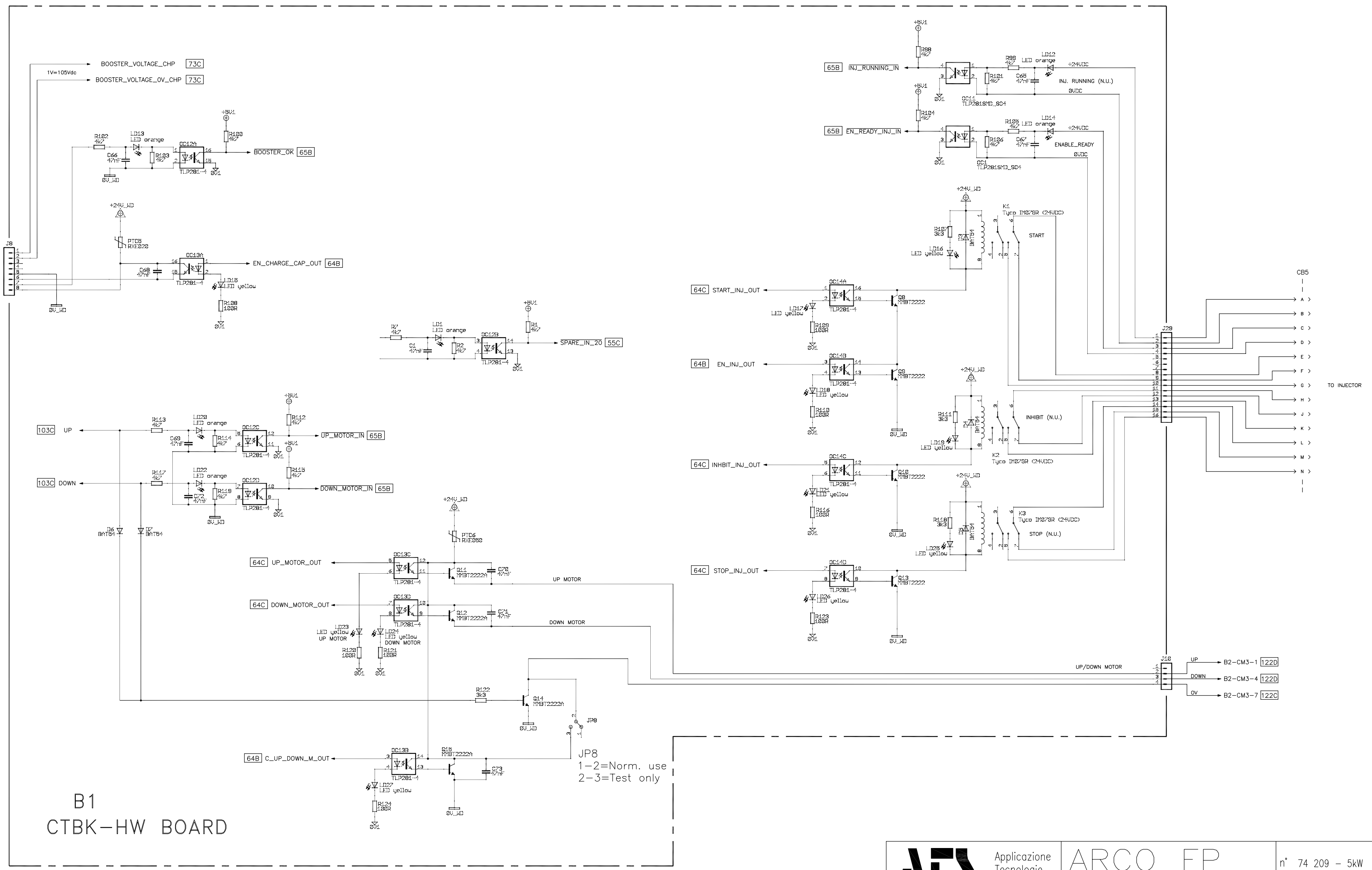
ATS Applicazione Tecnologie Speciali srl	ARCO FP CTBK-HW BOARD (B1)	n° 74 207A Sheet
Dwn by D.T. Date 12-12-2019	Replace 74 207	Replaced by
Approved F.C. Date 12-12-2019	Valid from 02 021 74 19	Up to



B1
CTBK–HW BOARD

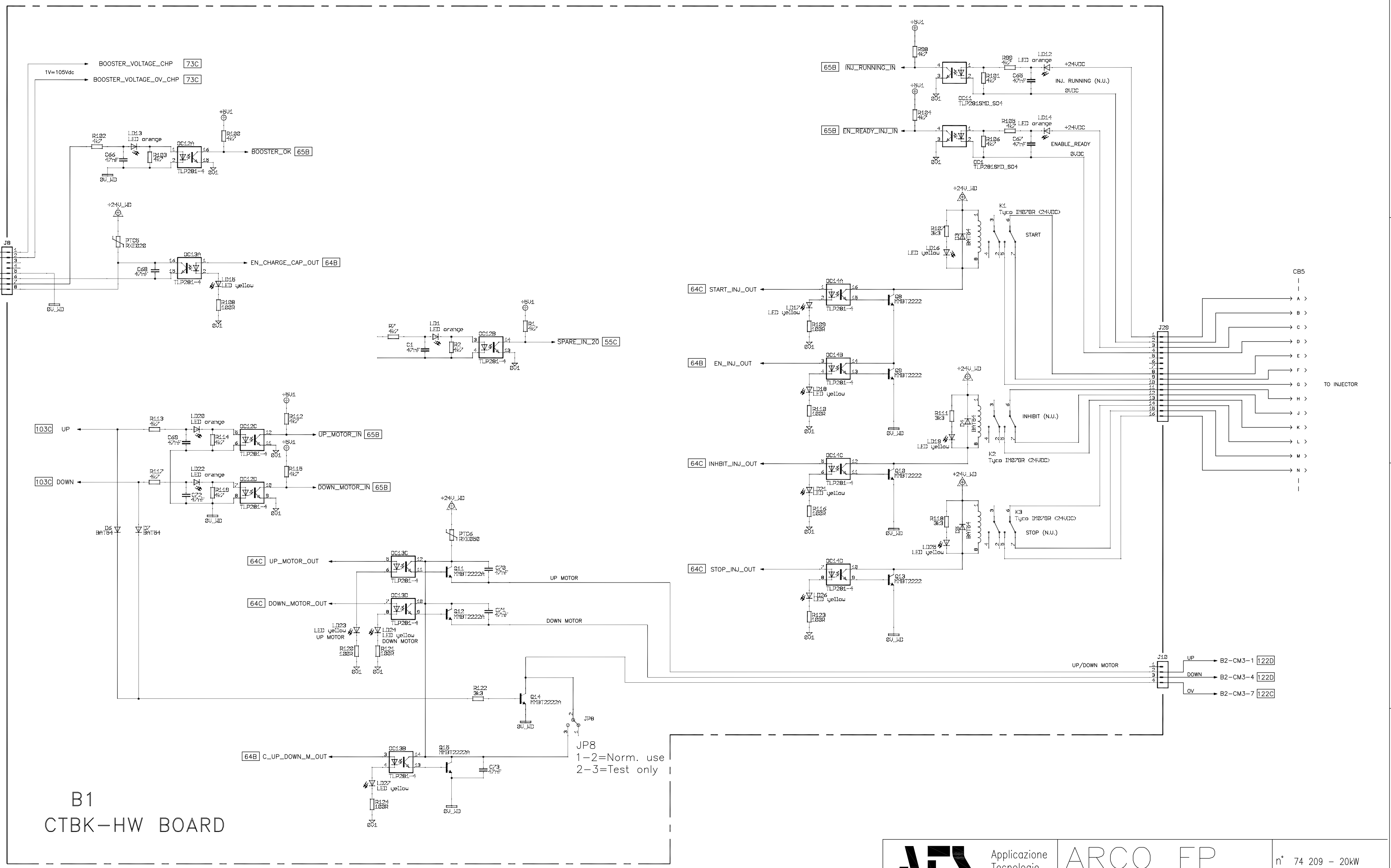
ATS Applicazione Tecnologie Speciali srl		ARCO FP CTBK–HW BOARD (B1)	n° 74 208 Sheet
Dwn by D.T.	Date 08-09-2017	Replace	Replaced by
Approved F.C.	Date 08-09-2017	Valid from 02 001 74 17	Up to

81	82	83	84	85	86	87	88	89	90

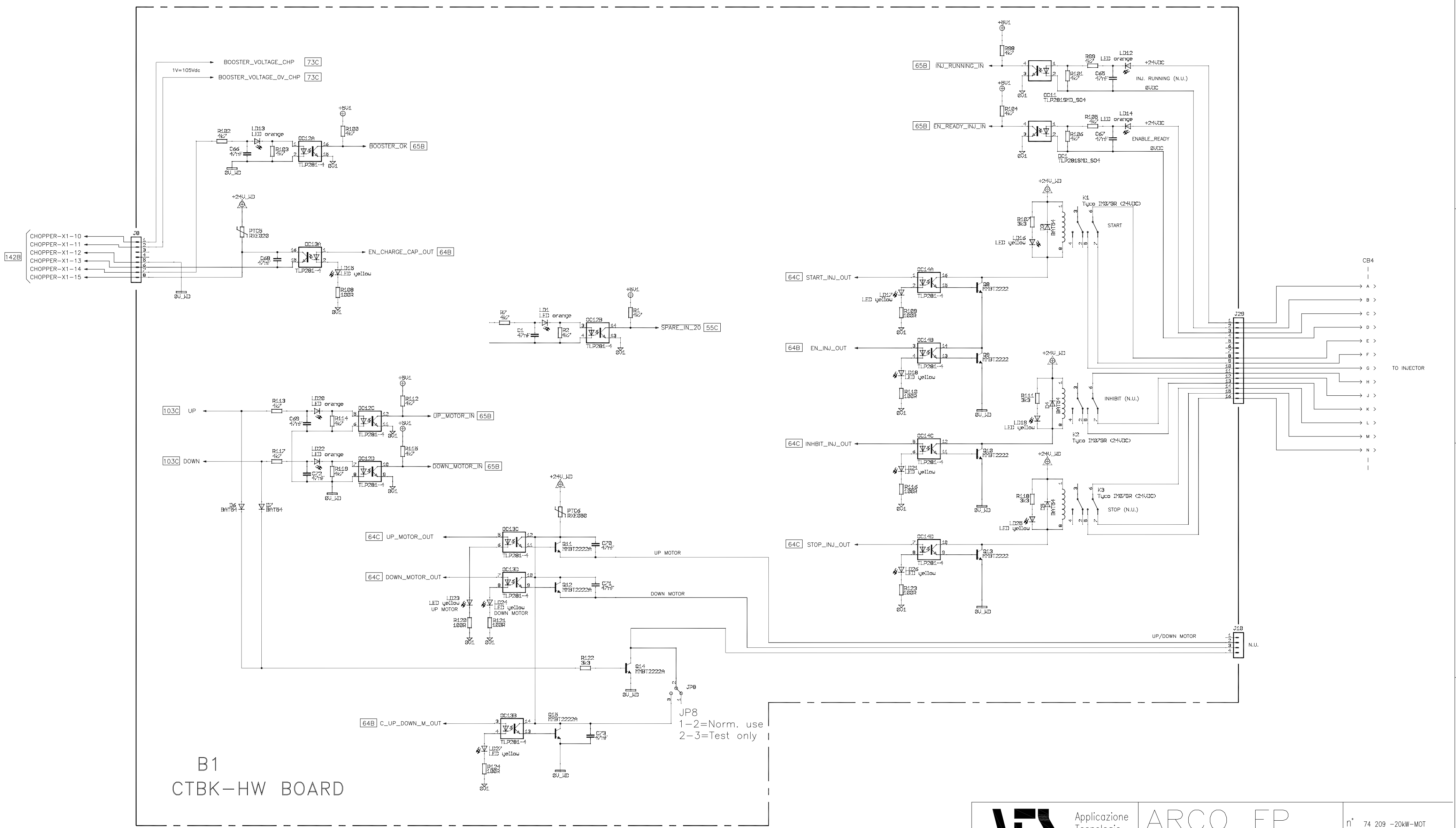


ATS Applicazione Tecnologie Speciali srl		ARCO FP CTBK-HW BOARD (B1)		n° 74 209 - 5kW Sheet
Dwn by D.T.	Date 08-09-2017	Replace	Replaced by	
Approved F.C.	Date 08-09-2017	Valid from 02 001 74 17	Up to	

81	82	83	84	85	86	87	88	89	90

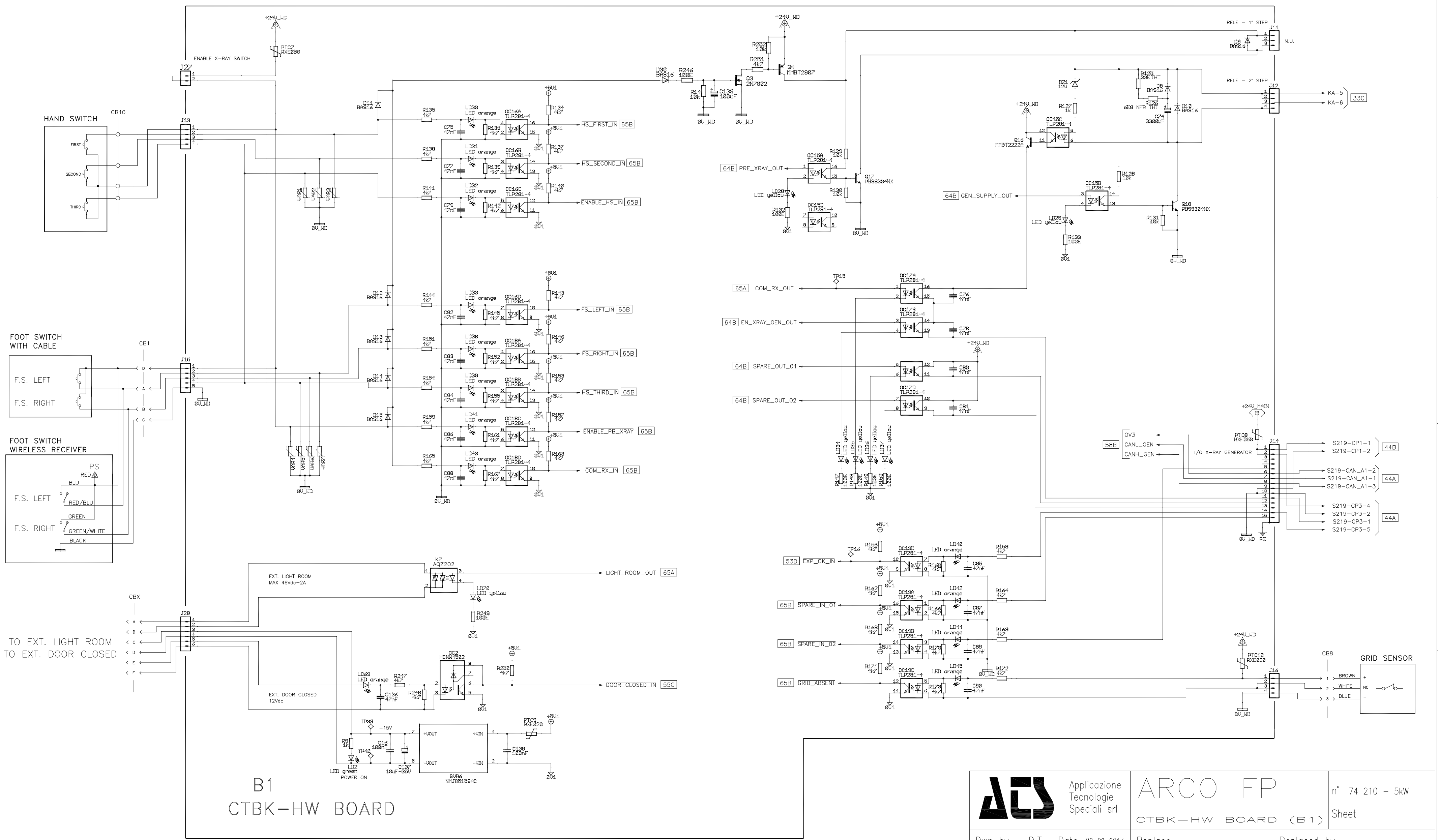


ATS Applicazione Tecnologie Speciali srl	ARCO FP — CTBK-HW BOARD (B1)	n° 74 209 - 20kW	Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



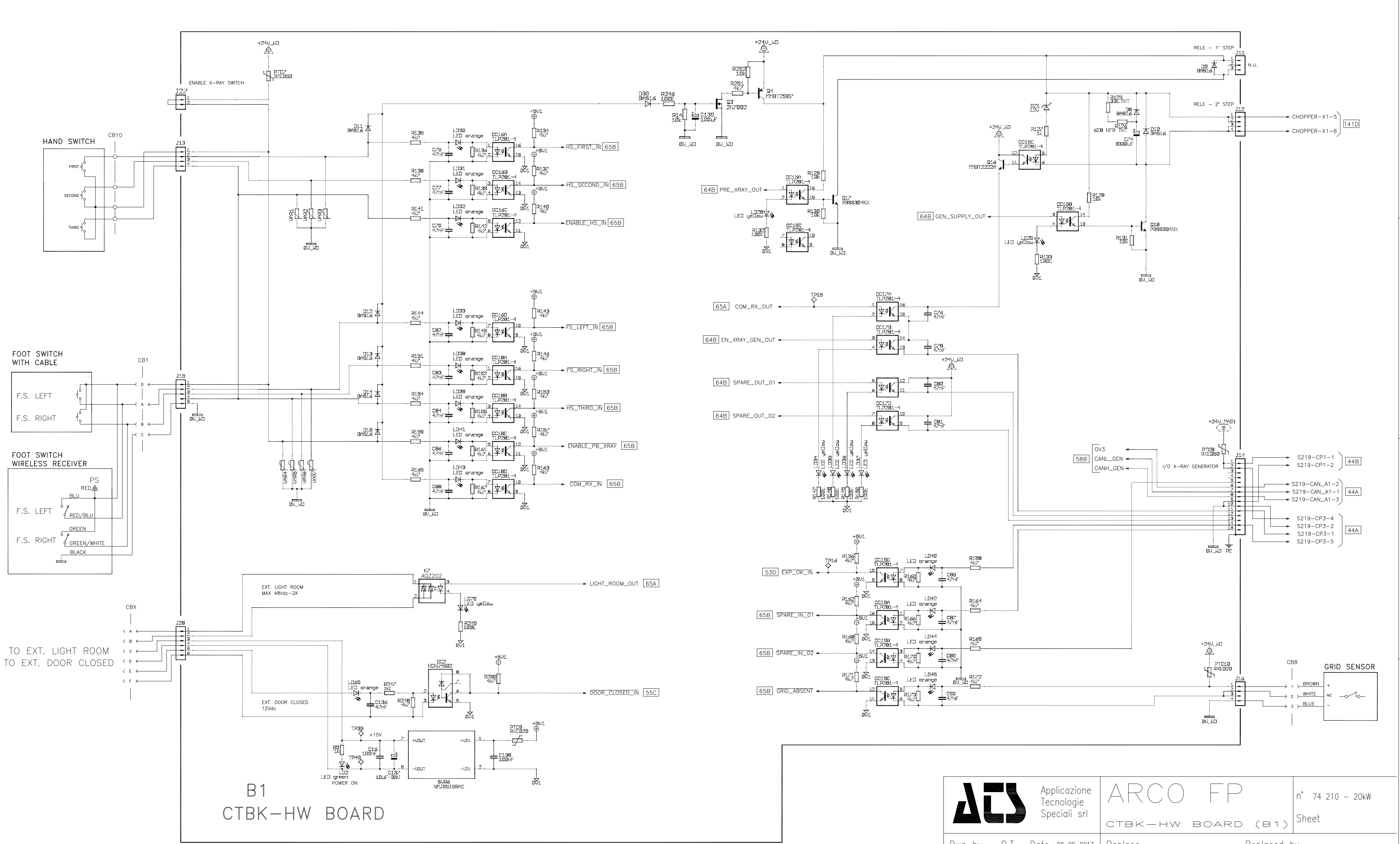
Applicazione Tecnologie Speciali srl	ARCO FP CTBK-HW BOARD (B1)	n° 74 209 -20kW-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to

91 92 93 94 95 96 97 98 99 100

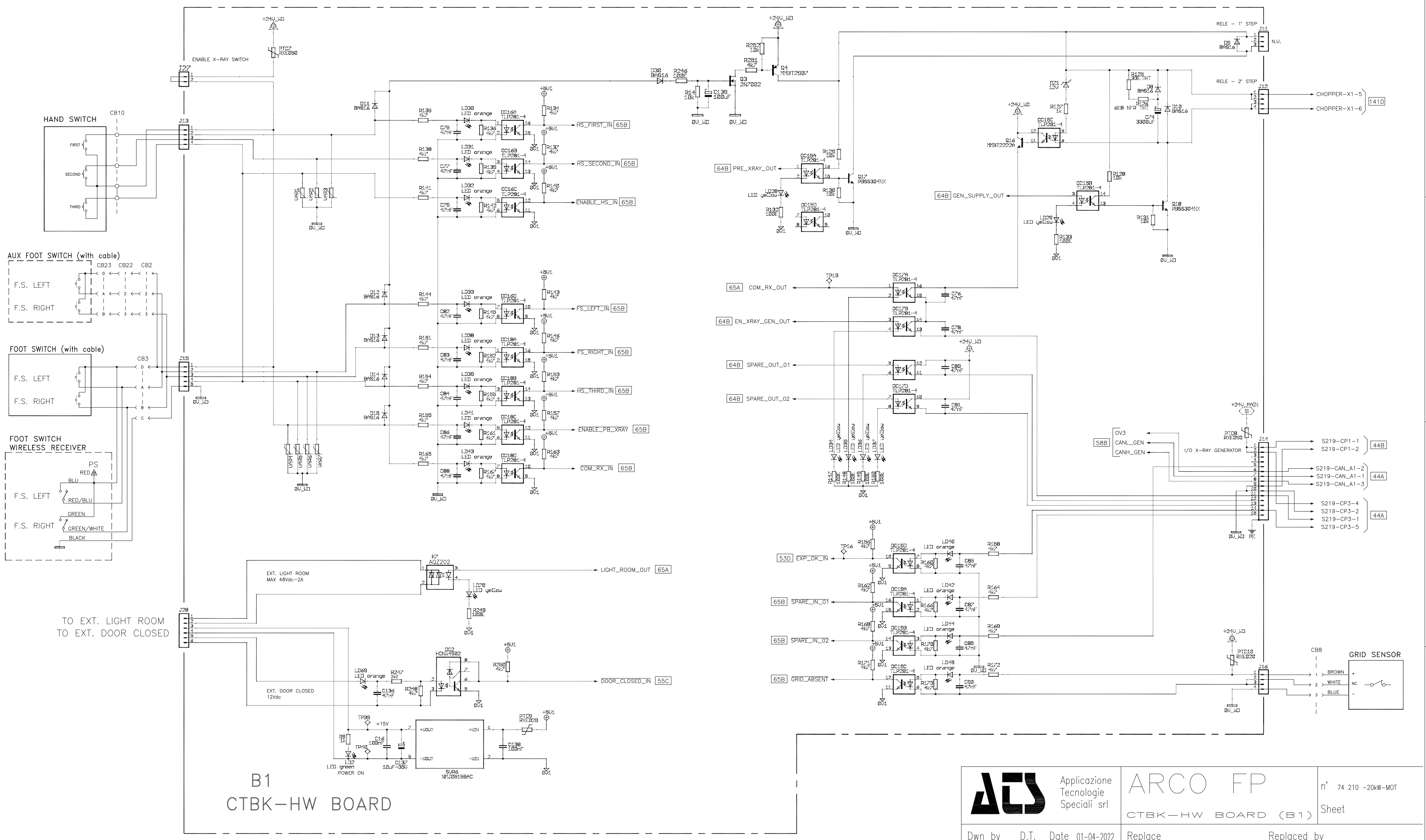


ATS Applicazione Tecnologie Speciali srl	ARCO FP		n° 74 210 - 5kW	
	CTBK-HW BOARD (B1)		Sheet	
Dwn by D.T.	Date 08-09-2017	Replace		Replaced by
Approved F.C.	Date 08-09-2017	Valid from 02 001 74 17		Up to

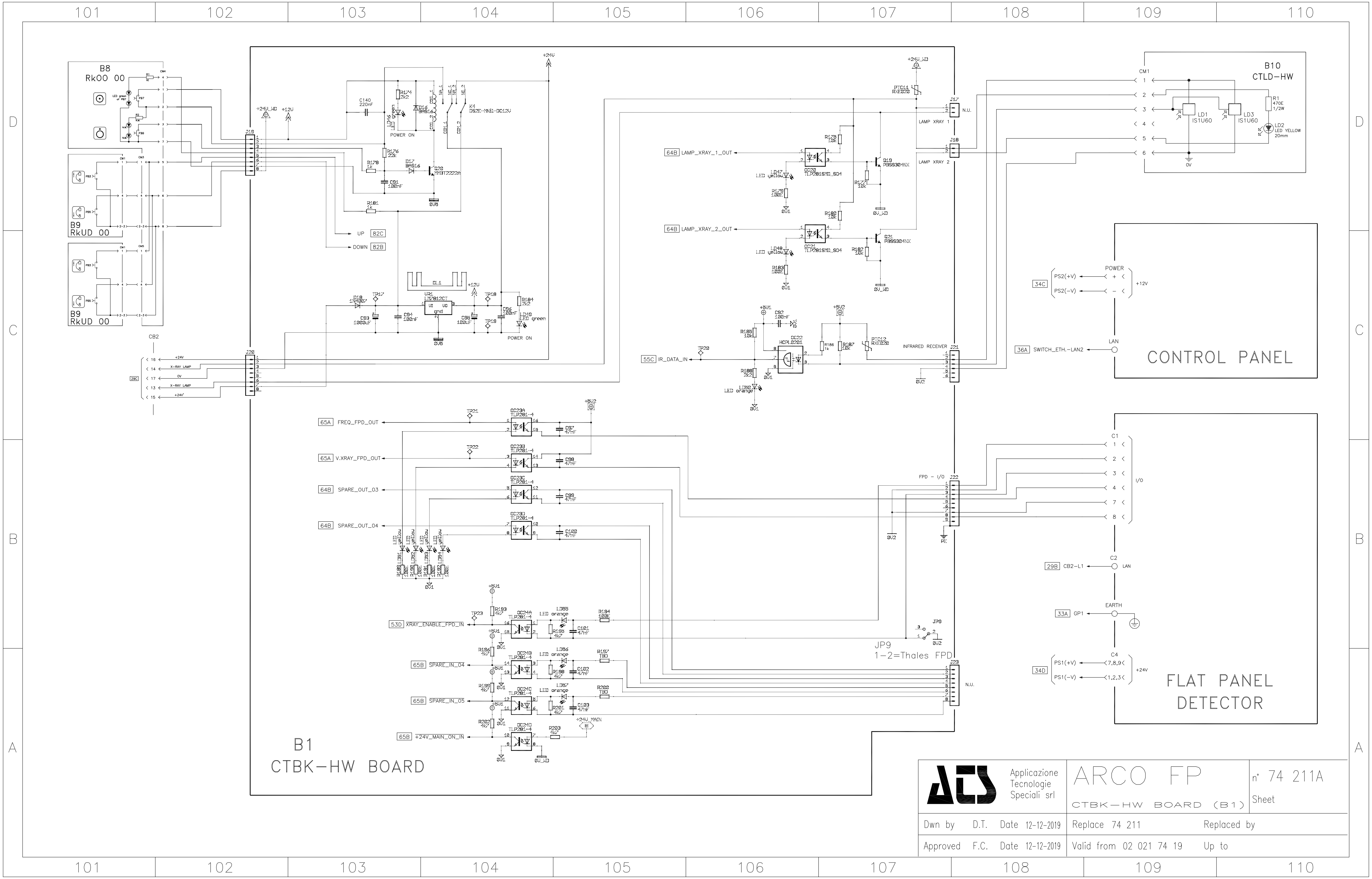
91 92 93 94 95 96 97 98 99 100

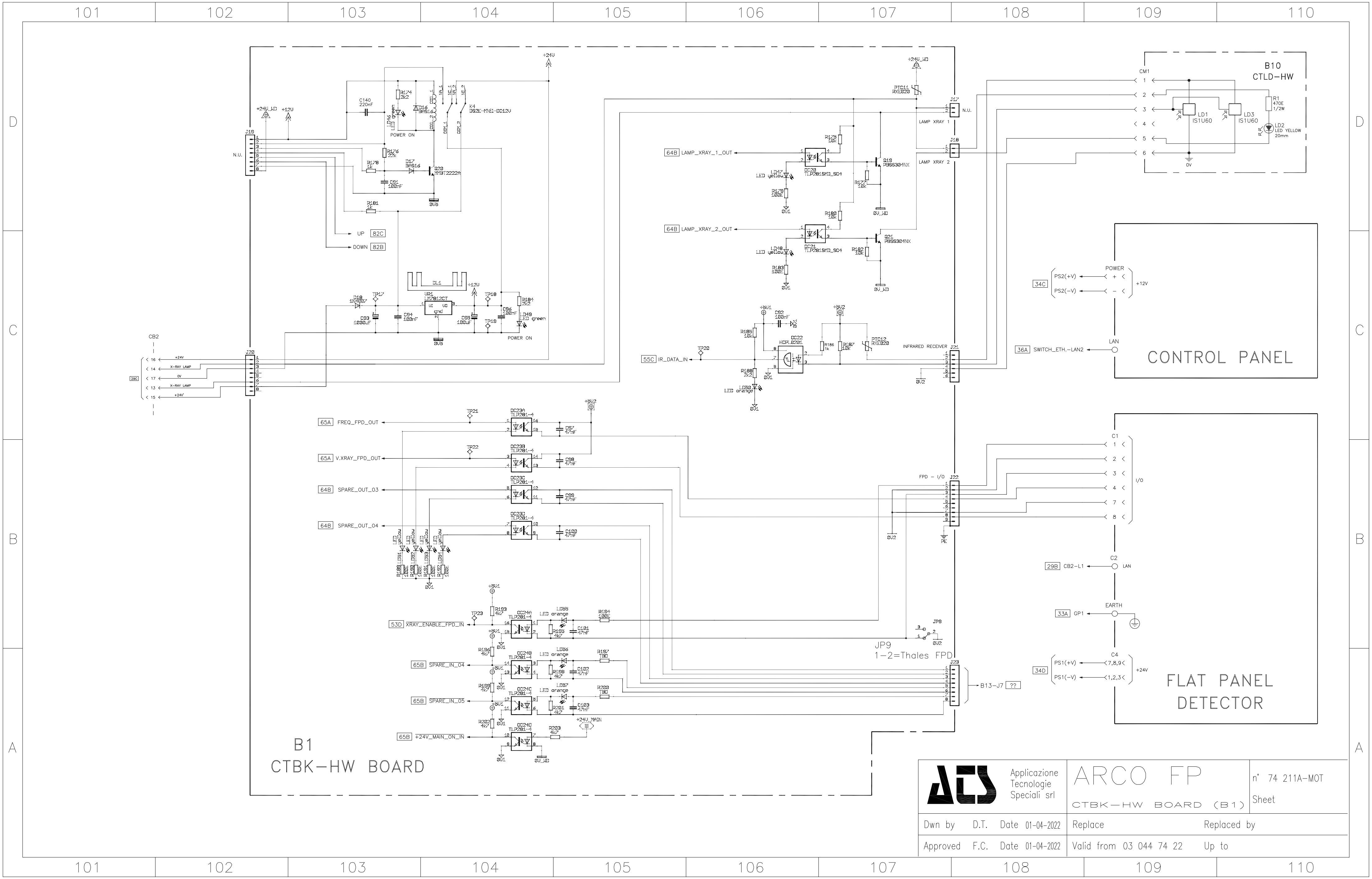


ATS Applicazione Tecnologie Speciali srl	ARCO FP CTBK-HW BOARD (B1)	n° 74 210 - 20kW Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to

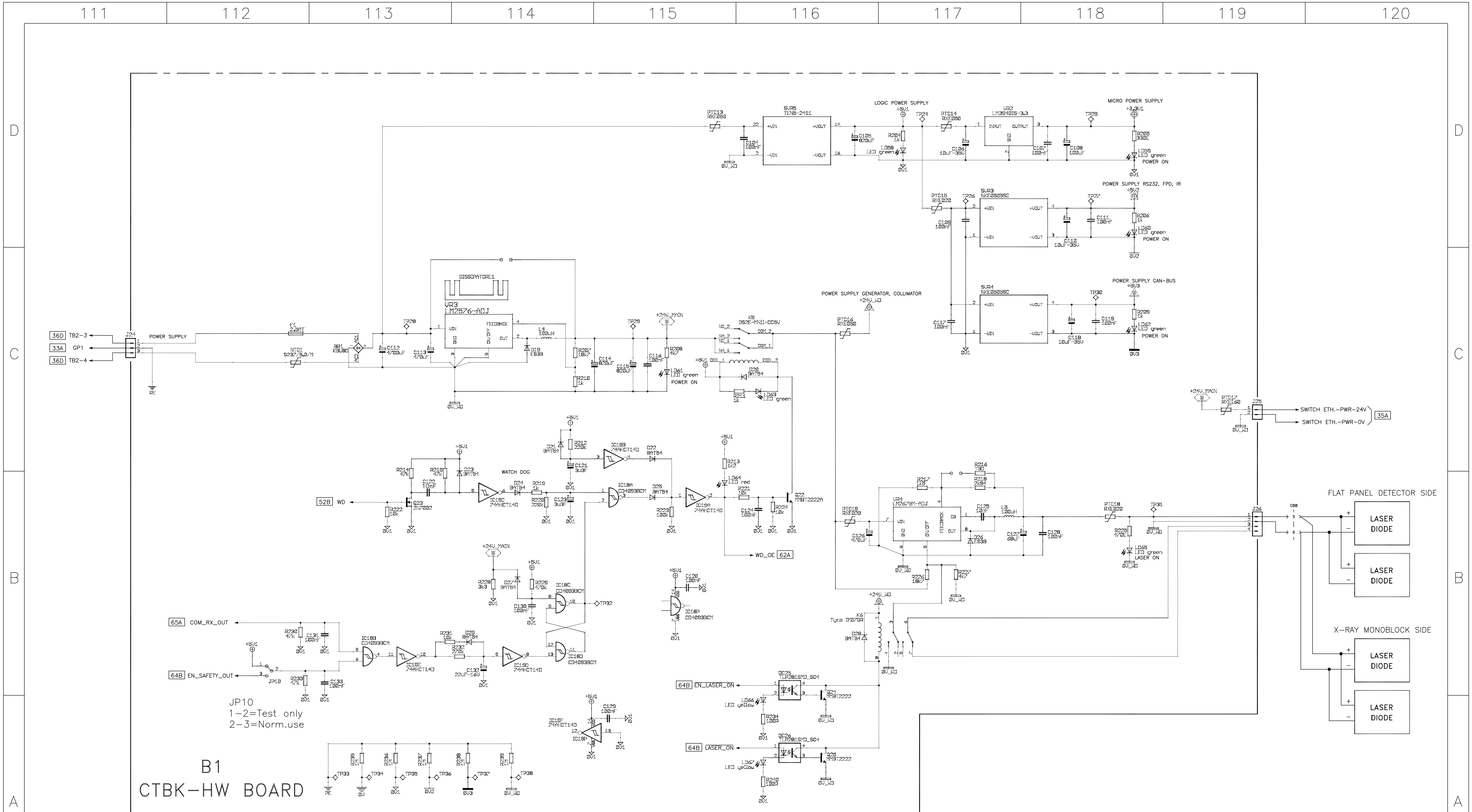


ATS Applicazione Tecnologie Speciali srl	ARCO FP		n° 74 210 -20kW-MOT
	CTBK-HW BOARD (B1)		Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	

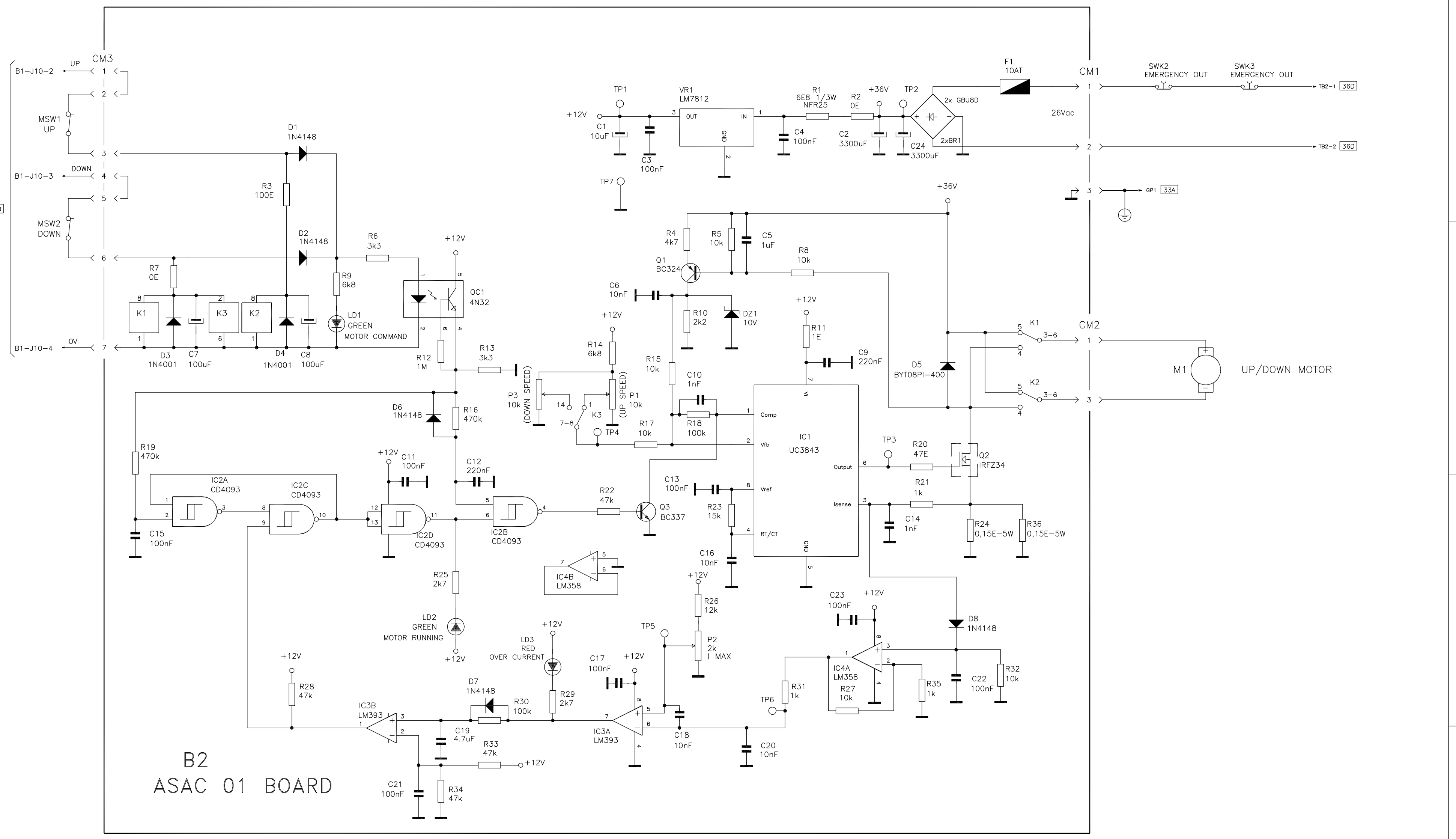

B8
RkOO 00
B9
RkUD 00
B9
RkUD 00
CB2
B1
CTBK-HW BOARD
LAMP_XRAY_1_OUT
LAMP_XRAY_2_OUT
IR_DATA_IN
FREQ_FPD_OUT
V.XRAY_FPD_OUT
SPARE_OUT_03
SPARE_OUT_04
XRAY_ENABLE_FPD_IN
SPARE_IN_04
SPARE_IN_05
+24V_MAIN_ON_IN
UP
DOWN
POWER ON
LAMP XRAY 1
LAMP XRAY 2
INFRARED RECEIVER
FPD - I/O
JP9
1-2=Thales FPD
B10
CTLD-HW
CONTROL PANEL
POWER
LAN
SWITCH_ETH.-LAN2
PS2(+V)
PS2(-V)
FLAT PANEL
DETECTOR
CB2-L1
EARTH
GP1
PS1(+V)
PS1(-V)
Applicazione
Tecnologie
Speciali srl
ARCO FP
CTBK-HW BOARD (B1)
n° 74 211A
Sheet
Dwn by D.T. Date 12-12-2019
Replace 74 211
Replaced by
Approved F.C. Date 12-12-2019
Valid from 02 021 74 19
Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP CTBK−HW BOARD (B1)		n° 74 211A-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	

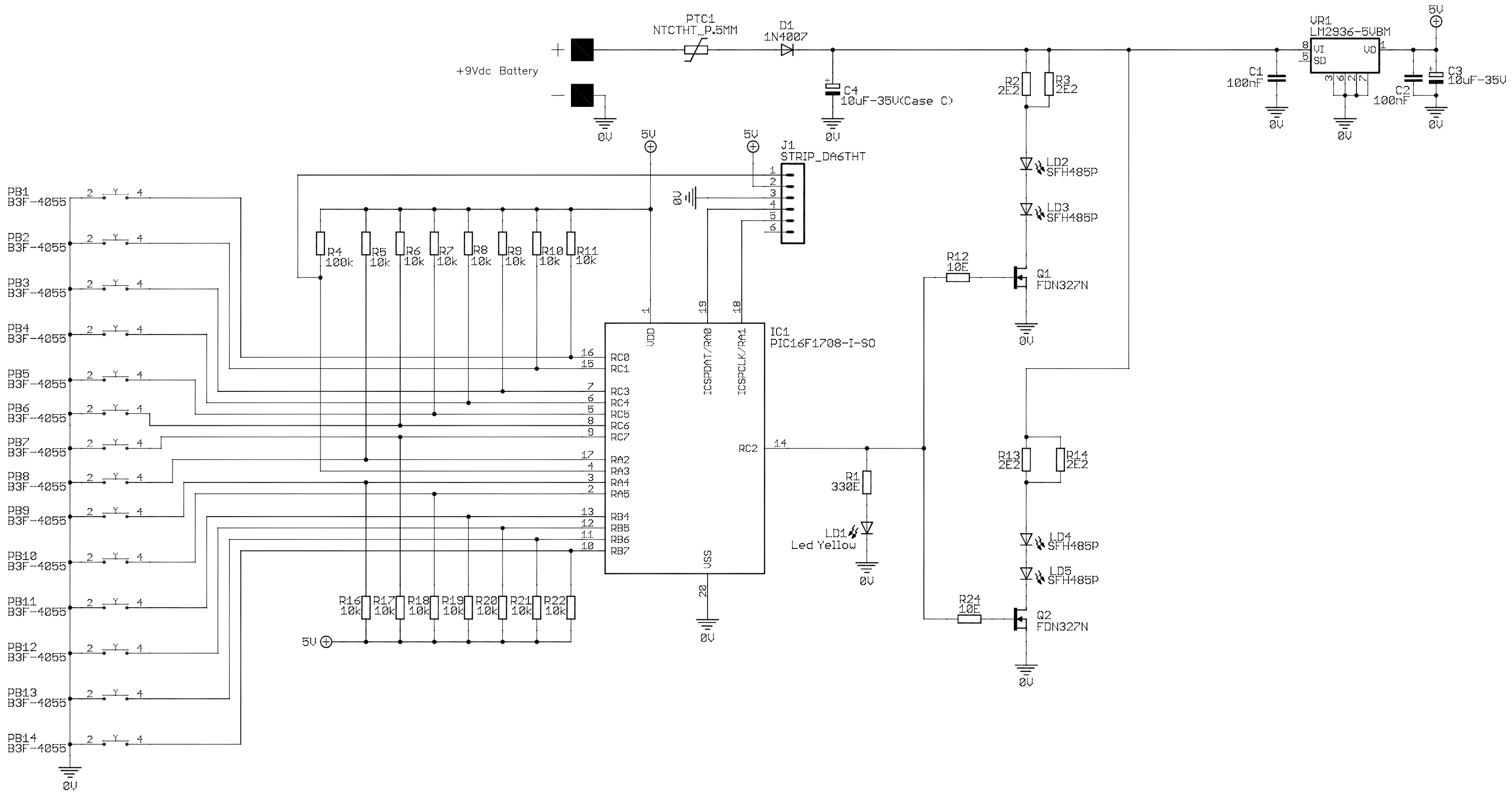


ATS Applicazione Tecnologie Speciali srl	ARCO FP CTBK-HW BOARD (B1)	n° 74 212 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to



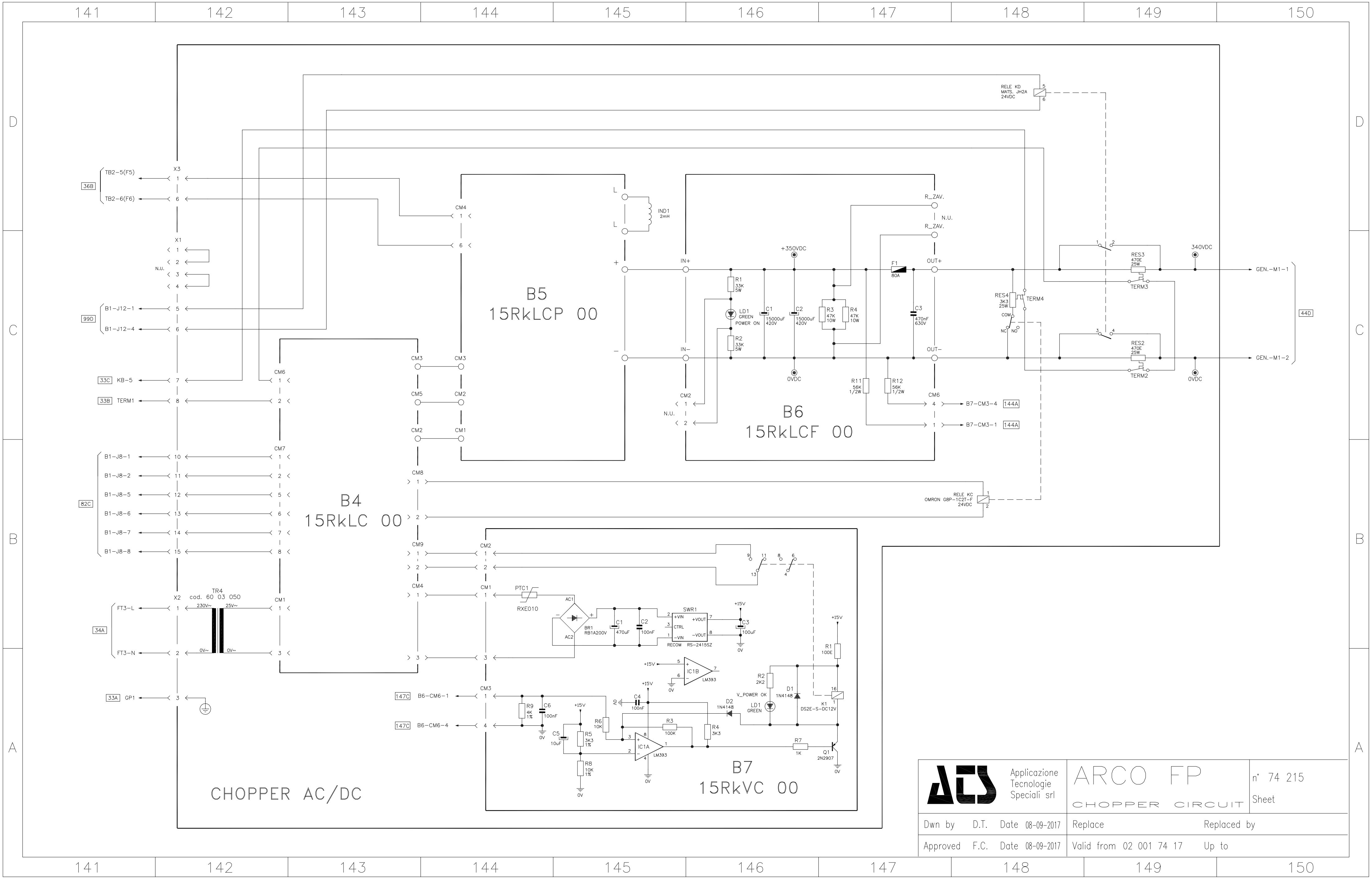
ATS Applicazione Tecnologie Speciali srl	ARCO FP UP/DOWN MOTOR CONTROL BOARD		n° 74 213 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

D C B A



B3
CTIR—HW BOARD

ATS Applicazione Tecnologie Speciali srl	ARCO FP IR REMOTE CONTROL BOARD		n° 74 214 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



ACS

Applicazione
Tecnologie
Speciali srl

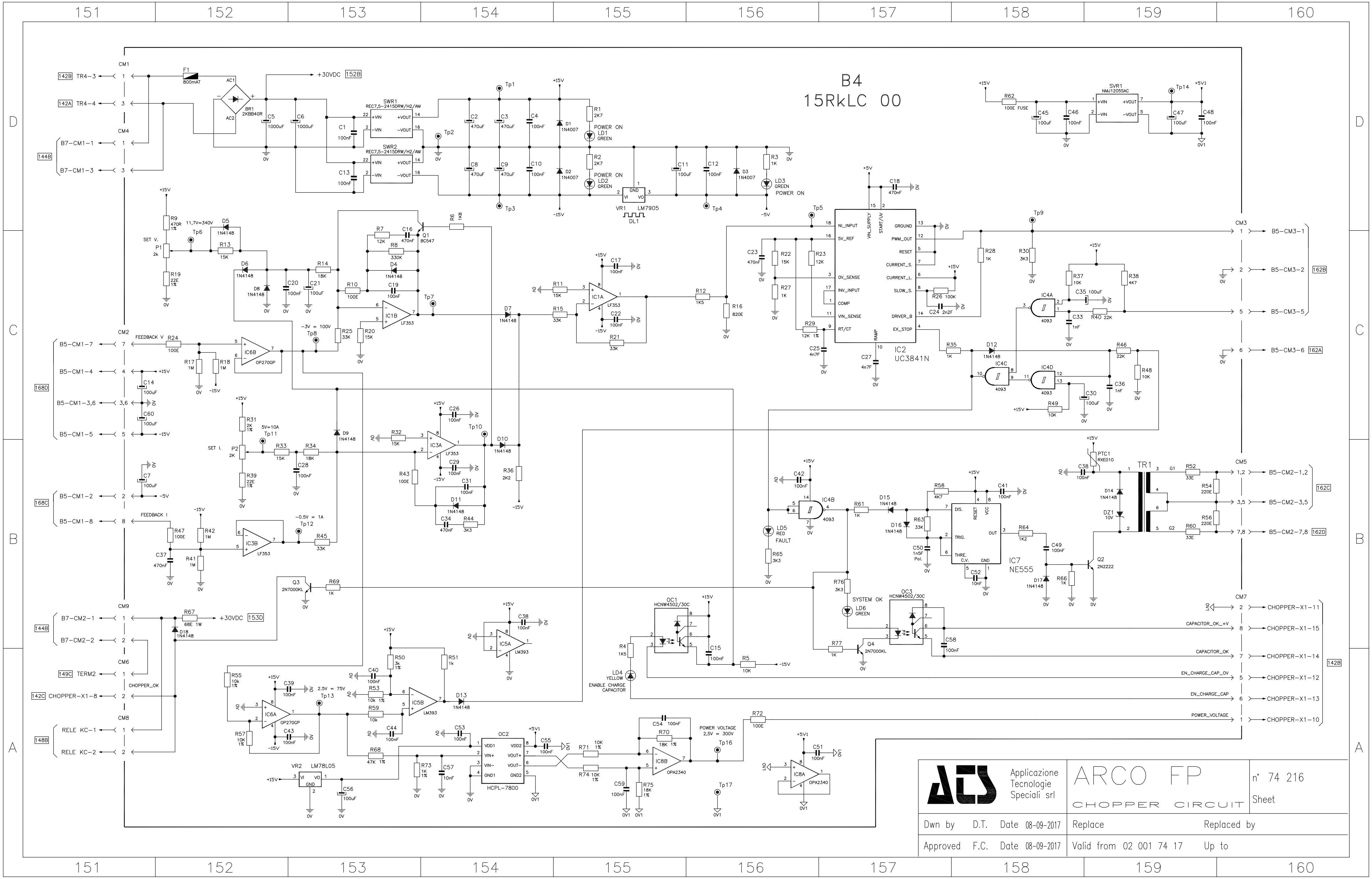
ARCO FP

CHOPPER CIRCUIT

n° 74 215

Sheet

Dwn by	D.T.	Date	08-09-2017	Replace	Replaced by
Approved	F.C.	Date	08-09-2017	Valid from 02 001 74 17	Up to



Applicazione Tecnologie Speciali srl

ARCO FP

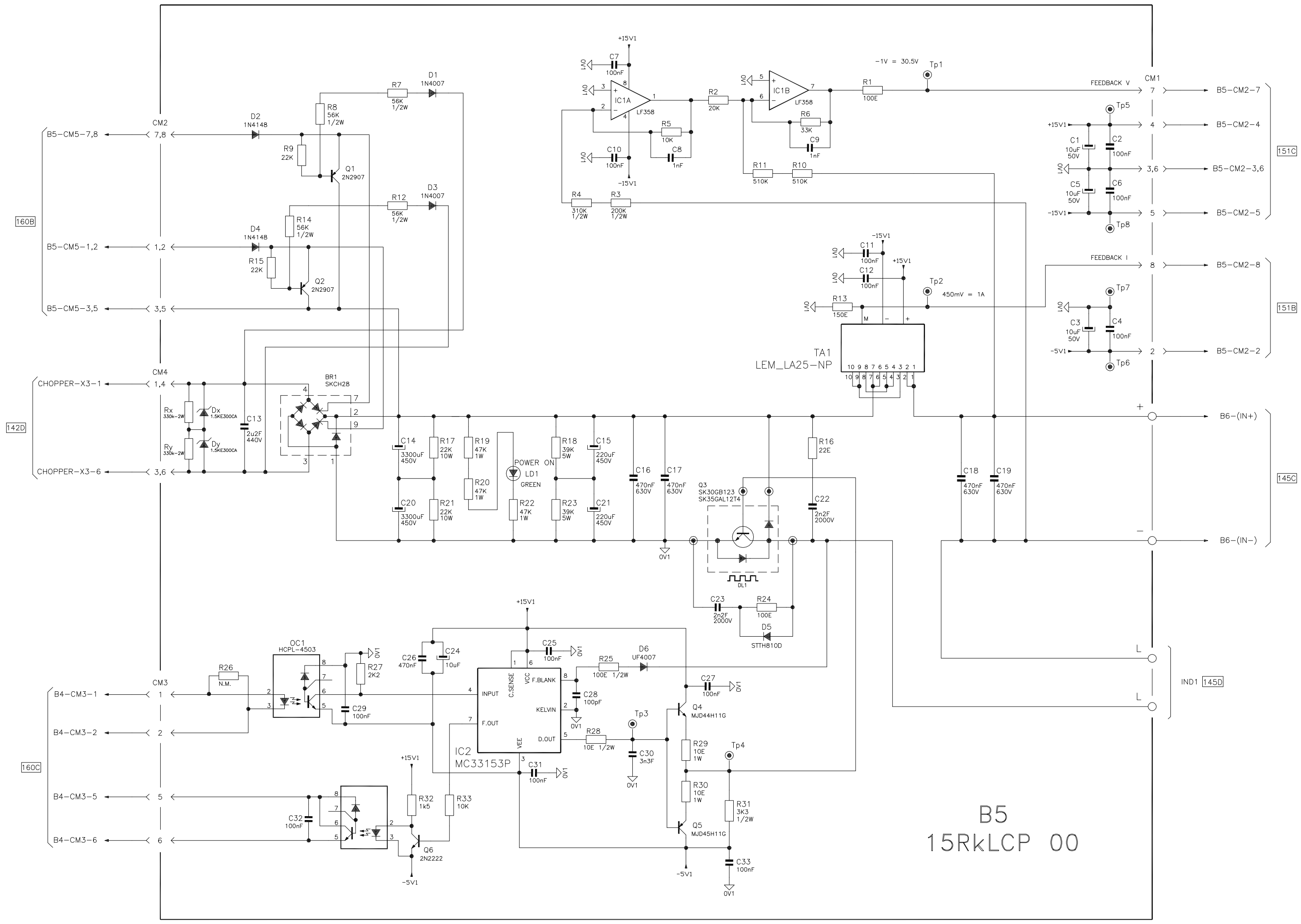
CHOPPER CIRCUIT

n° 74 216

Sheet

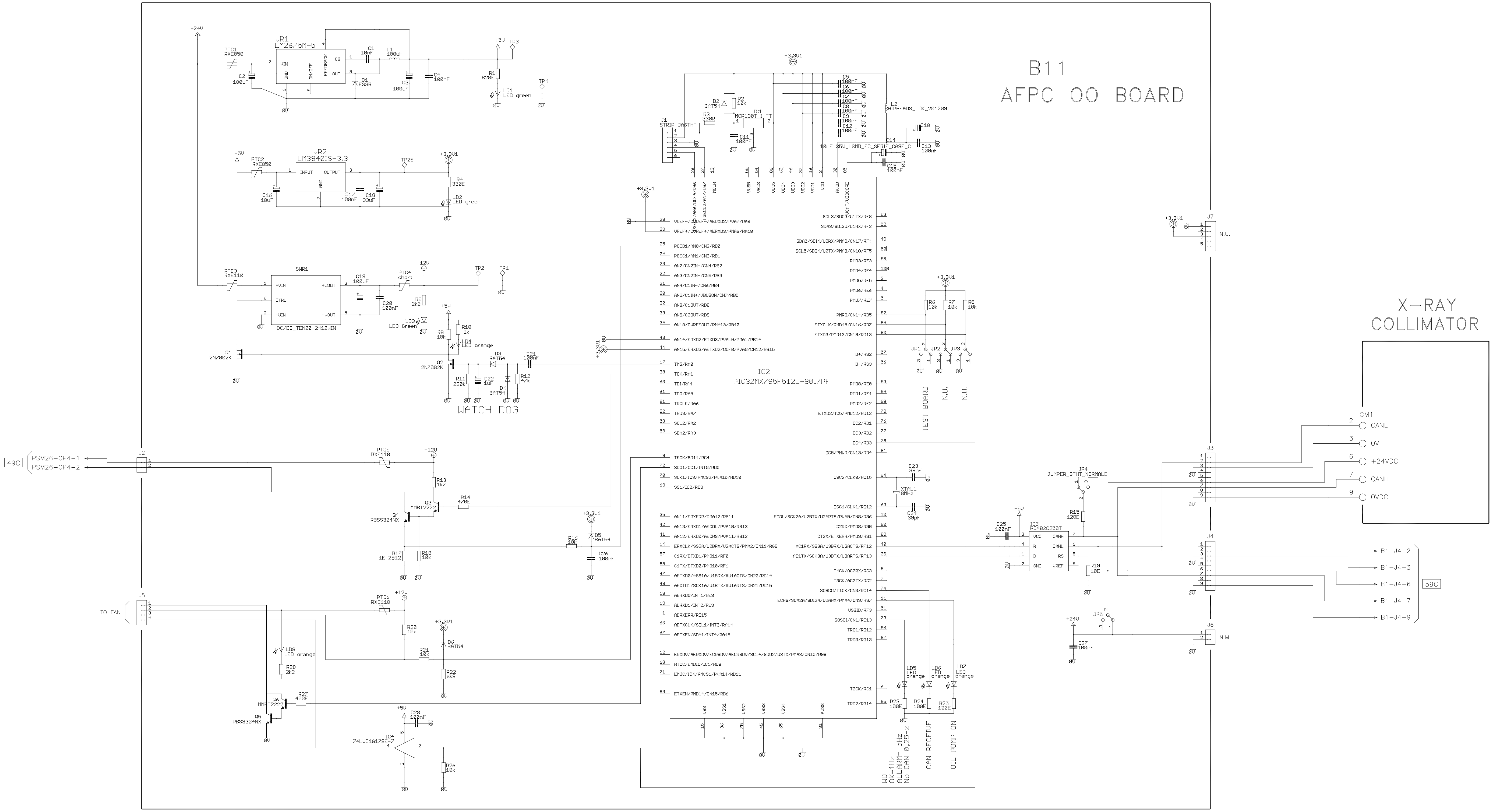
Dwn by D.T.	Date 08-09-2017	Replace	Replaced by
Approved F.C.	Date 08-09-2017	Valid from 02 001 74 17	Up to

161 162 163 164 165 166 167 168 169 170



ATS Applicazione Tecnologie Speciali srl	ARCO FP CHOPPER CIRCUIT		n° 74 217 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

161 162 163 164 165 166 167 168 169 170



Applicazione Tecnologie Speciali srl

ARCO FP

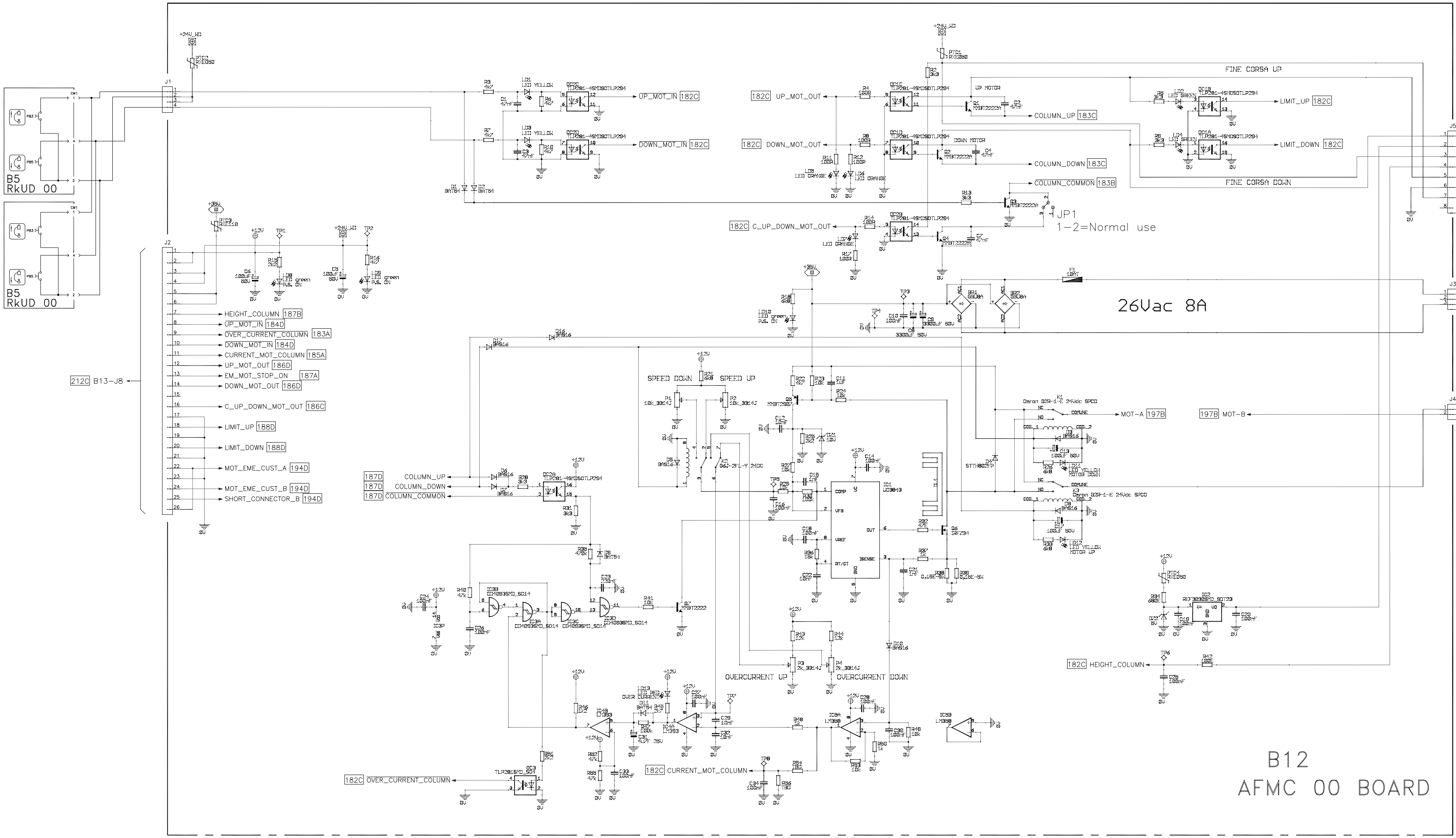
ACTIVE COOLING CONTROL BOARD

n° 74 218

Sheet

Dwn by	D.T.	Date 01-10-2020	Replace		Replaced by
Approved	F.C.	Date 01-10-2020	Valid from 03 037 7420		Up to

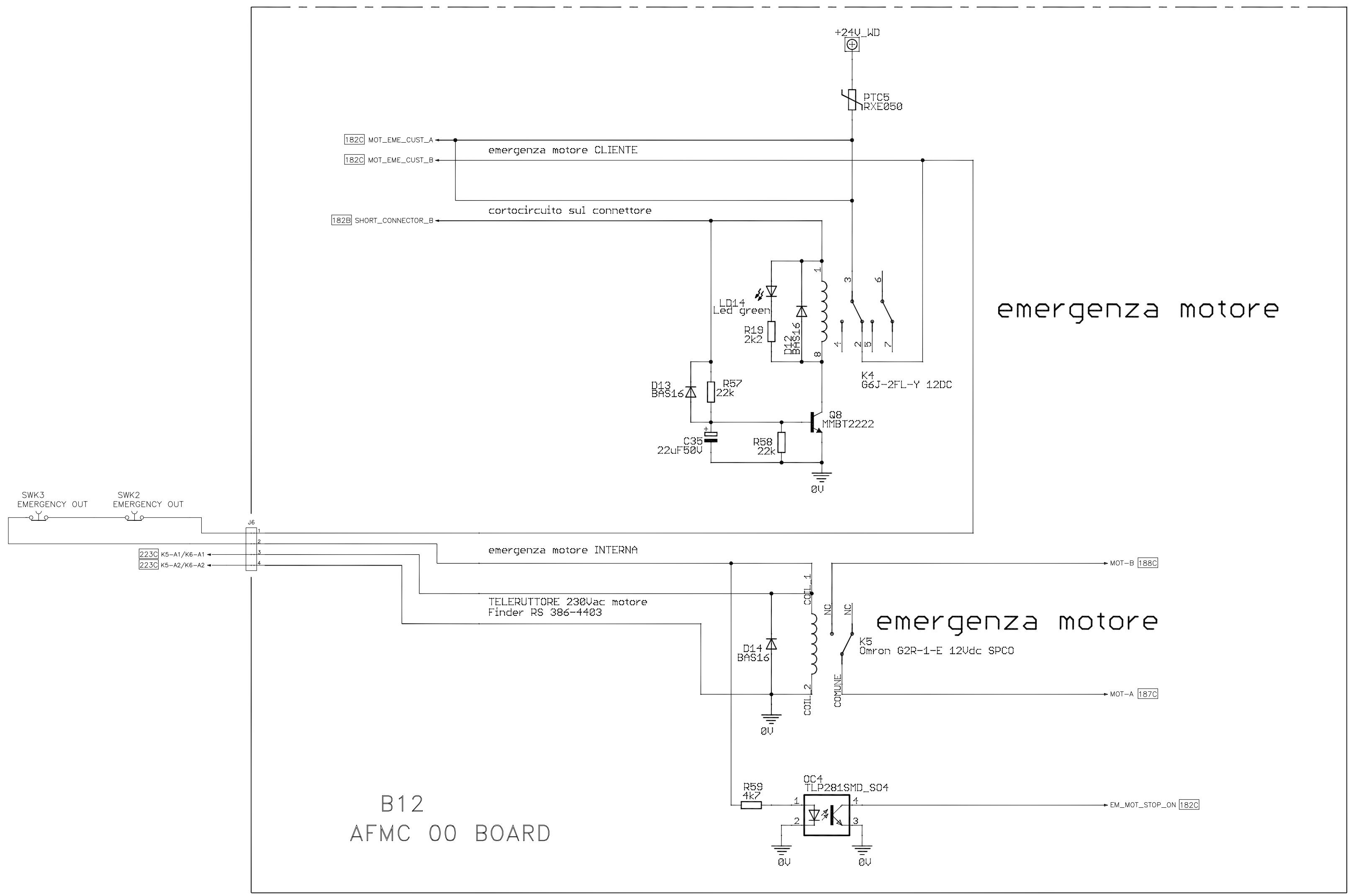
181 182 183 184 185 186 187 188 189 190



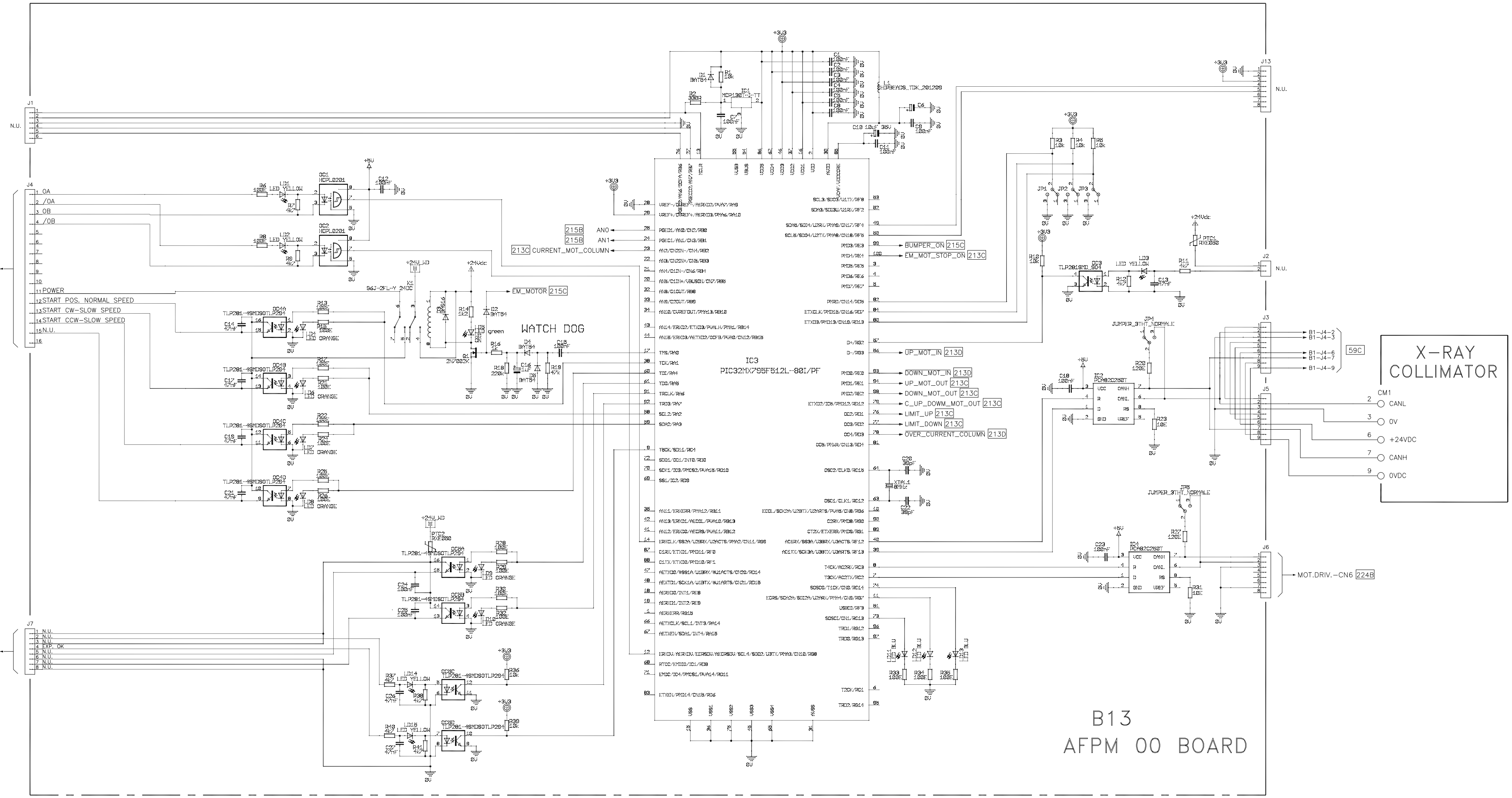
D C B A

ATS Applicazione Tecnologie Speciali srl	ARCO FP AFMC BOARD (B12)		n° 74 219-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace		Replaced by
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22		Up to

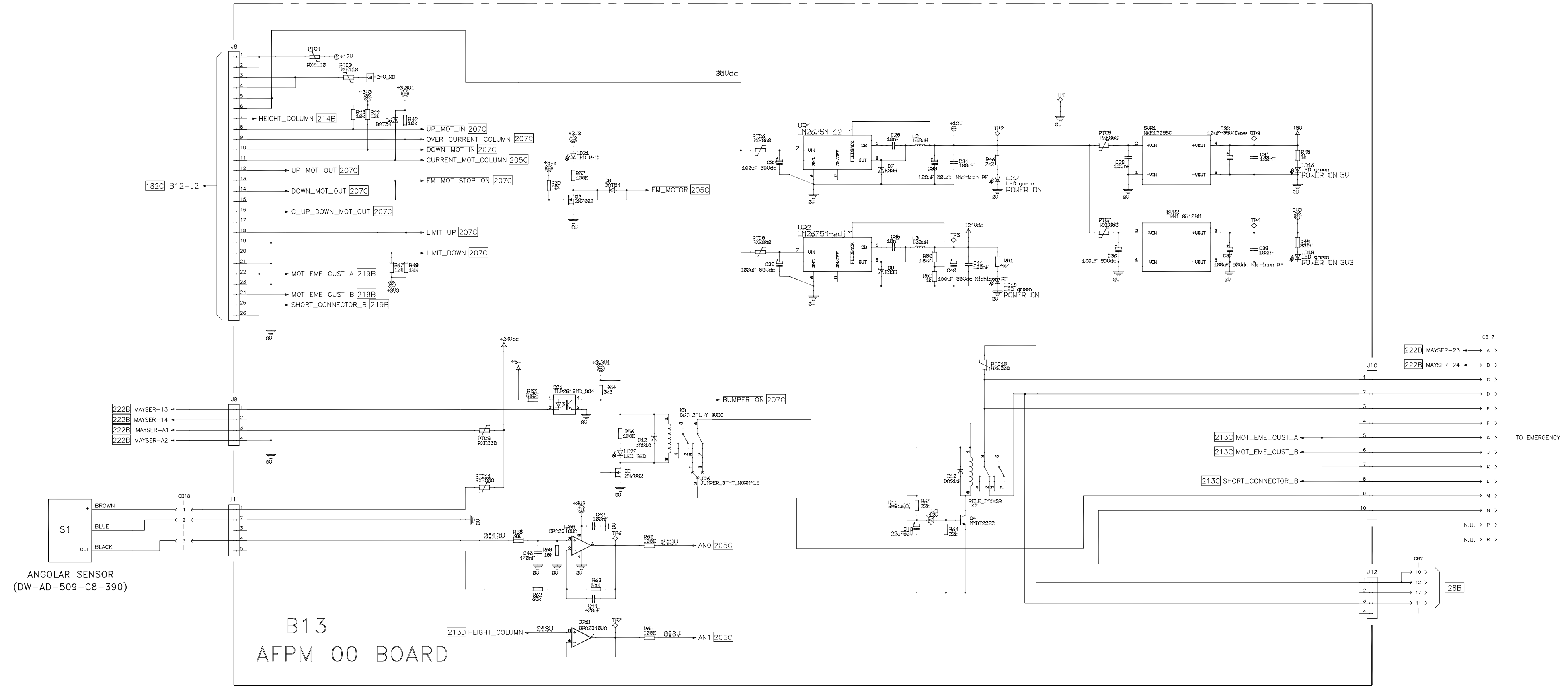
181 182 183 184 185 186 187 188 189 190



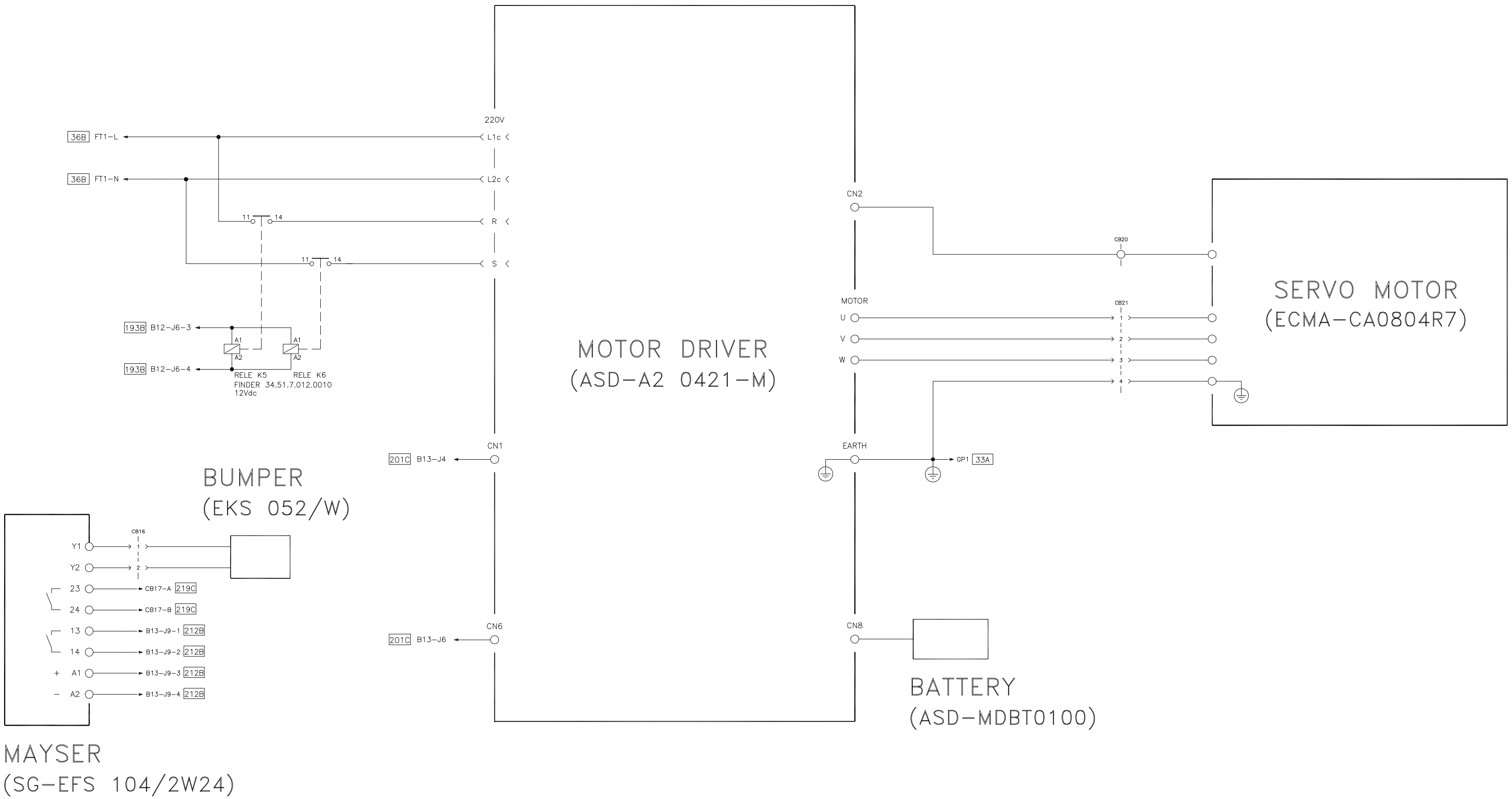
ATS Applicazione Tecnologie Speciali srl	ARCO FP AFMC BOARD (B12)		n° 74 220-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	



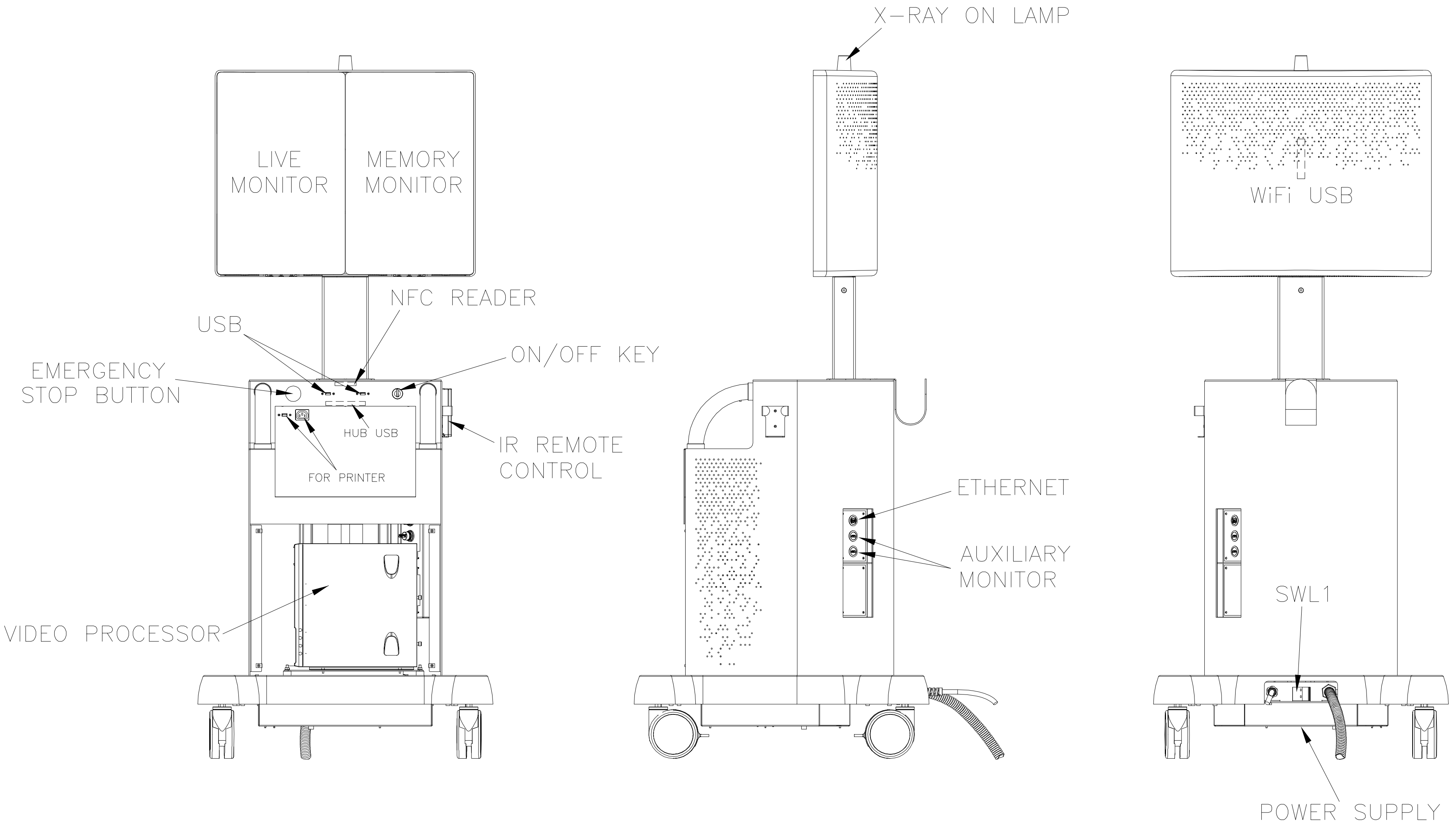
ATS Applicazione Tecnologie Speciali srl	ARCO FP AFPM BOARD (B13)		n° 74 221-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	



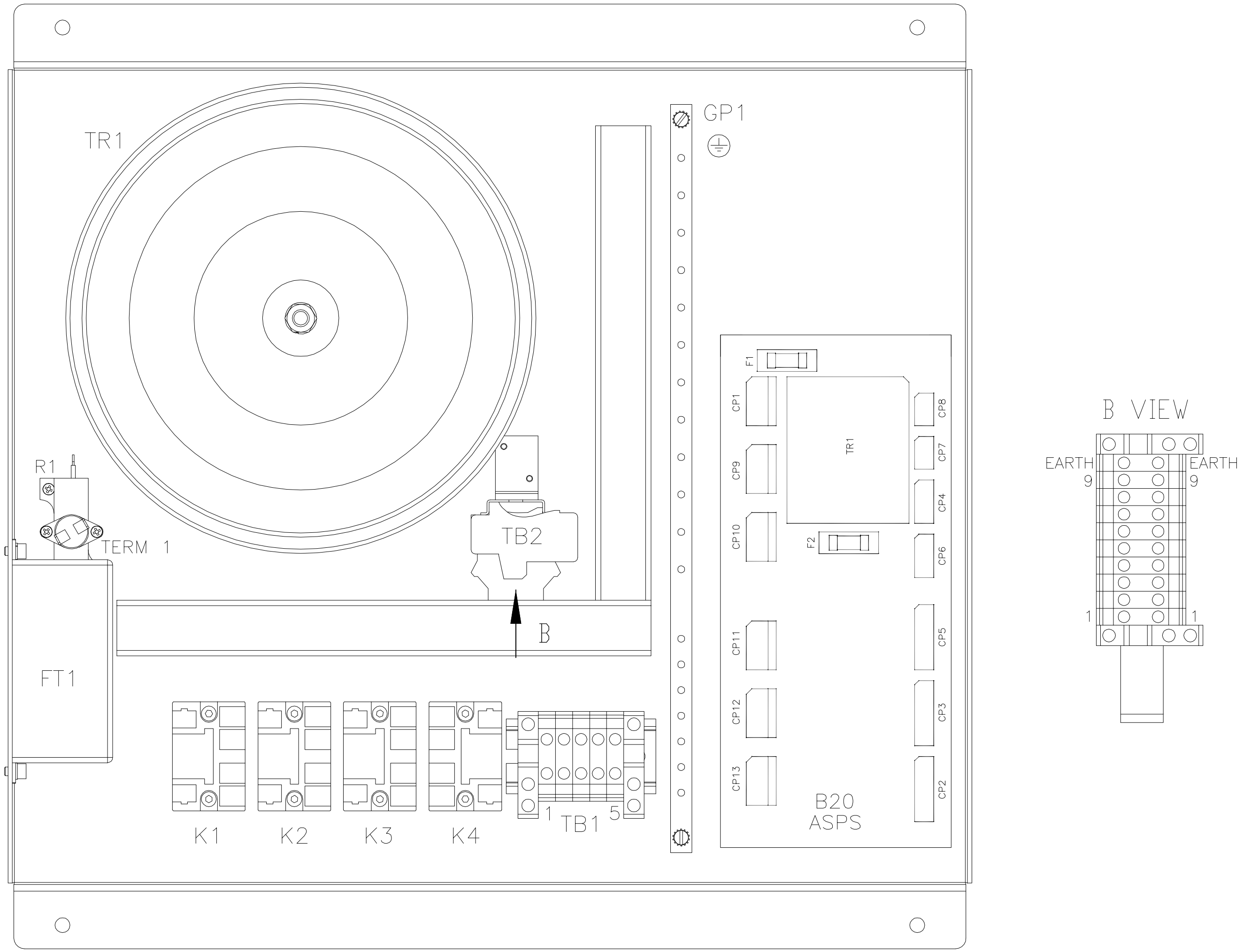
ATS Applicazione Tecnologie Speciali srl	ARCO FP AFPM BOARD (B13)		n° 74 222-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace		Replaced by
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22		Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP	MOTOR DRIVER LAYOUT	n° 74 223-MOT Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	

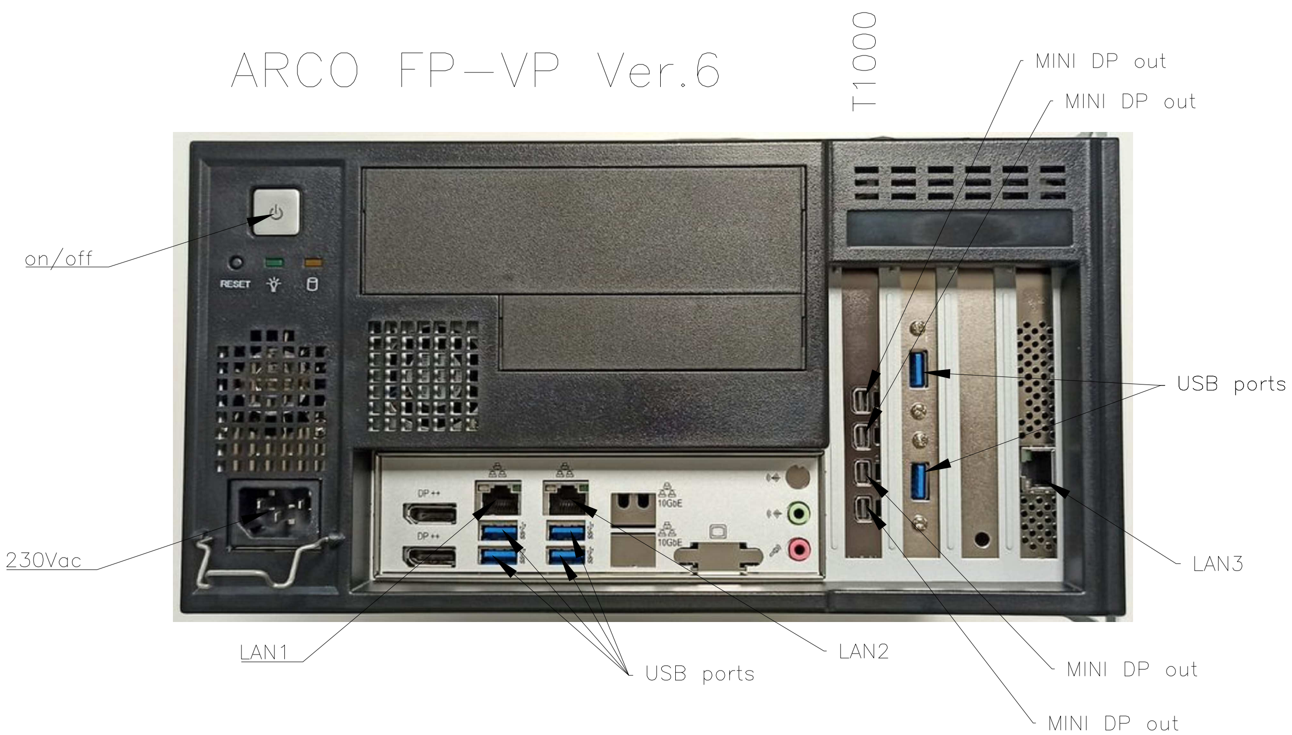


Applicazione Tecnologie Speciali srl		ARCO FP TROLLEY LAYOUT	n° 74 301B Sheet
Dwn by D.T.	Date 01-04-2022	Replace 74 301A	Replaced by
Approved F.C.	Date 01-04-2022	Valid from 03 044 74 22	Up to

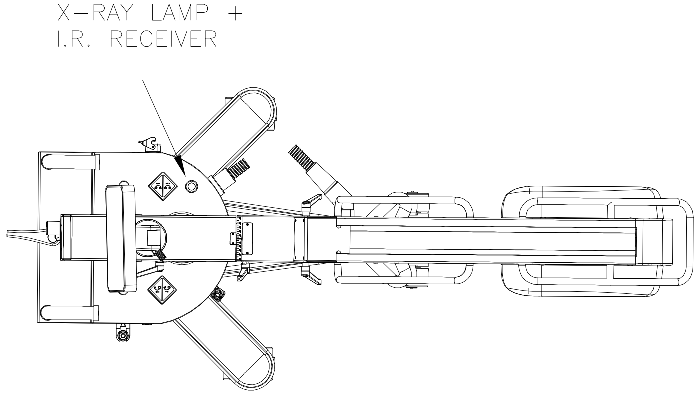


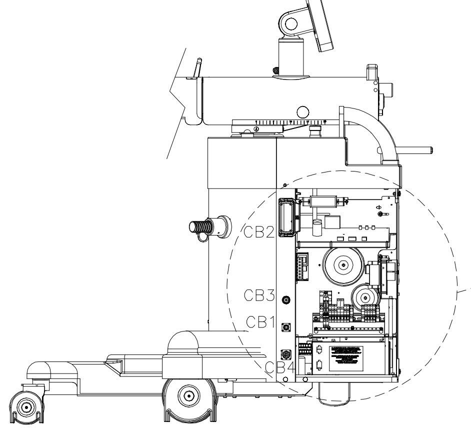
ATS Applicazione Tecnologie Speciali srl	ARCO FP TROLLEY POWER SUPPLY	n° 74 302 Sheet	
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

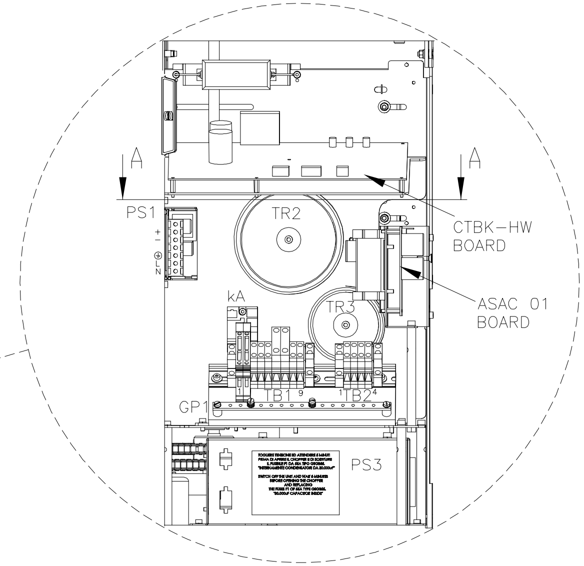
ARCO FP-VP Ver.6

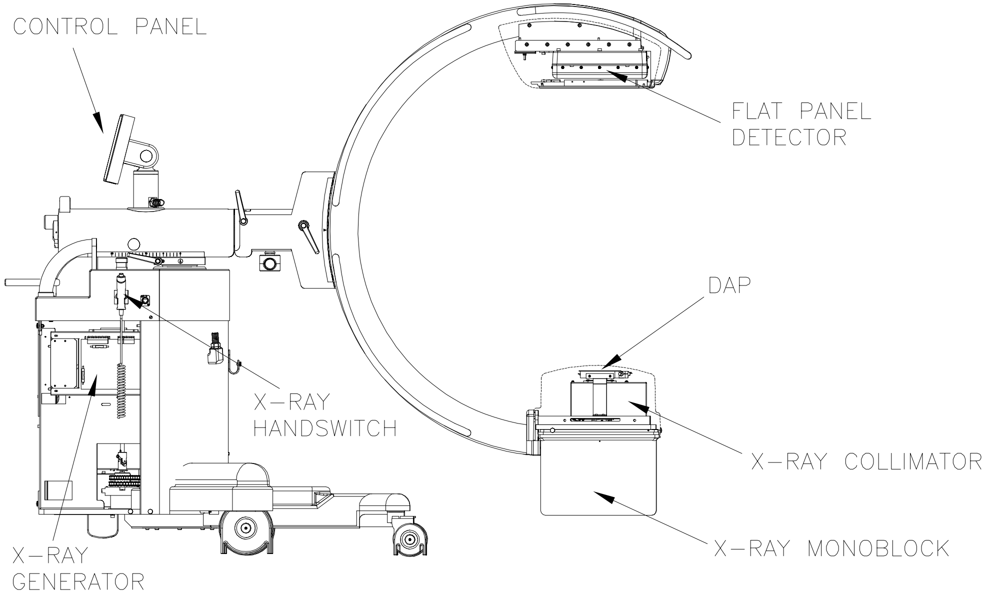


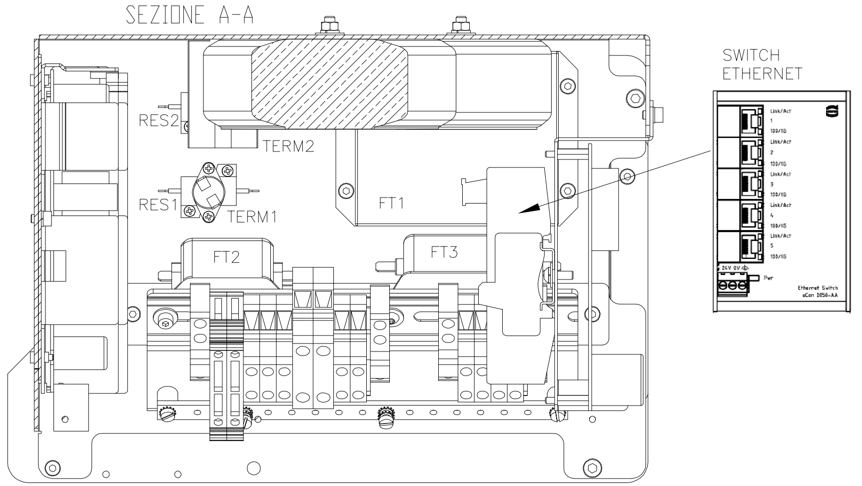
ATS Applicazione Tecnologie Speciali srl			ARCO FP VIDEO PROCESSOR LAYOUT		n° 74 303E Sheet
Dwn by	D.T.	Date 12-06-2024	Replace 74 303D	Replaced by	
Approved	P.V.	Date 12-06-2024	Valid from 03 089 74 24	Up to	



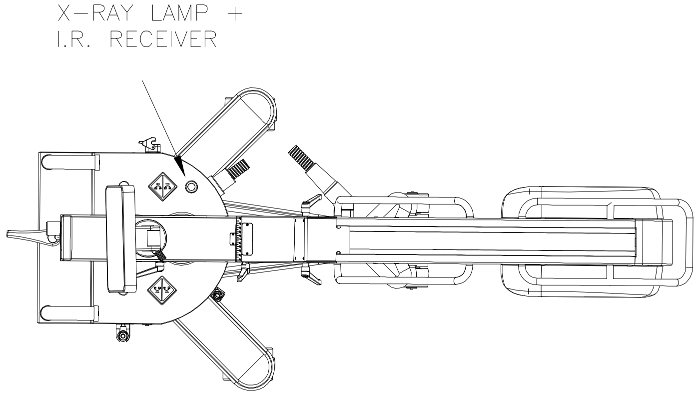


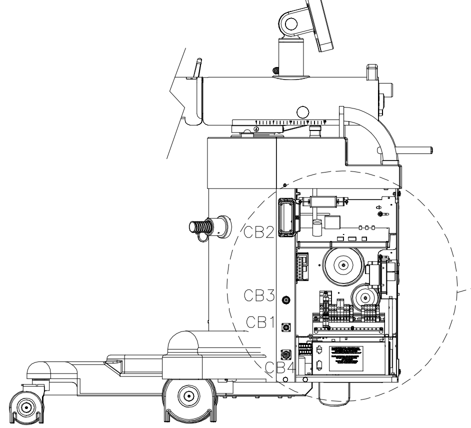


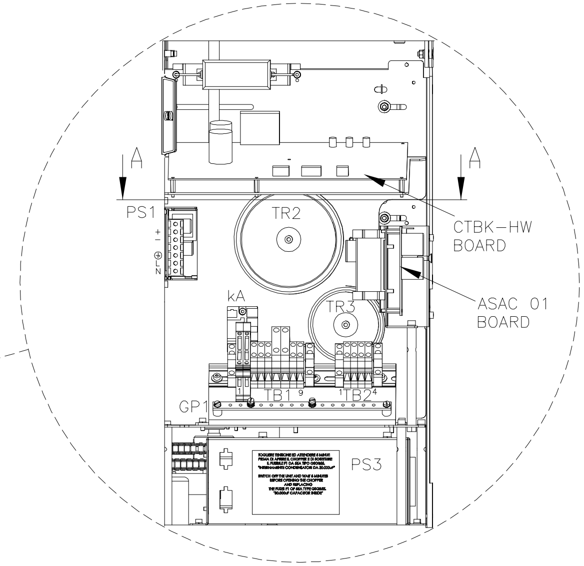


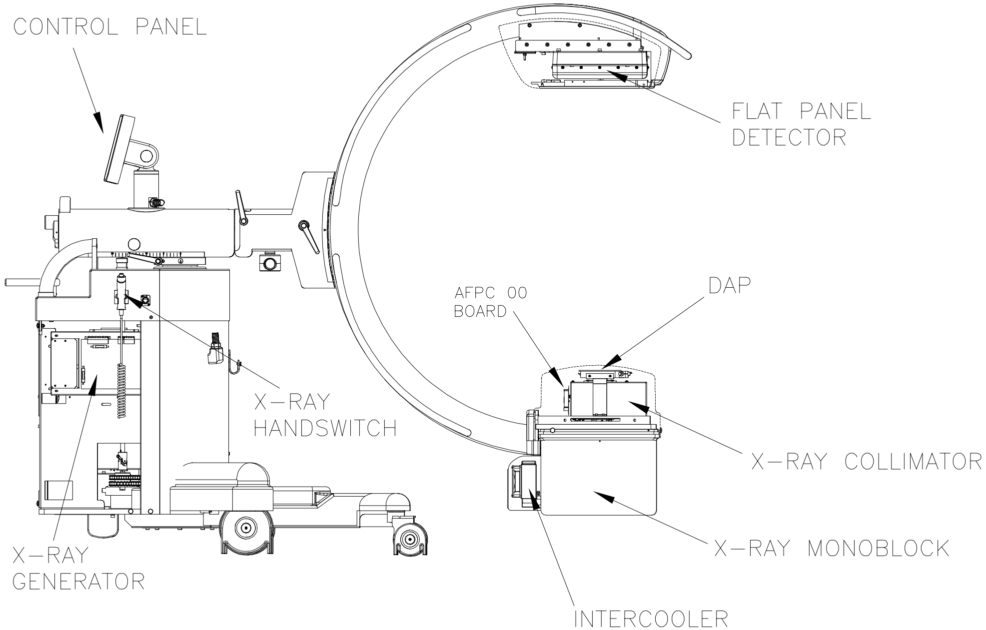


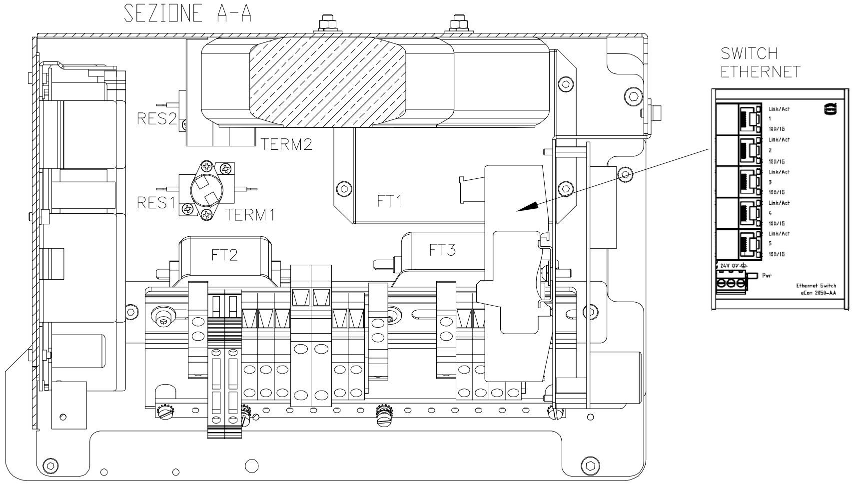
ATS Applicazione Tecnologie Speciali srl	ARCO FP C-ARM LAYOUT 5kW		n° 74 304A Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 304	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



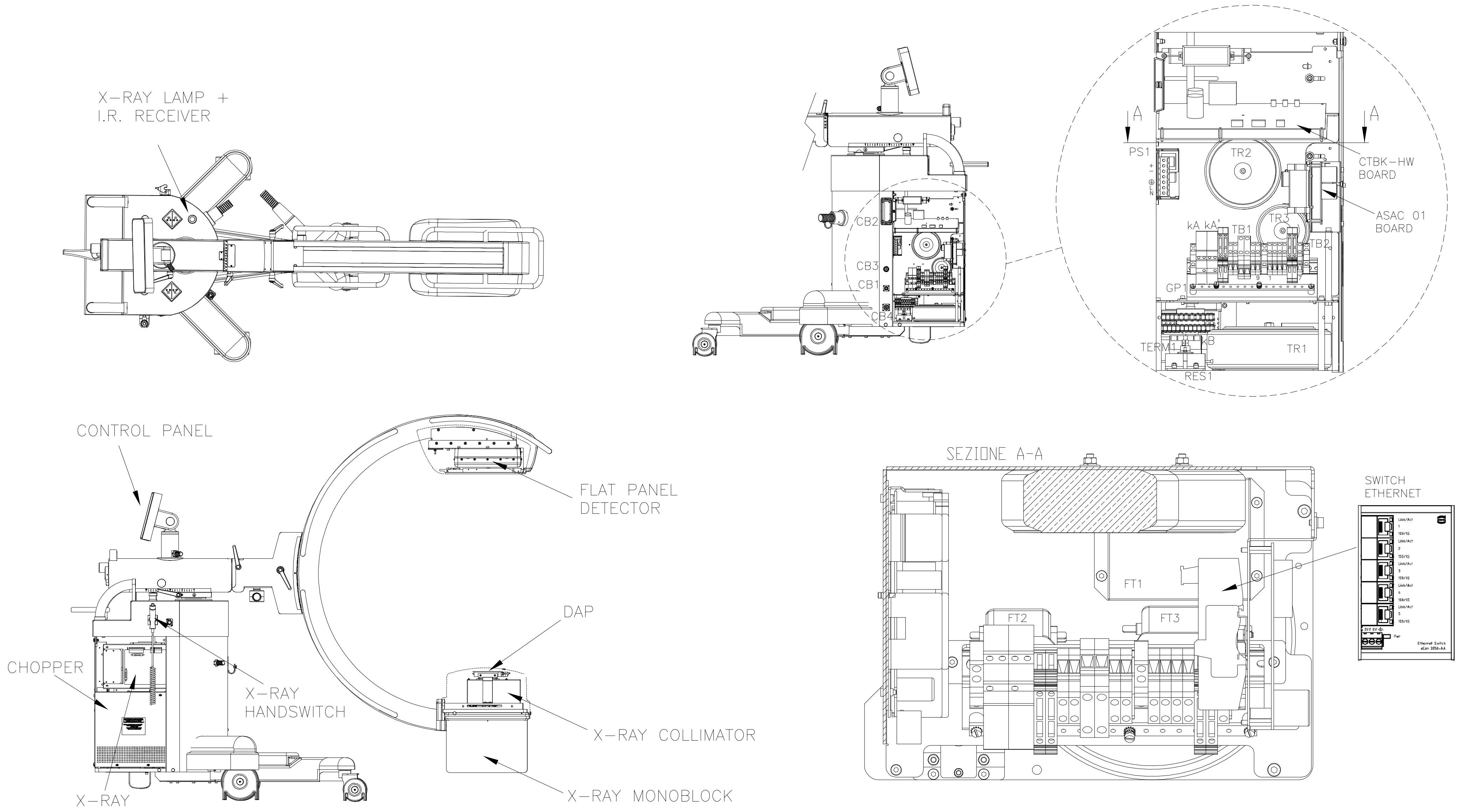




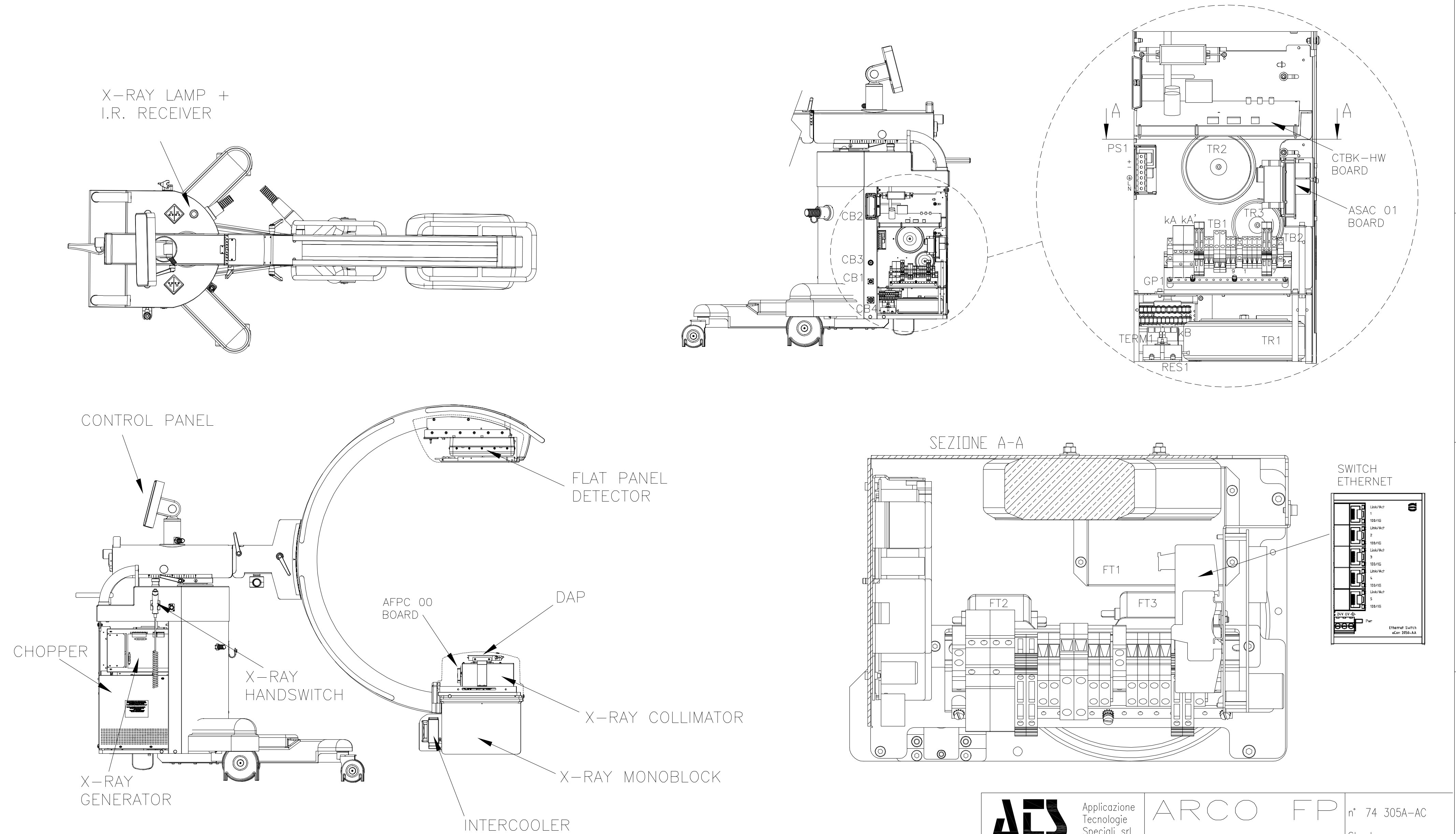




ATS	Applicazione Tecnologie Speciali srl	ARCO FP C-ARM LAYOUT 5kW	n° 74 304A-AC Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 304-AC	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to

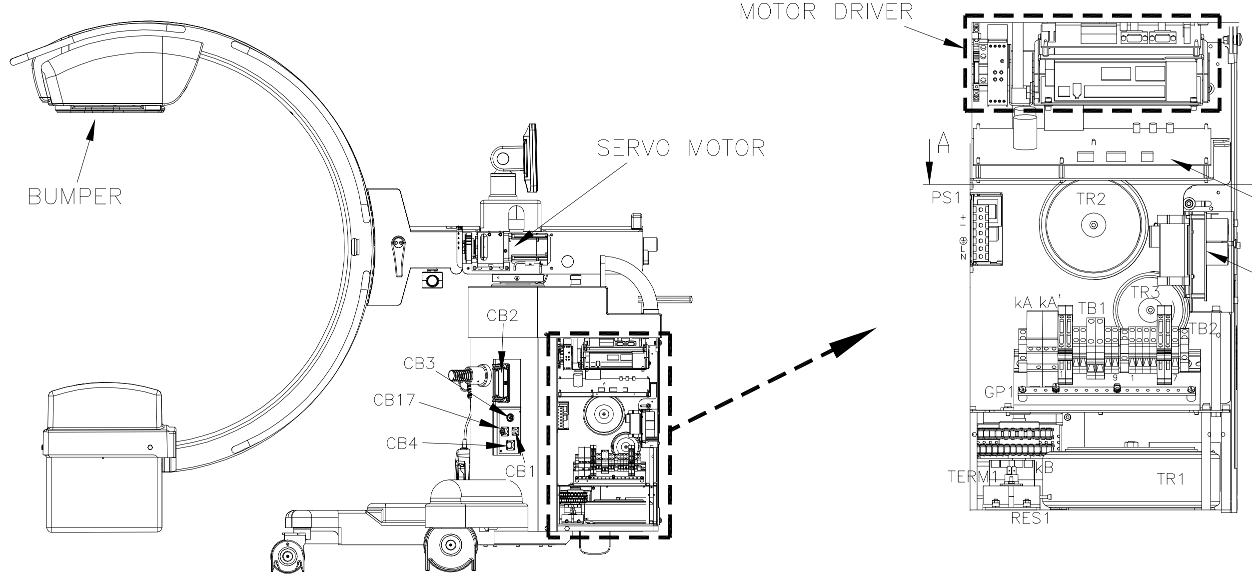


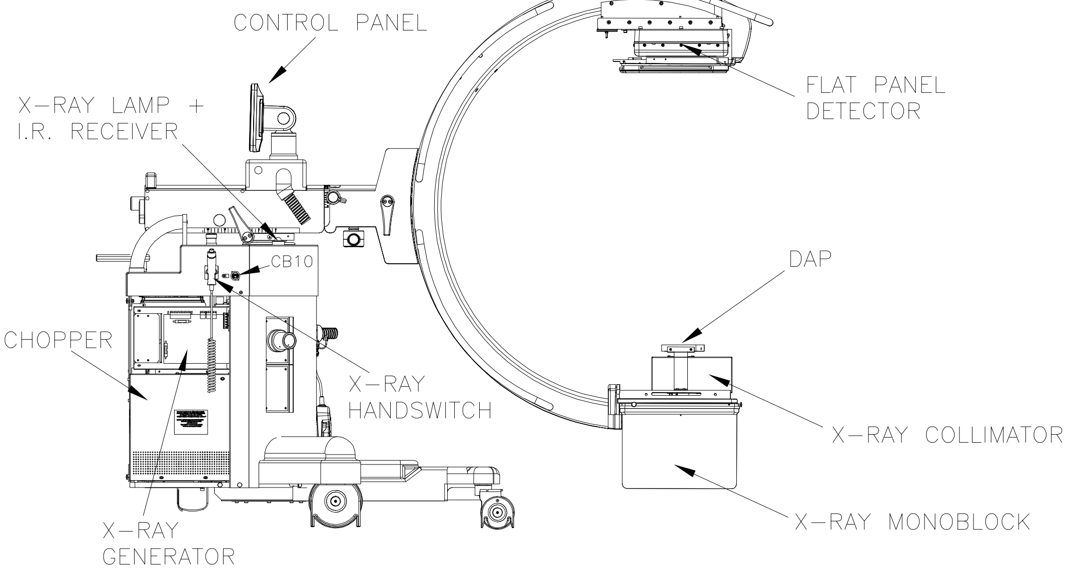
ATS Applicazione Tecnologie Speciali srl		ARCO FP C-ARM LAYOUT 20kW	n° 74 305A Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 305	Replaced by
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to



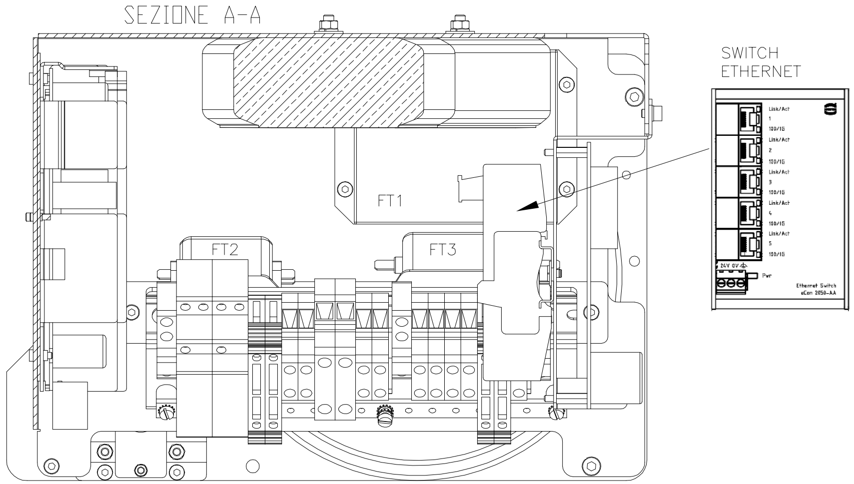
ATS	Applicazione Tecnologie Speciali srl	ARCO FP C-ARM LAYOUT 20kW		n° 74 305A-AC Sheet
Dwn by M.F.	Date 07-03-2023	Replace 74 305-AC	Replaced by	
Approved D.T.	Date 07-03-2023	Valid from 03 025 74 23	Up to	

CB1=X-RAY FOOTSWITCH
CB2=TROLLEY CONNECTION
CB3=EQUIPOTENTIAL EARTH POINT
CB4=INJECTOR
CB10=X-RAY HANDSWITCH
CB17=EXTERNAL EMERGENCY

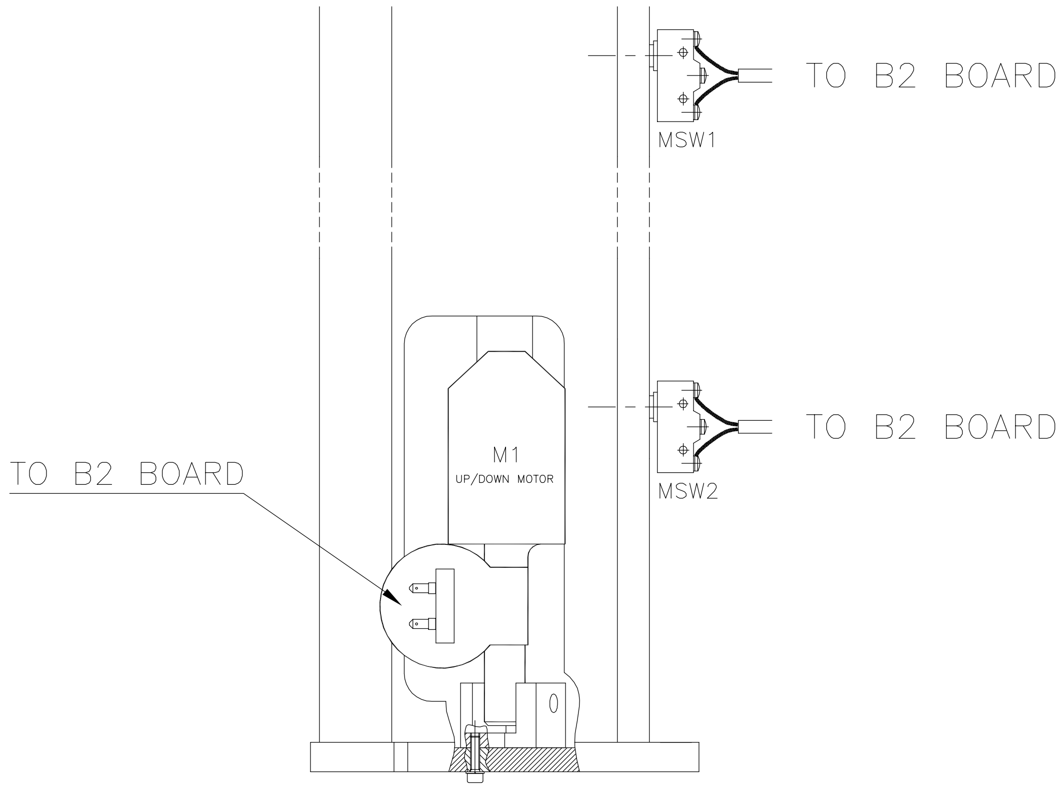




SEZIONE A-A

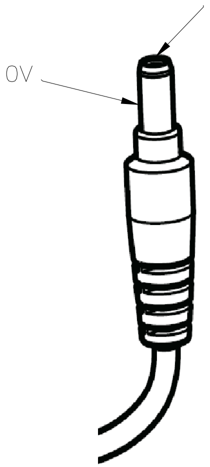


ATS Applicazione Tecnologie Speciali srl	ARCO FP C-ARM LAYOUT 20kW		n° 74 305A-MOT Sheet
Dwn by M.F. Date 07-03-2023	Replace 74 305-MOT	Replaced by	
Approved D.T. Date 07-03-2023	Valid from 03 025 74 23	Up to	

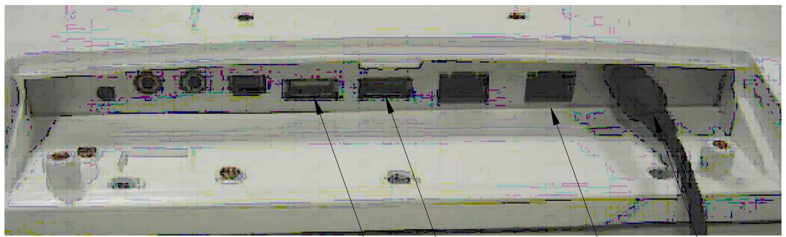


ATS Applicazione Tecnologie Speciali srl	ARCO FP UP/DOWN MOTOR LAYOUT	n° 74 306 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to

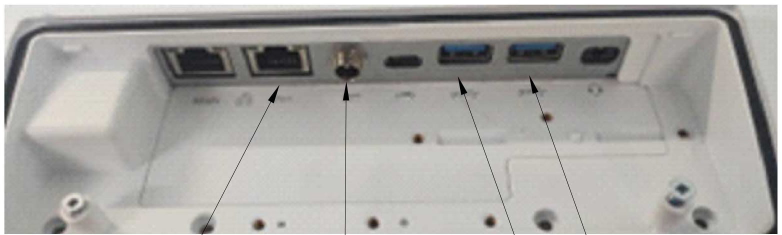
POWER SUPPLY CONNECTOR



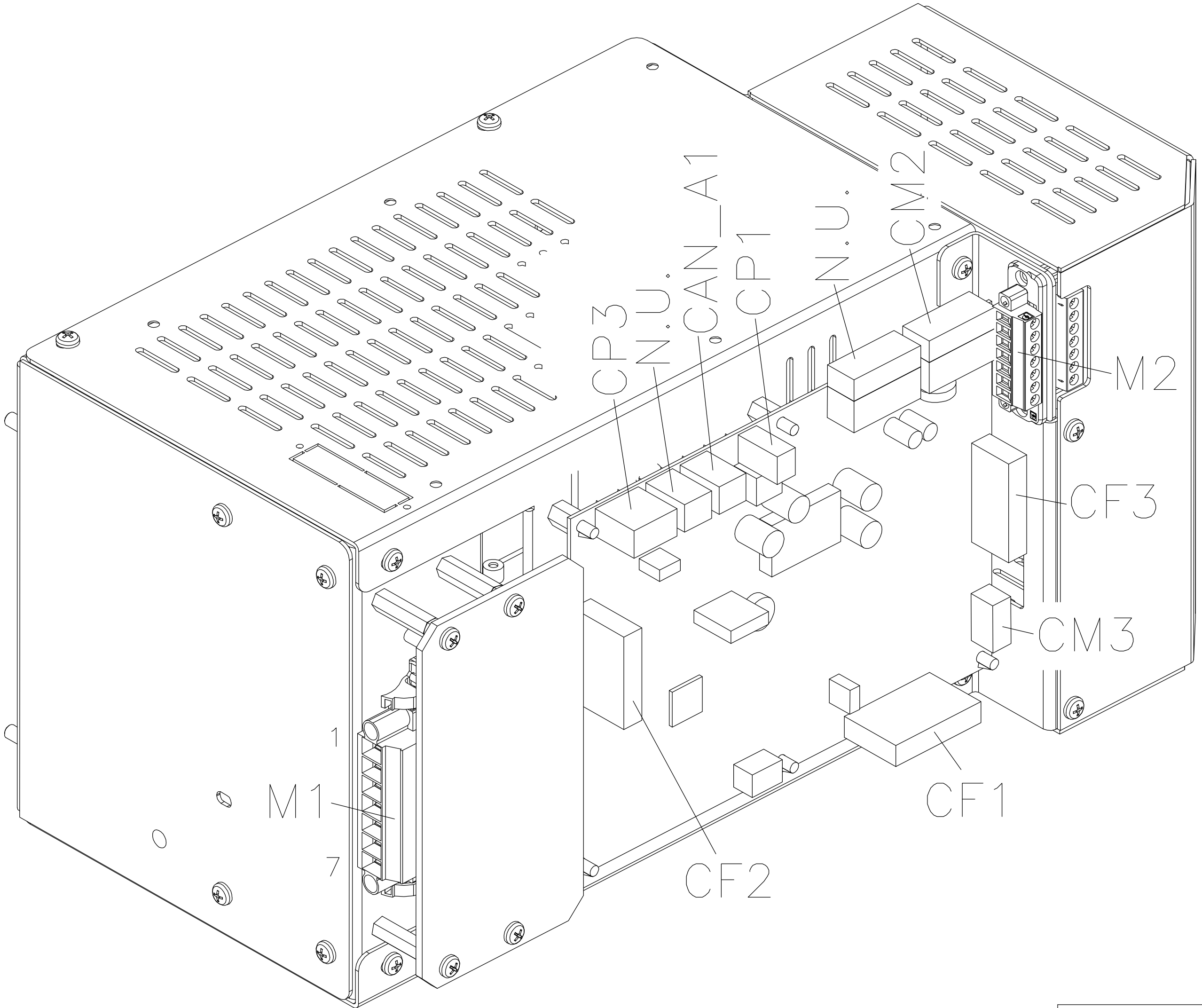
CONTROL PANEL 12" (MIUP–2212)



CONTROL PANEL 13" (MIUP–2213)



ATS Applicazione Tecnologie Speciali srl	ARCO FP CONTROL PANEL LAYOUT		n° 74 307 Sheet
Dwn by D.T. Date 06-10-2023	Replace	Replaced by	
Approved P.V. Date 06-10-2023	Valid from 02 001 74 17	Up to	



Applicazione Tecnologie Speciali srl	ARCO FP X-RAY GENERATOR LAYOUT		n° 74 308 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

LED DESCRIPTION:

DL1 = +24V
DL2 = COM. FAULT
DL3 = COM. OK
DL4 = Δ kV MAX
DL5 = kV>110%
DL6 = kV MIN
DL7 = mA RX MAX
DL4+5+6+7=24V UNDERVOLTAGE
DL6+7=MONOBLOCK TERMIC S.

DL6 on
allarm during x-ray

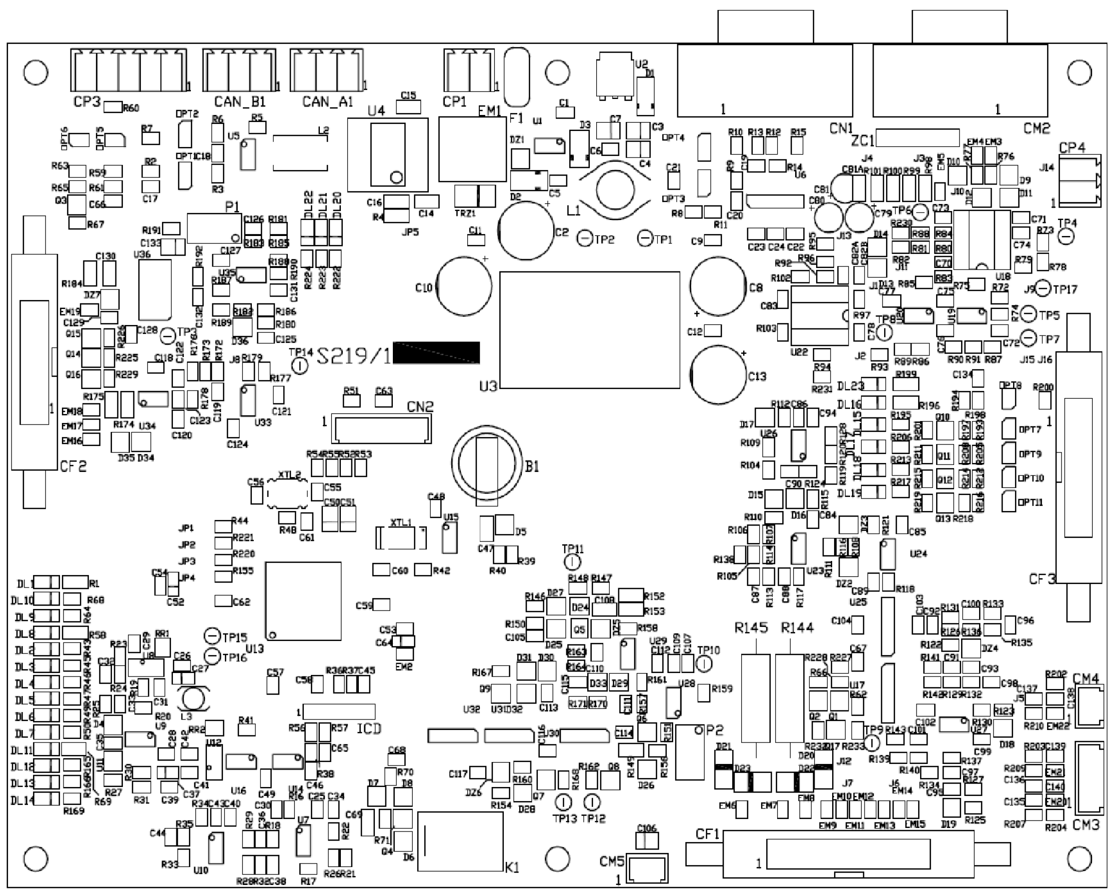
DL6 blink
allarm during rise time

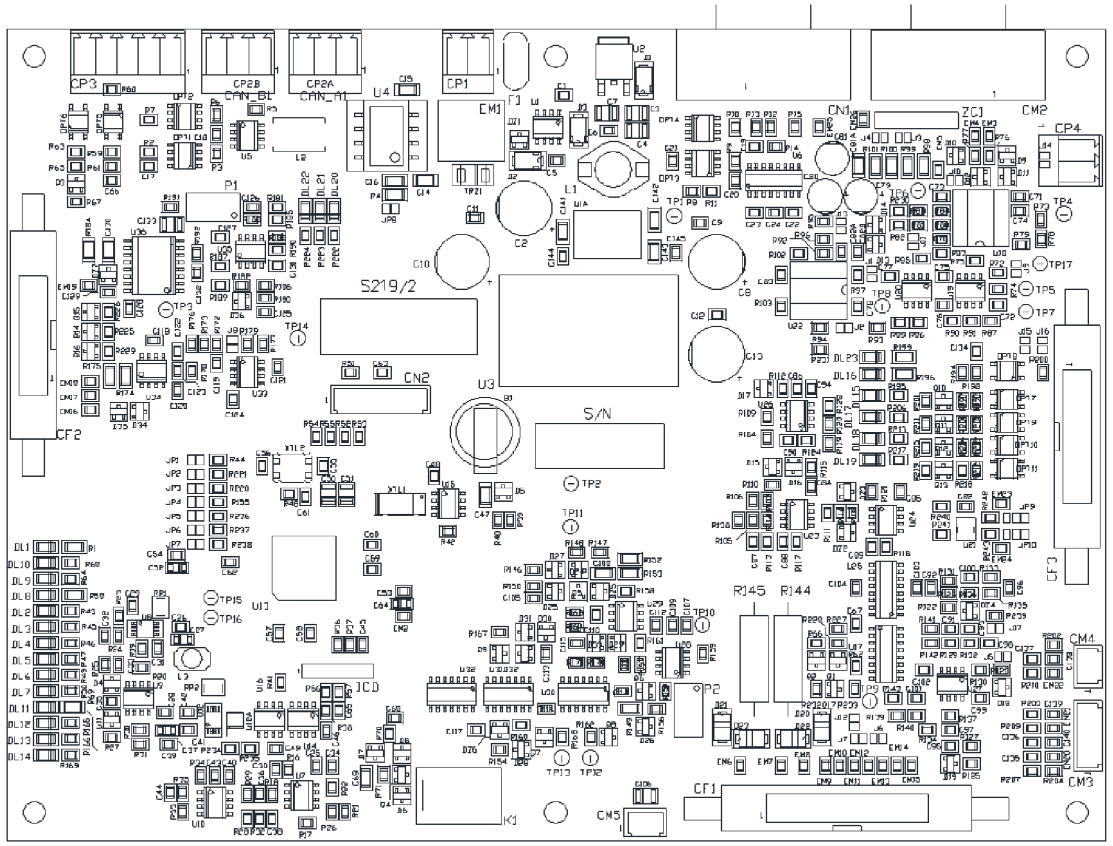
DL8 = COM_RX HW
DL9 = kV>85% HW
DL10 = COM_RX
DL11 = ON INVERTER
DL12 = PWM COM. "B"
DL13 = PWM COM. "A"
DL14 = PRE_RX
DL15 = STARTER RAD
DL16 = STARTER OK
DL17 = STARTER FLUORO
DL18 = N.U.
DL19 = N.U.
DL20 = FILAMENT FAULT
DL21 = FILAMENT OK
DL22 = SMALL FILAMENT
DL23 = HI mA scale

CONNETTOR DESCRIPTION:
CN1 = RS232 (N.U.)
CM2 = FEED-BACK MONOB.
CM3 = TERM. ; NTC MONOB.
CM4 = NTC INV. (N.U.)

CP1 = +24Vcc SUPPLY
CAN_A1 = CAN BUS
CAN_B1 = CAN BUS (N.U.)
CP3 = HARDWARE I/O

CF1 = COM. DRIVER PSM15
CF2 = COM. FILAMENT S223
CF3 = COM. STARTER PSM20



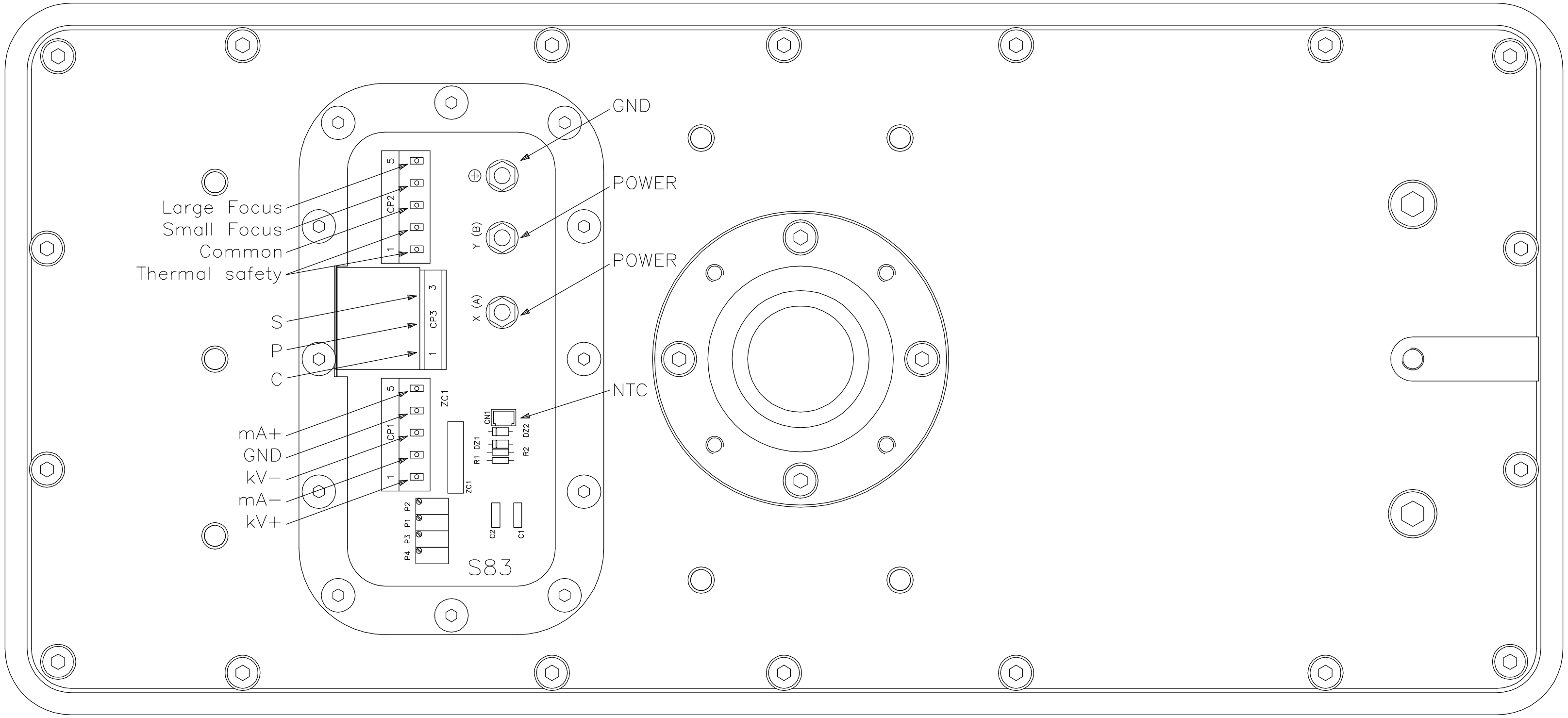


TEST POINT DESCRIPTION:

TP1 = +5Vdc
TP2 = GND
TP3 = FILAMENT FREQ.
TP4 = kV+ (+1V=+10KV)
TP5 = kV TUBE (-1V=30KV)
TP6 = kV- (-1V=-10KV)
TP7 = SET kV (1V=30KV)
TP8 = mA current (1V=100mA* Hi)
(1V=10mA* Low)
TP9 = I PRIM (1V=20A)
TP10 = SWITCHING FREQ.
TP11 = PWM COM.
TP12 = COM "B"
TP13 = COM "A"
TP14 = FIL. CUR. (1V=100mA)
TP15 = N.U.
TP16 = N.U.

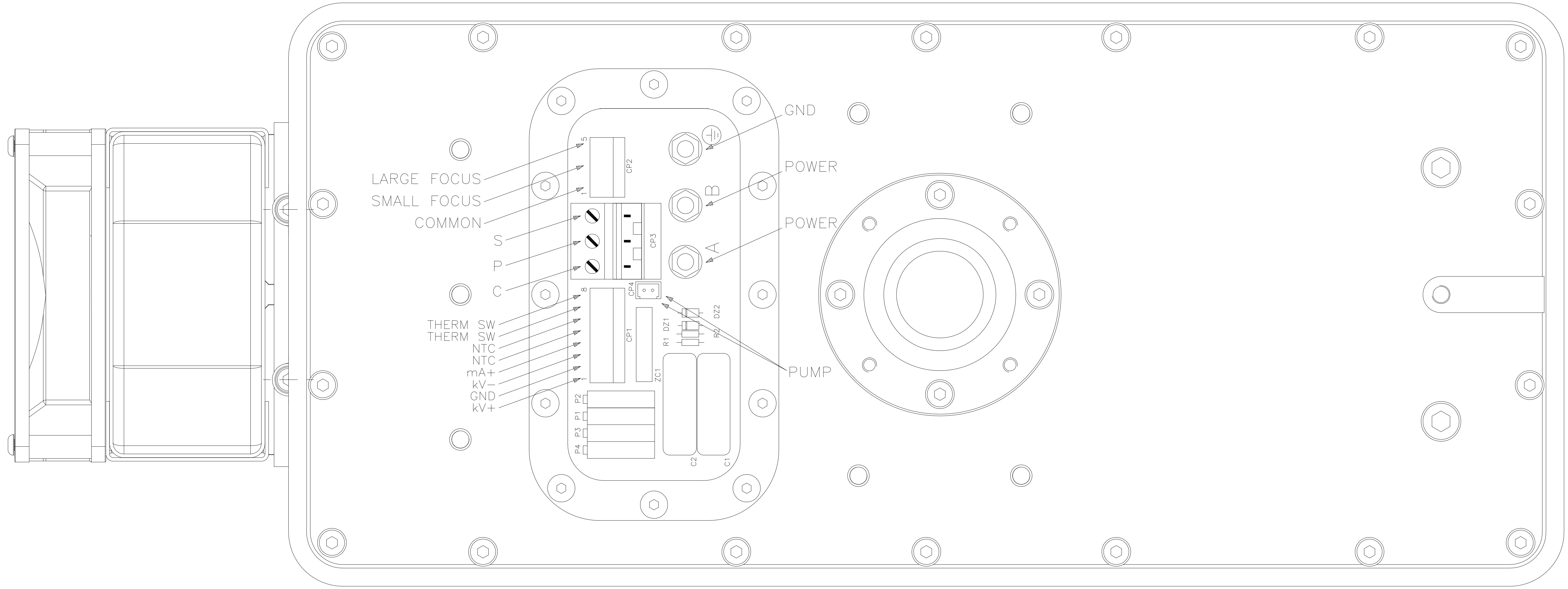
ATS Applicazione Tecnologie Speciali srl	ARCO FP S219 BOARD (X-RAY GEN.)		n° 74 309 Sheet
wn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

X–RAY TUBE ASSEMBLY

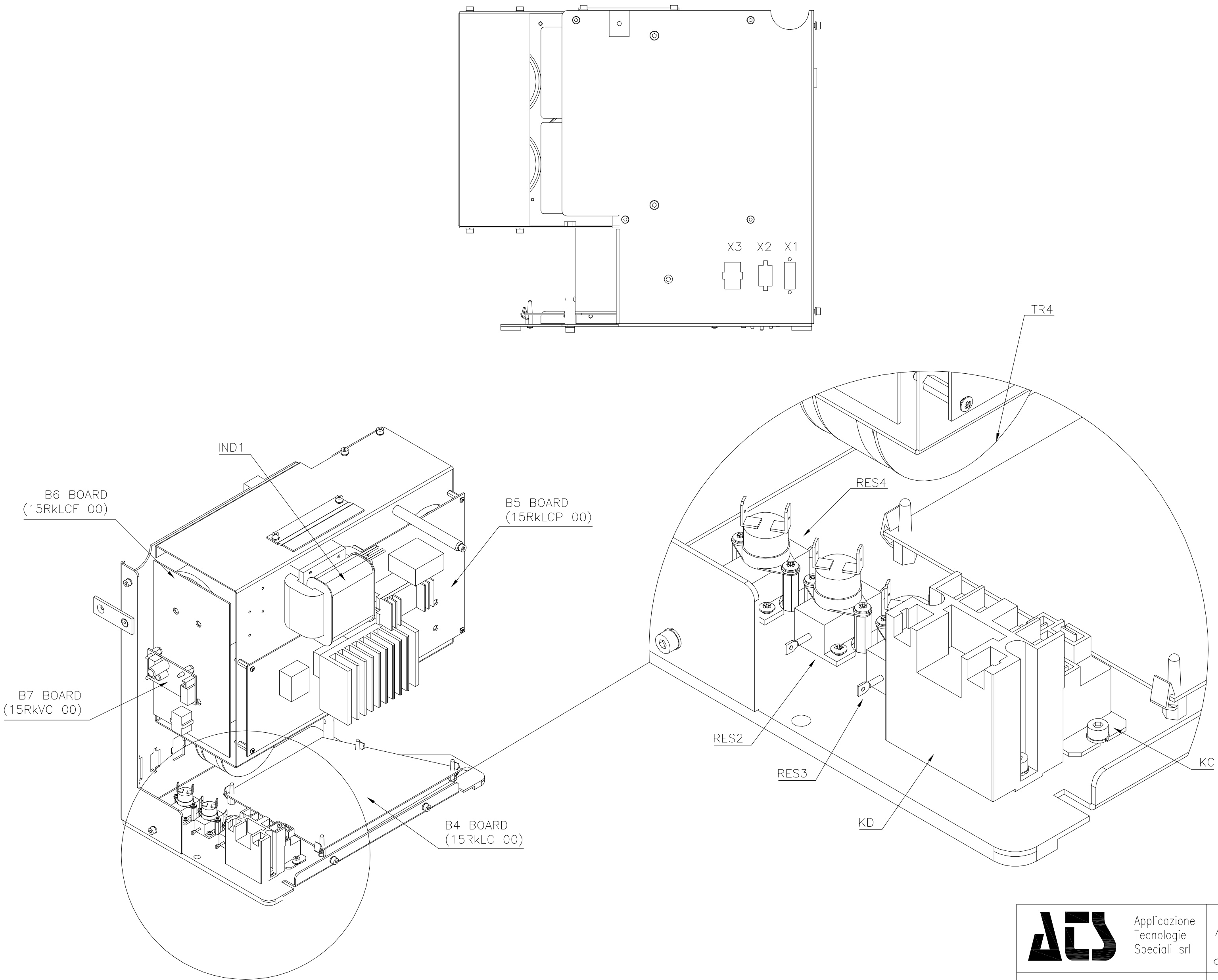


Applicazione Tecnologie Speciali srl		ARCO FP S83 BOARD (X–RAY TUBE)	n° 74 310 Sheet
Dwn by D.T.	Date 08-09-2017	Replace	Replaced by
Approved F.C.	Date 08-09-2017	Valid from 02 001 74 17	Up to

X–RAY TUBE ASSEMBLY

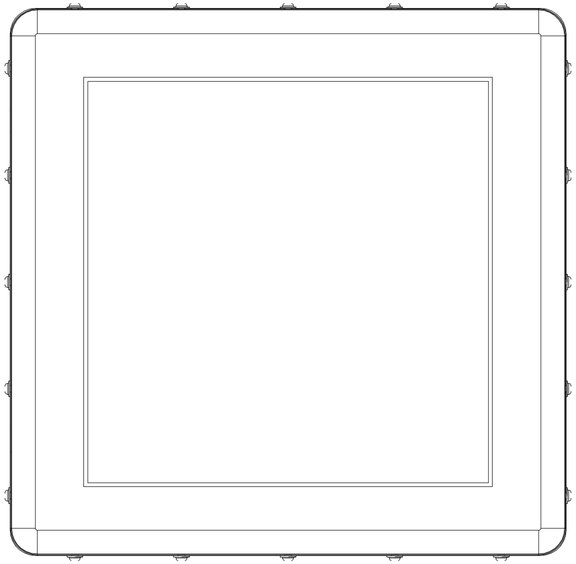


Applicazione Tecnologie Speciali srl	ARCO FP PSM26 BOARD (X–RAY TUBE)		n° 74 310-AC Sheet
Dwn by D.T. Date 01-10-2020	Replace	Replaced by	
Approved F.C. Date 01-10-2020	Valid from 03 037 74 20	Up to	

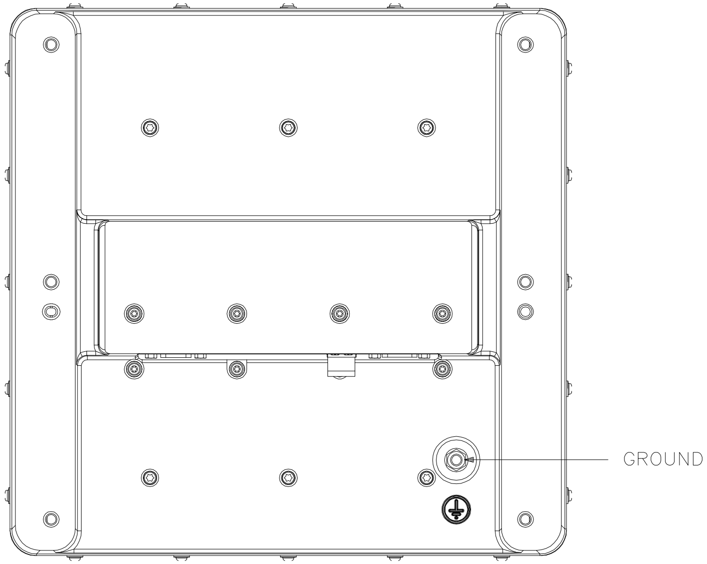


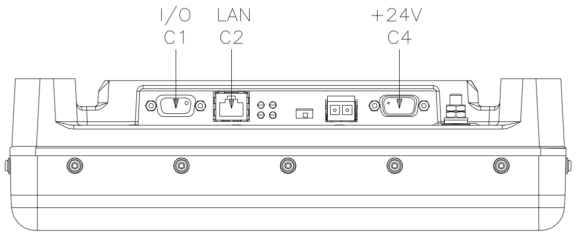
ATS	Applicazione Tecnologie Speciali srl	ARCO FP CHOPPER LAYOUT	n° 74 311 Sheet
Dwn by D.T.	Date 28-04-2020	Replace	Replaced by
Approved F.C.	Date 28-04-2020	Valid from 02 001 74 17	Up to

FRONT

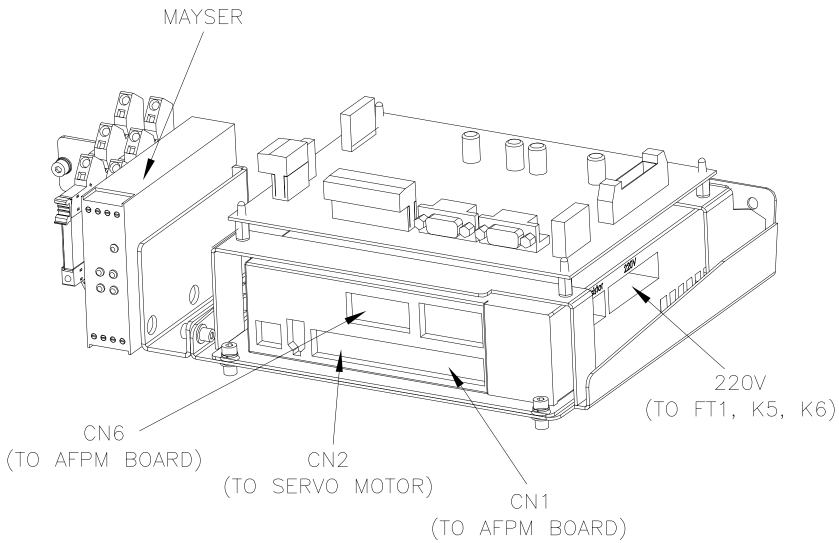


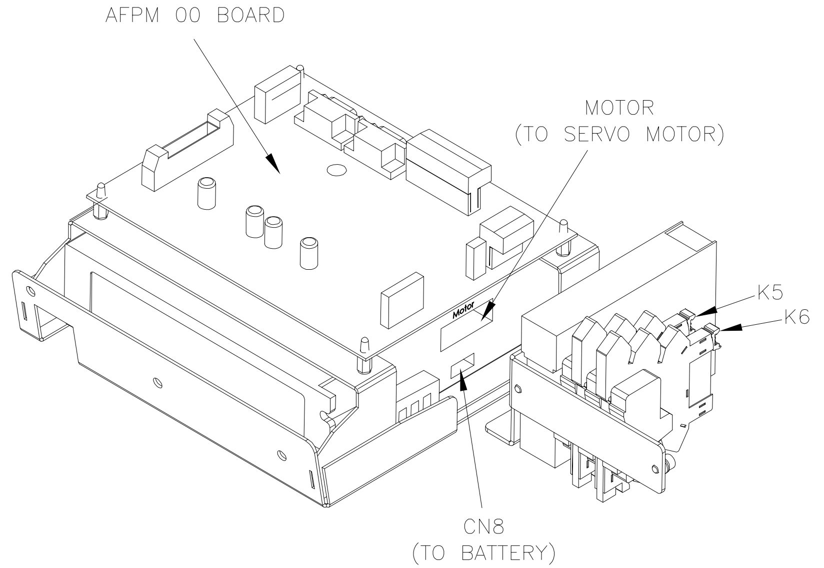
REAR



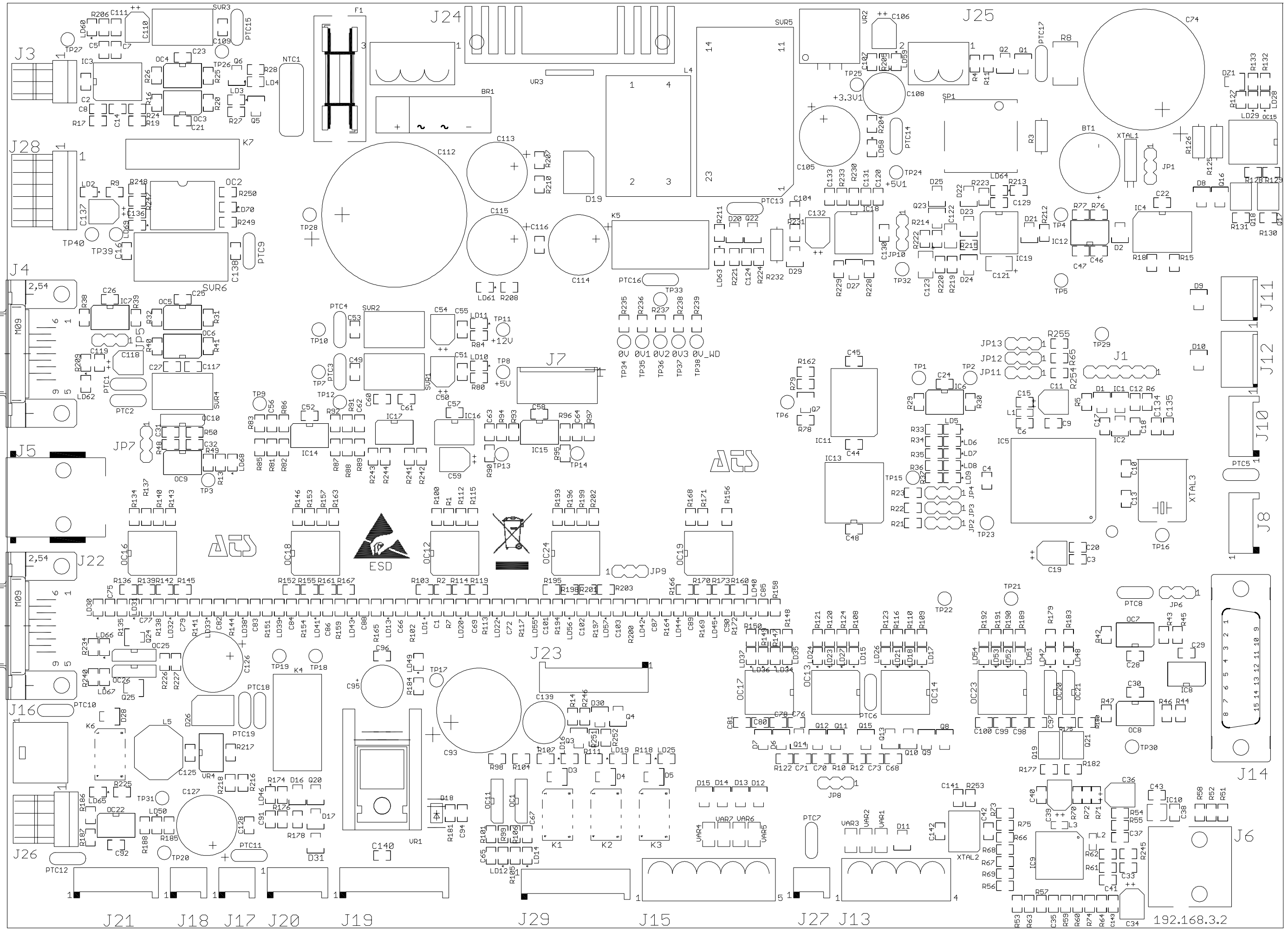


ATS Applicazione Tecnologie Speciali srl	ARCO FP FLAT PANEL DETECTOR LAYOUT		n° 74 312 Sheet
Dwn by M.F. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

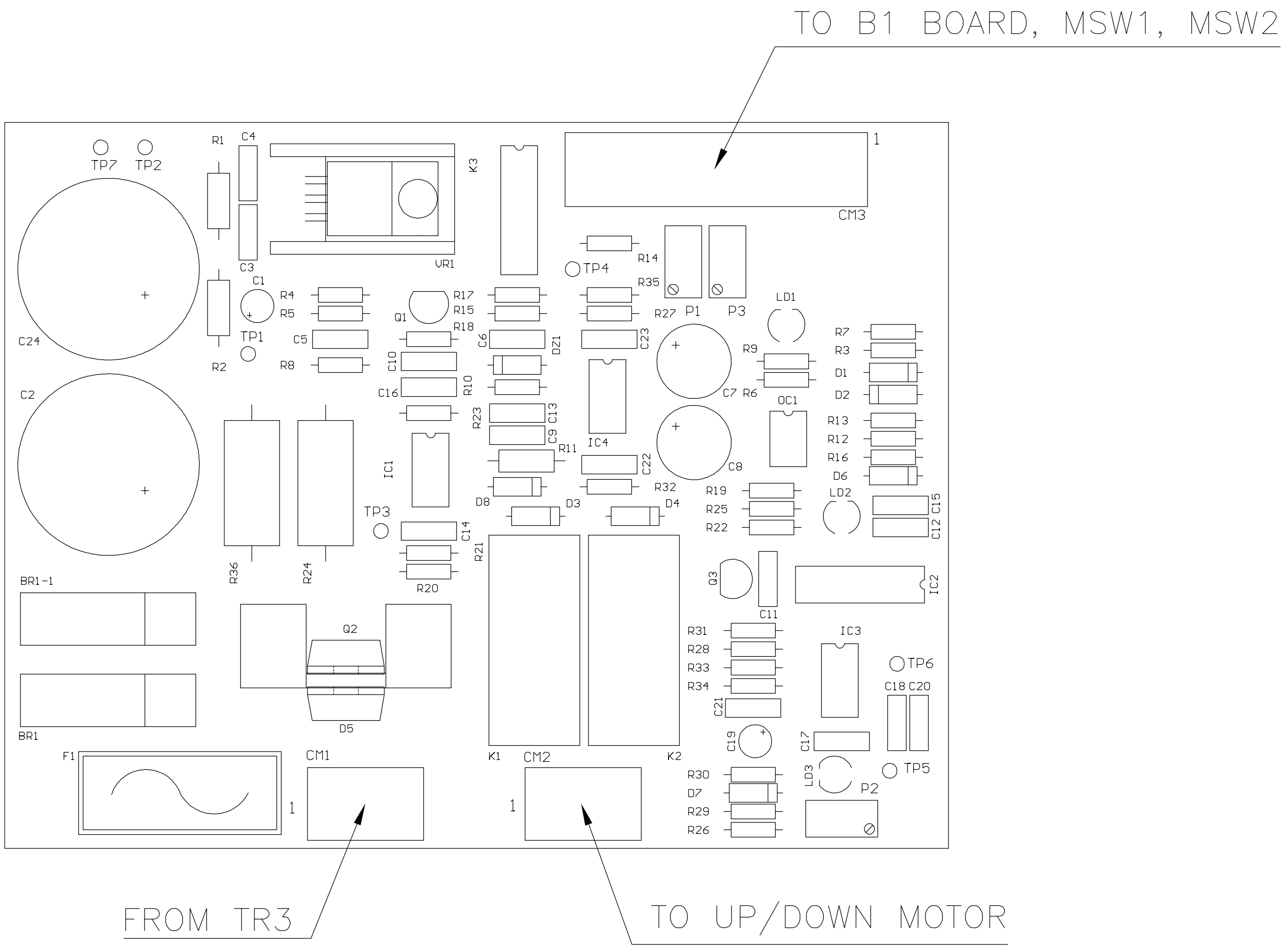




ACS Applicazione Tecnologie Speciali srl	ARCO FP MOTOR DRIVER LAYOUT		n° 74 313 Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	



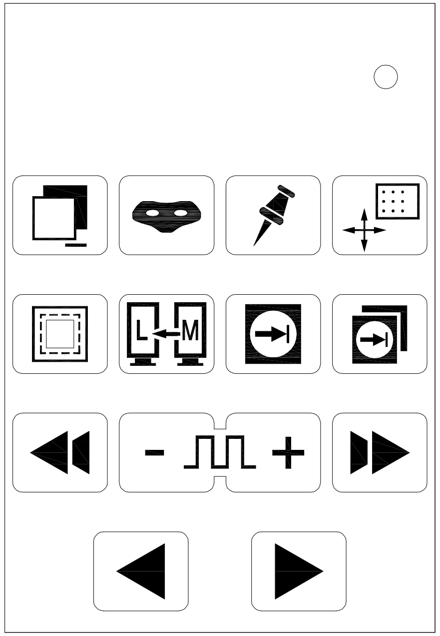
ATS Applicazione Tecnologie Speciali srl	ARCO FP B1 BOARD (CTBK-HW)	n° 74 01 100B Sheet
Dwn by D.T. Date 12-12-2019	Replace 74 01 100A	Replaced by
Approved F.C. Date 12-12-2019	Valid from 02 021 74 19	Up to



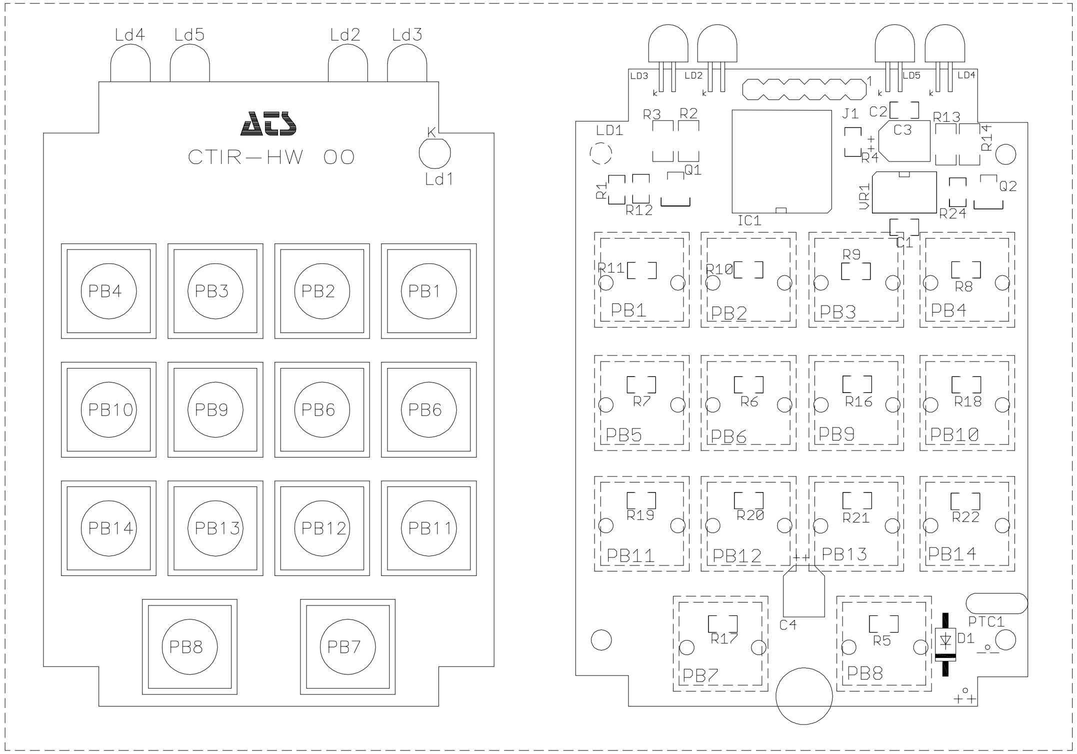
ATS Applicazione Tecnologie Speciali srl	ARCO FP B2 BOARD (ASAC 01)		n° 19 10 010A Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

1 2 3 4 5 6 7 8 9 10

D C B A

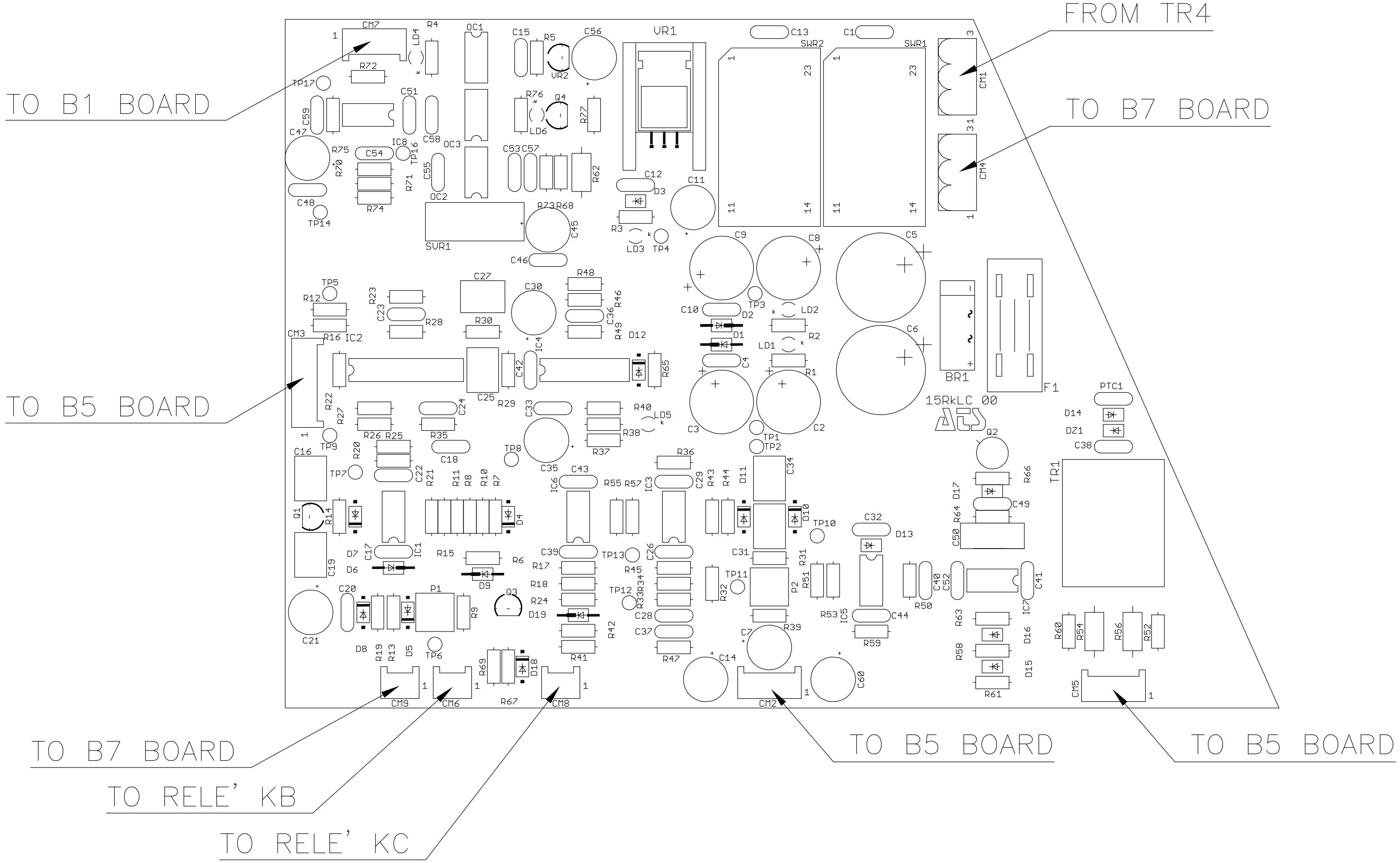


TRANSMITTER

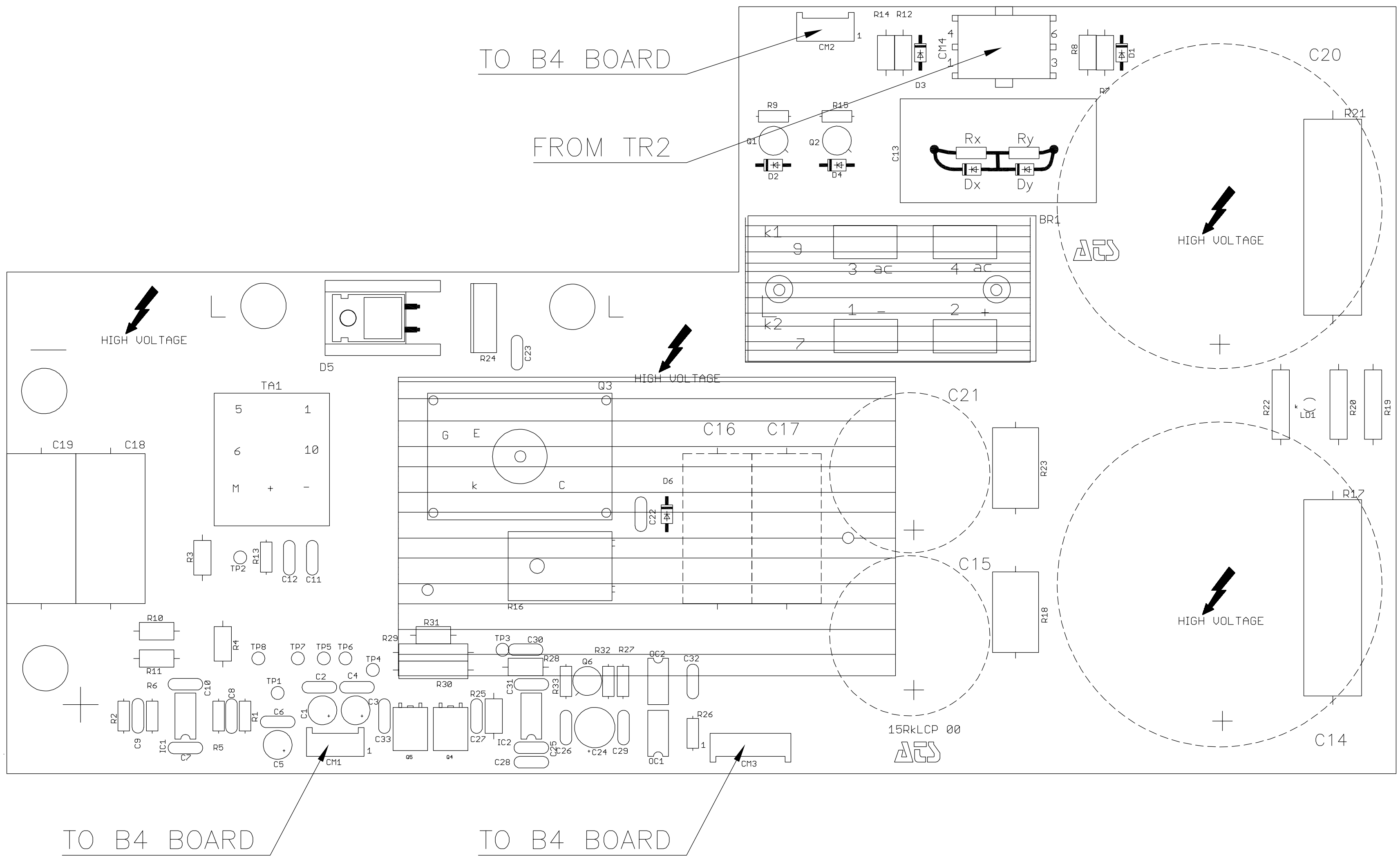


ATS Applicazione Tecnologie Speciali srl	ARCO FP B3 BOARD (CTIR—HW)		n° 74 01 200 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	

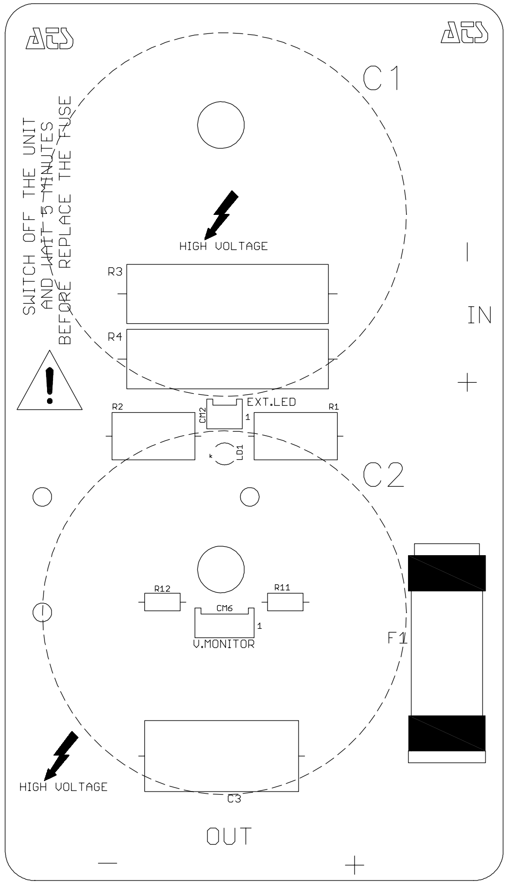
1 2 3 4 5 6 7 8 9 10



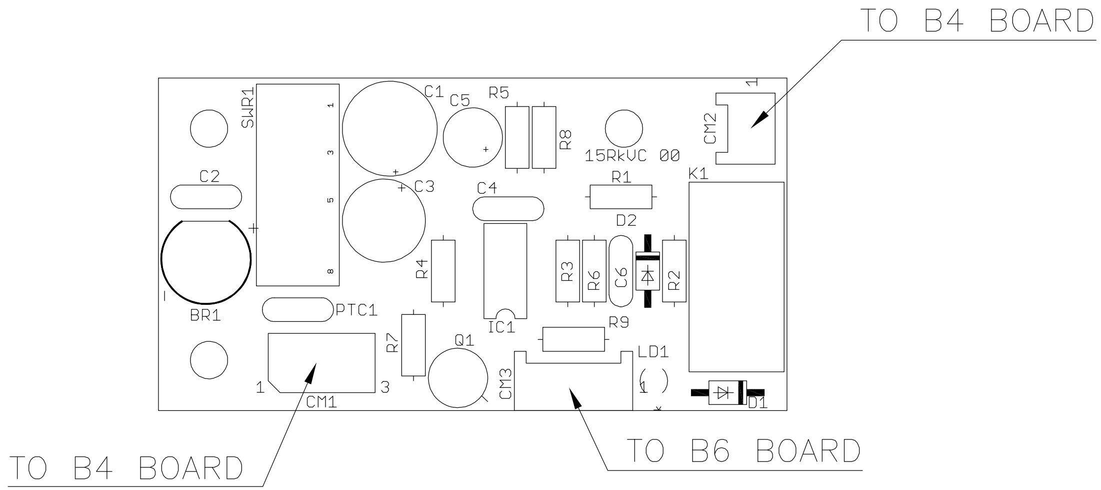
Applicazione Tecnologie Speciali srl	ARCO FP B4 BOARD (15RkLC 00)		n° 44 01 100A Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



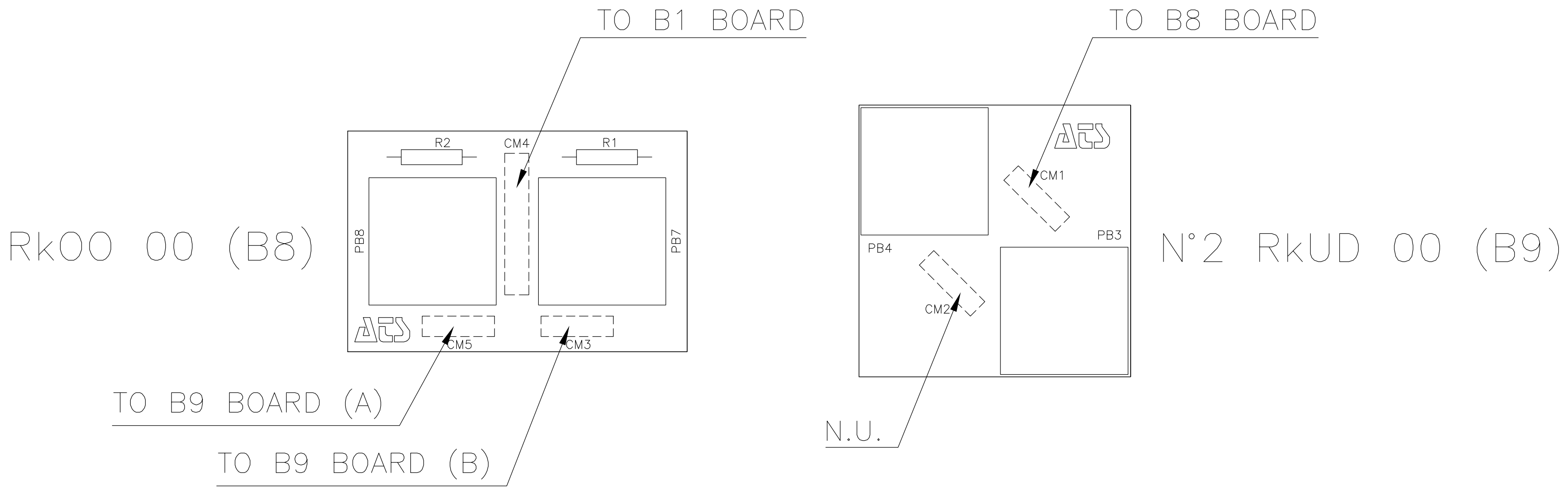
ACS	Applicazione Tecnologie Speciali srl	ARCO FP B5 BOARD (15RkLCP 00)	n° 44 01 400A Sheet
Dwn by D.T. Date 08-09-2017		Replace	Replaced by
Approved F.C. Date 08-09-2017		Valid from 02 001 74 17	Up to



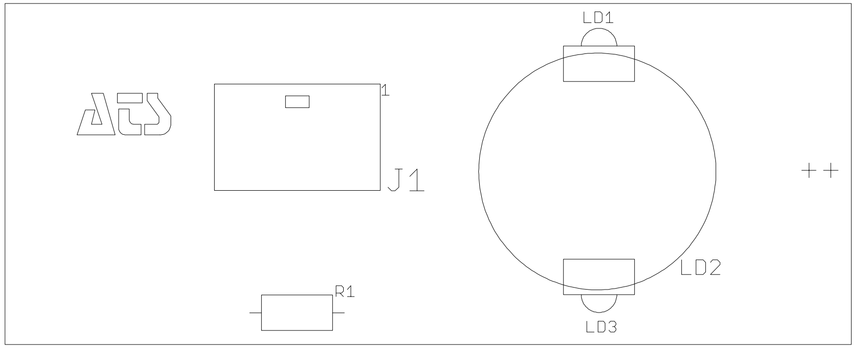
Applicazione Tecnologie Speciali srl	ARCO FP B6 BOARD (15RkLCF 00)		n° 44 01 500A Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



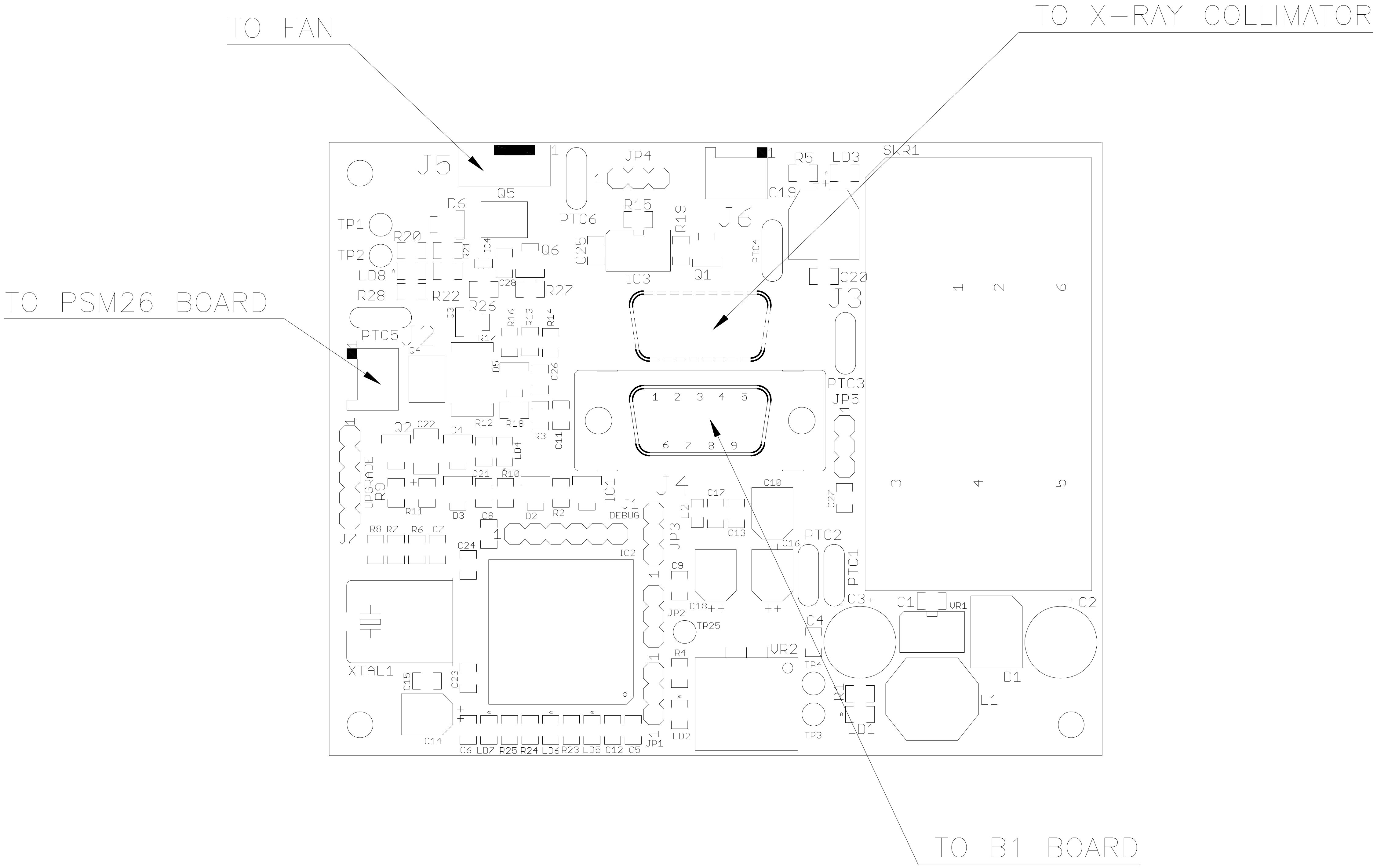
ACS Applicazione Tecnologie Speciali srl	ARCO FP B7 BOARD (15RkVC 00)		n° 44 01 700 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



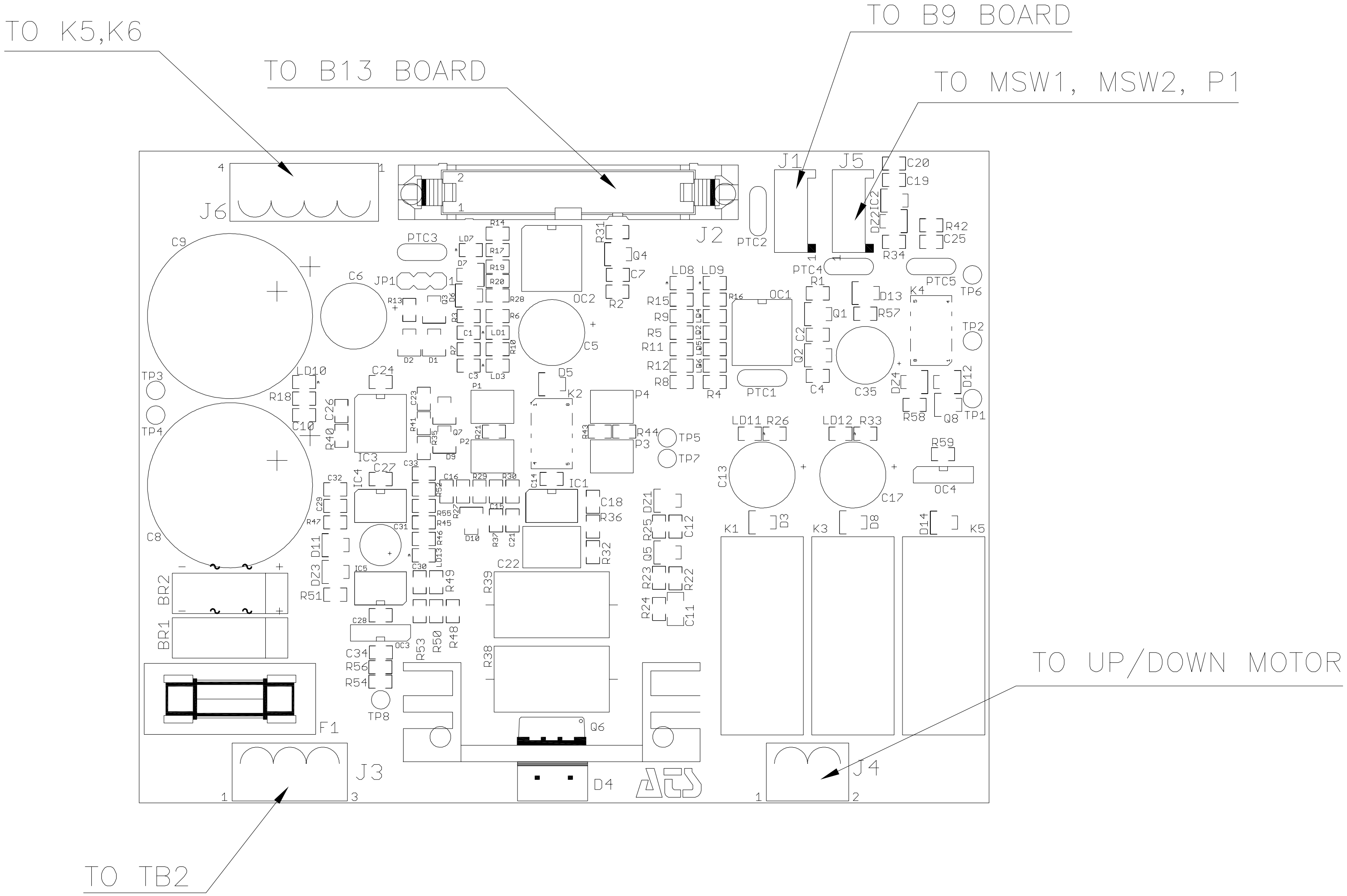
Applicazione Tecnologie Speciali srl	ARCO FP B8 (RkOO 00) – B9 (RkUD 00)		n° 59 01 500 – 59 01 400 Sheet
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



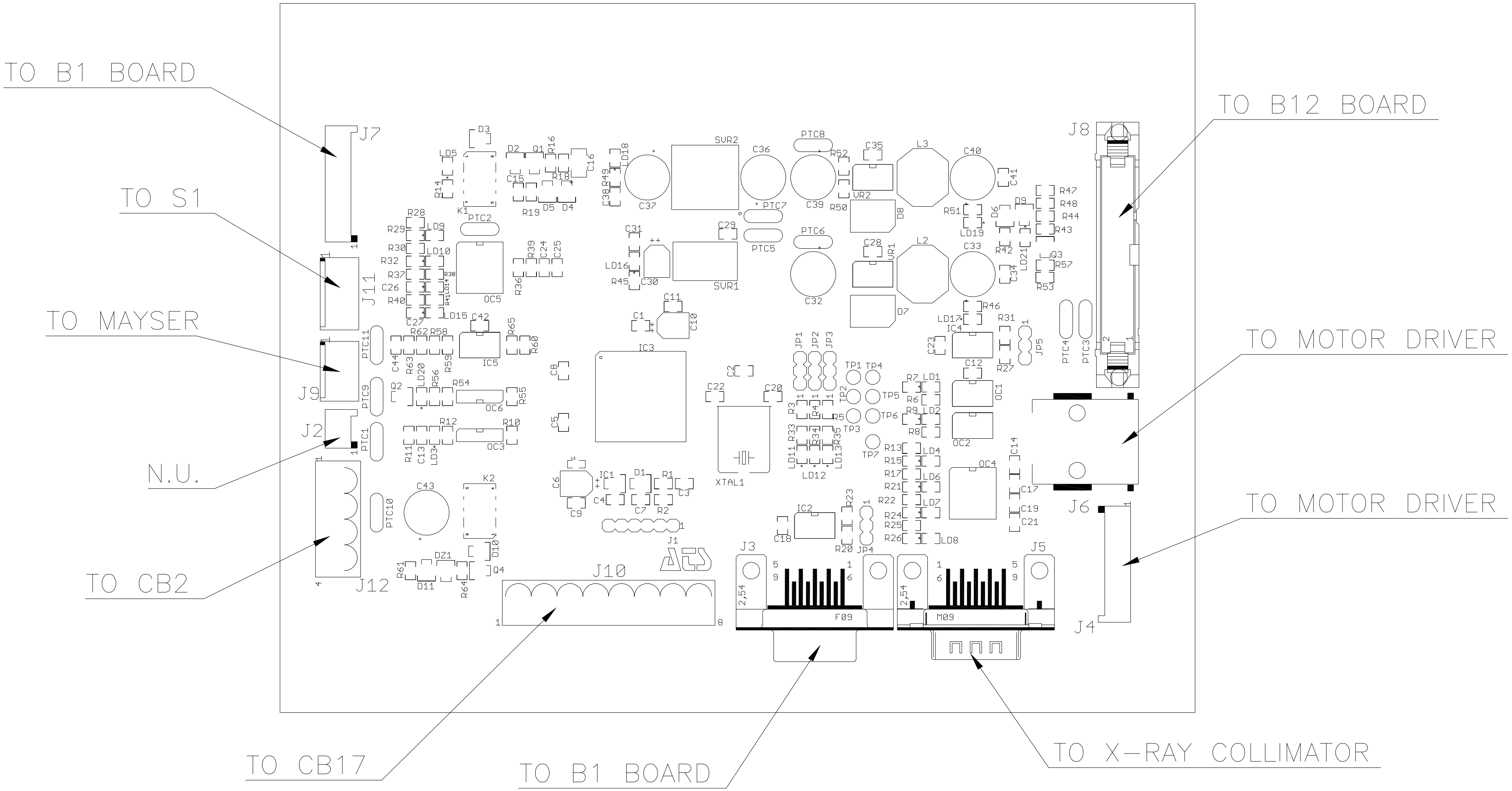
Applicazione Tecnologie Speciali srl	ARCO FP B10 BOARD (CTLD-HW 00)	n° 74 01 300 Sheet	
Dwn by D.T. Date 08-09-2017	Replace	Replaced by	
Approved F.C. Date 08-09-2017	Valid from 02 001 74 17	Up to	



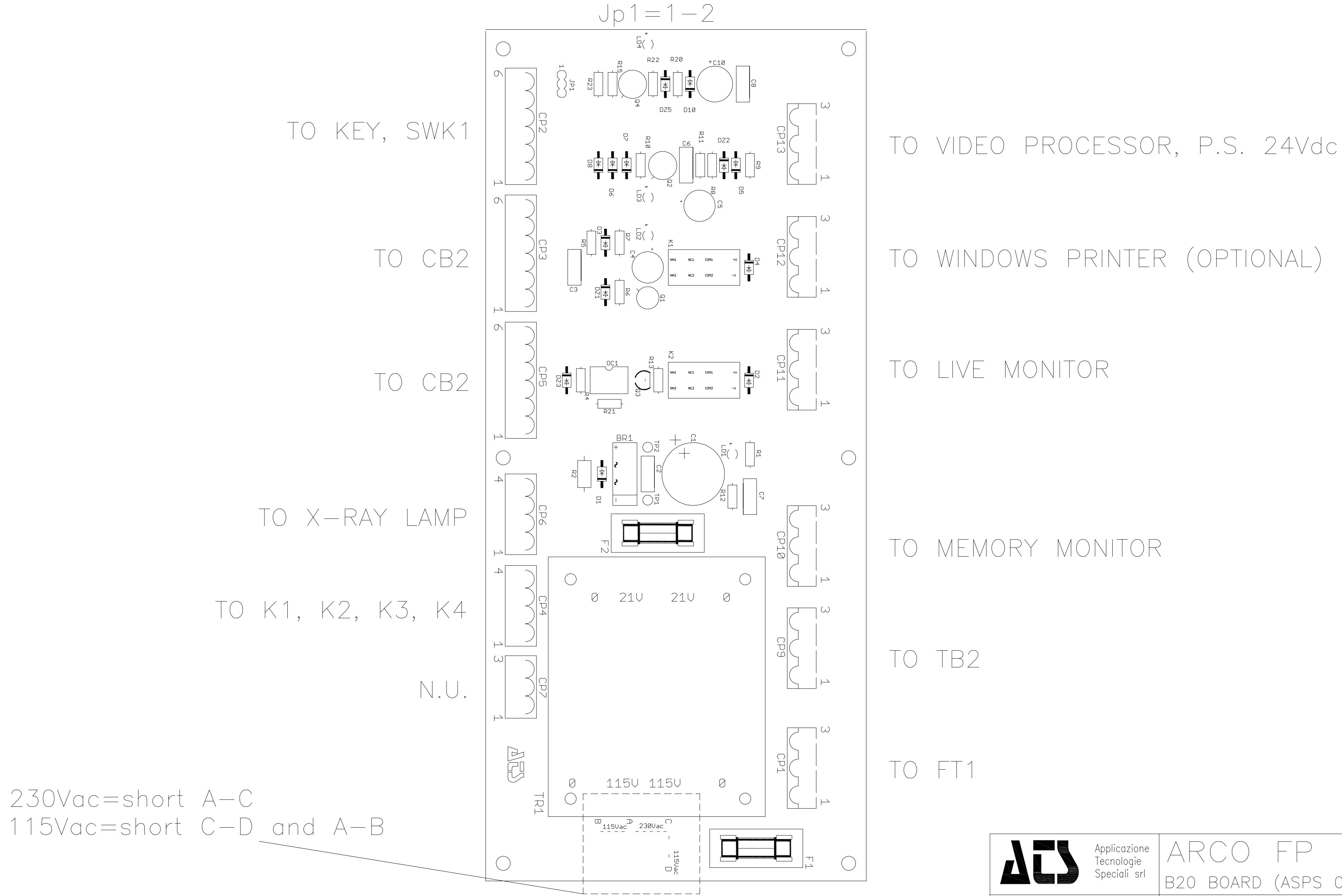
ATS	Applicazione Tecnologie Speciali srl	ARCO FP B11 BOARD (AFPC 00)	n° 74 01 500 Sheet
Dwn by D.T.	Date 01-10-2020	Replace	Replaced by
Approved F.C.	Date 01-10-2020	Valid from 03 037 74 20	Up to



ATS	Applicazione Tecnologie Speciali srl	ARCO FP B12 BOARD (AFMC 00)	n° 74 01 600 Sheet
Dwn by D.T. Date 01-04-2022		Replace	Replaced by
Approved F.C. Date 01-04-2022		Valid from 03 044 74 22	Up to



ATS Applicazione Tecnologie Speciali srl	ARCO FP B13 BOARD (AFPM 00)		n° 74 01 700 Sheet
Dwn by D.T. Date 01-04-2022	Replace	Replaced by	
Approved F.C. Date 01-04-2022	Valid from 03 044 74 22	Up to	



ACS Applicazione Tecnologie Speciali srl		ARCO FP B20 BOARD (ASPS 02)		n° 66 10 110B Sheet
Dwn by D.T.	Date 06-08-2021	Replace 66 10 110A	Replaced by	
Approved F.C.	Date 06-08-2021	Valid from 03 054 7421	Up to	