Pin Nb	Power Supply
2	Con-1
1	Vcc 24 V
2	Gnd

Pin Nb	AC 220V
3	Con-2
1	Phase
2	Neutre
3	Gne

Pin Nb	AC-Power (Y) To Irad Area
7	Con-3
1	CMD-UP
2	CMD-Down
3	NC
4	NC
5	Neutral
6	GND
7	NC

Pin Nb	COM
9	Con-4
1	
2	RS232 Tx
3	RS232 Rx
4	
5	GND
6	
7	
8	
9	

Pin Nb	Stepper Motors
15	Con-5
	M1P1A
	M1P1B
	M1P2A
	M1P2B
	M2P1A
	M2P1B
	M2P2A
	M2P2B
	M3P1A
	M3P1B
	M3P2A
	M3P2B
	GND
	GND
	GND

Pin Nb	Power connection
3	Con-7
	Phase 220V
	N 220V
	GND

Pin Nb	AC Power for Y mouvment
4	Con-8
	UP Phase 220V
	Down Phase 220V
	N 220V
	GND

Pin Nb	
4	Con-13
1	24V
2	Gnd
3	NC
4	NC

Pin Nb	Signals for one table
	Con-6
	1 mA (+)for M1
	1 mA (-)for M1
	1 mA (+)for M2
	1 mA (-)for M2
	1 mA (+)for M3
	1 mA (-)for M3
	1 mA (+)for MAC
	1 mA (-)for MAC
	1 mA (+)for Temp. 1
	1 mA (-)for Temp. 1
	1 mA (+)for Temp. 2
	1 mA (-)for Temp. 2
	1 mA (+)for Temp. 3
	1 mA (-)for Temp. 3
	1 mA (+)for Temp. 4
	1 mA (-)for Temp. 4
	Vout (+)for M1
	Vout (-)for M1
	Vout (+)for M2
	Vout (-)for M2
	Vout (+)for M3
	Vout (-)for M3
	Vout (+)for MAC
	Vout (-)for MAC
	Vout (+)for Temp. 1
	Vout (-)for Temp. 1
	Vout (+)for Temp. 2
	Vout (-)for Temp. 2
	Vout (+)for Temp. 3
	Vout (-)for Temp. 3
	Vout (+)for Temp. 4
	Vout (-)for Temp. 4
	SW-L1 NC
	SW-L1 NO
	SW-R1 NC
	SW-R1 NO
	SW-L2 NC
	SW-L2 NO
	SW-R2 NC
	SW-R2 NO
	SW-L3 NC
	SW-L3 NO
	SW-R3 NC
	SW-R3 NO
	SW-LAC NC
	SW-LAC NO
	SW-RAC NC
	SW-RAC NO
	GND
	24V

Pin Nb	Motor 1 Vision info signal	Pin Nb	Motor 2 Vision info signal	Pin Nb	Motor 3 Vision info signal	Pin Nb	Motor AC Vision info signal
14	Con-9	14	Con-10	14	Con-11	14	Con-12
	M1-Actual position --> V		M2-Actual position --> V		M3-Actual position --> V		MAC-Actual position --> V
	SW-L1 NO -->Led		SW-L2 NO -->Led		SW-L3 NO -->Led		SW-LAC NO -->Led
	SW-R1 NO -->Led		SW-R2 NO -->Led		SW-R3 NO -->Led		SW-RAC NO -->Led
	Ack --> Led		Ack --> Led		Ack --> Led		AC-ON -->Led
	CMD-M1		CMD-M2		CMD-M3		AC-UP -->Led
	Ref 5V for CMD		Ref 5V for CMD		Ref 5V for CMD		Ack --> Led
	M1 Running --> Led		M2 Running --> Led		M3 Running --> Led		CMD-AC
	M1 InBeam --> Led		M2 InBeam --> Led		M3 InBeam --> Led		Ref 5V for CMD
	Vcc 24V		Vcc 24V		Vcc 24V		AC InBeam --> Led
	GND		GND		GND		Vcc 24V
	NC		NC		NC		GND
	NC		NC		NC		NC
	NC		NC		NC		NC
	NC		NC		NC		NC

Pin Nb	M300 connection	Pin Nb	M300 connection	Pin Nb	M300 connection
20	C1	20	C2	20	C3
1	M1P1A	1	Vcc 5V	1	+24V
2	M1P1B	2	Ref Vcc 5V	2	+24V
3	M1P2A	3	GND	3	GND
4	M1P2B	4	GND	4	GND
5	GND	5	ADC0-SW-AC	5	DOUT-0 Ack
6	GND	6	ADC1 V-M1	6	DOUT-1 IO-Clk
7	M2P1A	7	ADC2 V-M2	7	DOUT-2 IO-Data
8	M2P1B	8	ADC3 V-M3	8	DOUT-3 IO-Strobe
9	M2P2A	9	ADC4 CMD-M1	9	DOUT-4 AC-UP
10	M2P2B	10	ADC5 CMD-M2	10	DOUT-5 AC-Down
11	GND	11	ADC6 CMD-M3	11	DOUT-6 Free
12	GND	12	ADC7 V-AC	12	DOUT-7 Free
13	M3P1A	13	GND	13	RS232-Tx
14	M3P1B	14	Shutdown	14	RS232-Rx
15	M3P2A	15	Gnd Opto-1	15	Ref-L1
16	M3P2B	16	Opto-1	16	Ref-R1
17	GND	17	Gnd Opto-2	17	Ref-L2
18	GND	18	Opto-2	18	Ref-R2
19	24V	19	RS485 +	19	Ref-L3
20	24V	20	RS485 -	20	Ref-R3

Pin Nb	Output signal for WebDAC, Users
39	Con-14
	V. position M1 WebDAC
	V. position M1 User
	V. position M2 WebDAC
	V. position M2 User
	V. position M3 WebDAC
	V. position M3 User
	V. position MAC WebDAC
	V. position MAC User
	V. Temp1 WebDAC
	V. Temp1 User
	V. Temp1 CTRL
	V. Temp2 WebDAC
	V. Temp2 User
	V. Temp2 CTRL
	V. Temp3 WebDAC
	V. Temp3 User
	V. Temp3 CTRL
	V. Temp4 WebDAC
	V. Temp4 User
	V. Temp4 CTRL
	In Security InBeam
	Out Security InBeam
	Beam Syncronisation (+24V)
	M300-DOUT-6
	M300-DOUT-7
	IO Spare 1
	IO Spare 2
	IO Spare 3
	IO Spare 4
	IO Spare 5
	IO Spare 6
	IO Spare 7
	IO Spare 8
	RS485 +
	RS485 -
	M300-Shutdown
	Vcc 24V
	GND
	Vcc 5V

DIMENSION	<=6	> 6	> 30	> 120	> 315	>1000	>2000
USINAGE MOYEN/MEDIUM MACHINING	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
MECANO. SOUDURE/WELDED STRUCTURE	± 0.5	± 1	± 2	± 3	± 5	± 7	± 10

GENERAL TOLERANCES / GENERALES

DESSIN, RUGOSITE, TOLERANCES SELON NORMES ISO
DRAWING, RUGOSITY, TOLERANCES ACCORDING TO ISO STANDARDS

PROJECTION

ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
GENEVE

Ce dessin ne peut etre utilise a des fins commerciales sans autorisation ecrite
This drawing may not be used for commercial purposes without written authorisation

IND.	DATE	NOM/NAME	ZONE	MODIFICATION

QUANT.	DESCRIPTION	POS	MAT.	OBSERVATIONS	REF.CERN
	ENS/ASS			S.ENS/S.ASS	

Motors CMD Irradiation facilities

Connetions number

ECHELLE SCALE		NOM/NAME	DATE
	DES/DRA.	M.Glaser	12-06-2009
	CONTROL.	M.GLASER	
	APPRO.		

REMPLACE/REPLACES

NON VALABLE POUR EXECUTION
NOT VALID FOR EXECUTION

IND. 3

7 6 5 4 3 2 1

e d c b a