

ACER

Turning Center

Model: JG100/150/200 Electrical Manual

TAIWAN: FORMOSA SPRINGWOOD INTERNATIONAL, INC.

NO. 101, 506 LANE SENG-TSO ROAD, SENG KARNG SHARNG,

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CA: SPRINGWOOD INDUSTRIAL, INC.

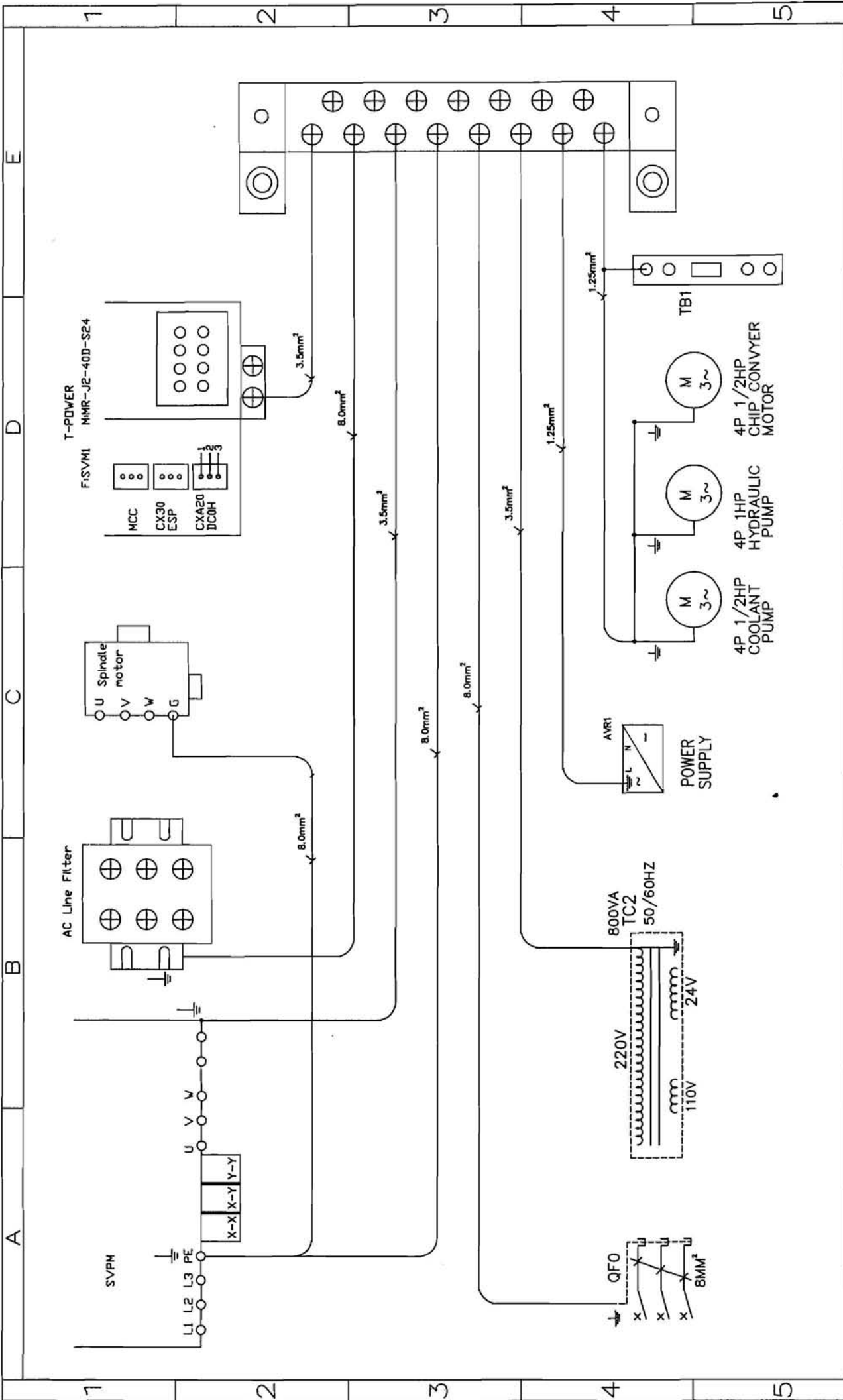
1062N.KRAEMERPLACE

ANAHEIM, CA 92806 USA

TEL: (714) 632-9701 FAX: (714) 632-9701

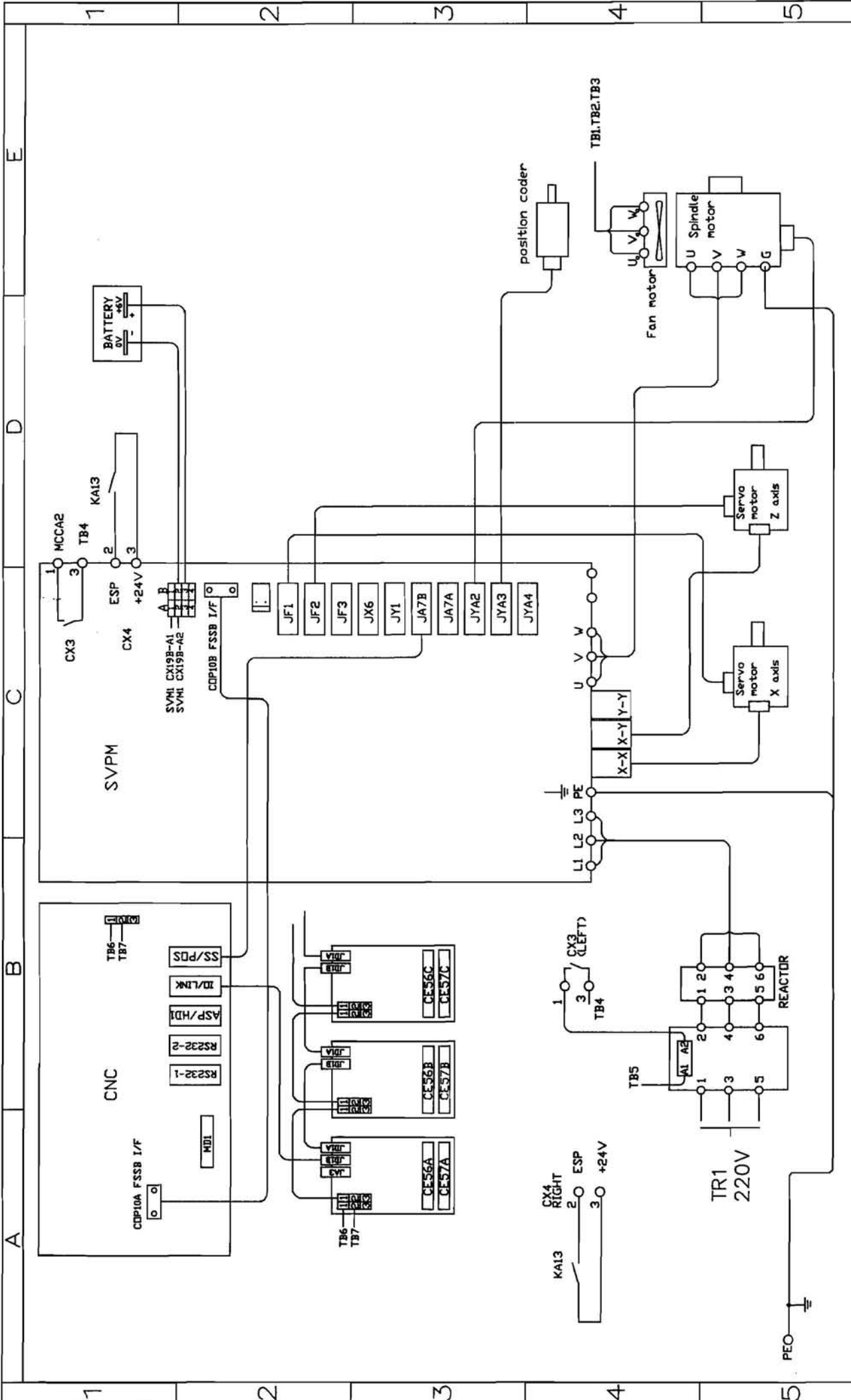
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2010.10.20



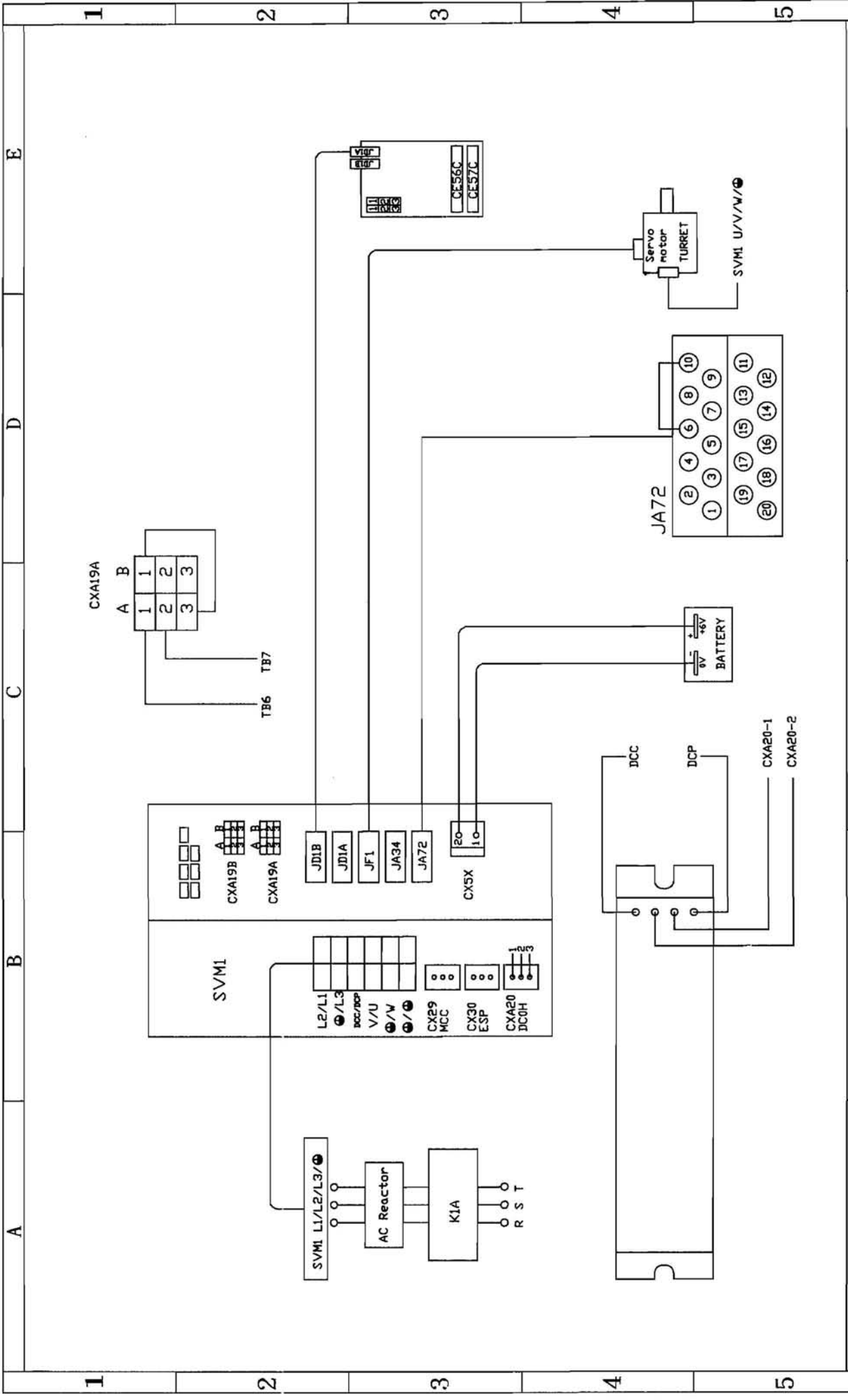
A		B		C		D		E		
DESCRIPTION					G		FILE NO.		PAGE	
					G				1/1	





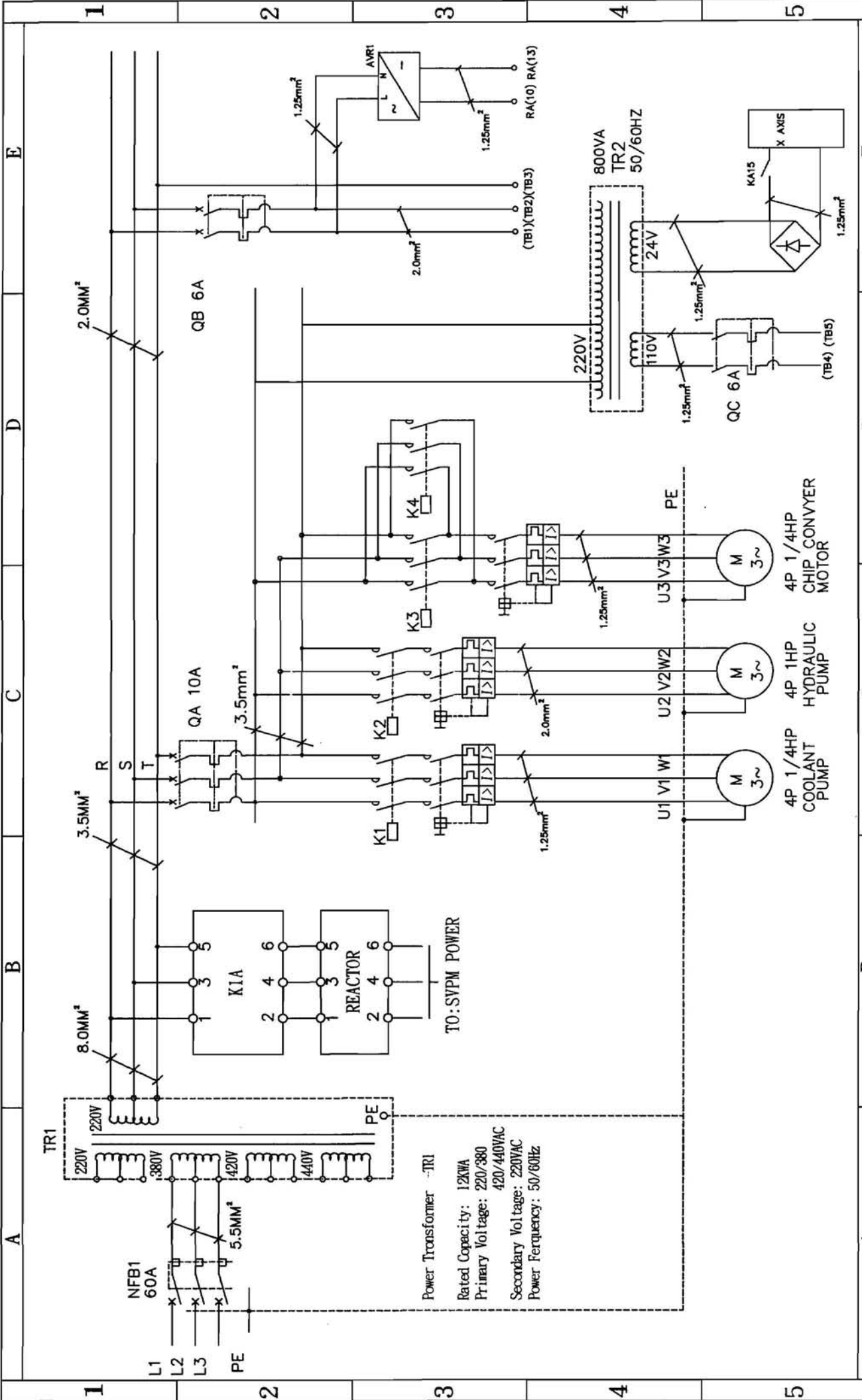
E	D	C	B	E	D	C	A
DESCRIPTION							
PSM SPM SVM CONNECTOR				SERVO POWER			
FILE NO.				PAGE			
1/5				1/5			





PAGE	2/5
FILE NO.	SERVO POWER1
DESCRIPTION	PSM SPM SVM CONNECTOR





TR1
220V
380V
420V
440V
PE

NFB1
60A

L1
L2
L3
PE

8.0mm²

3.5mm²

5.5mm²

K1A

REACTOR

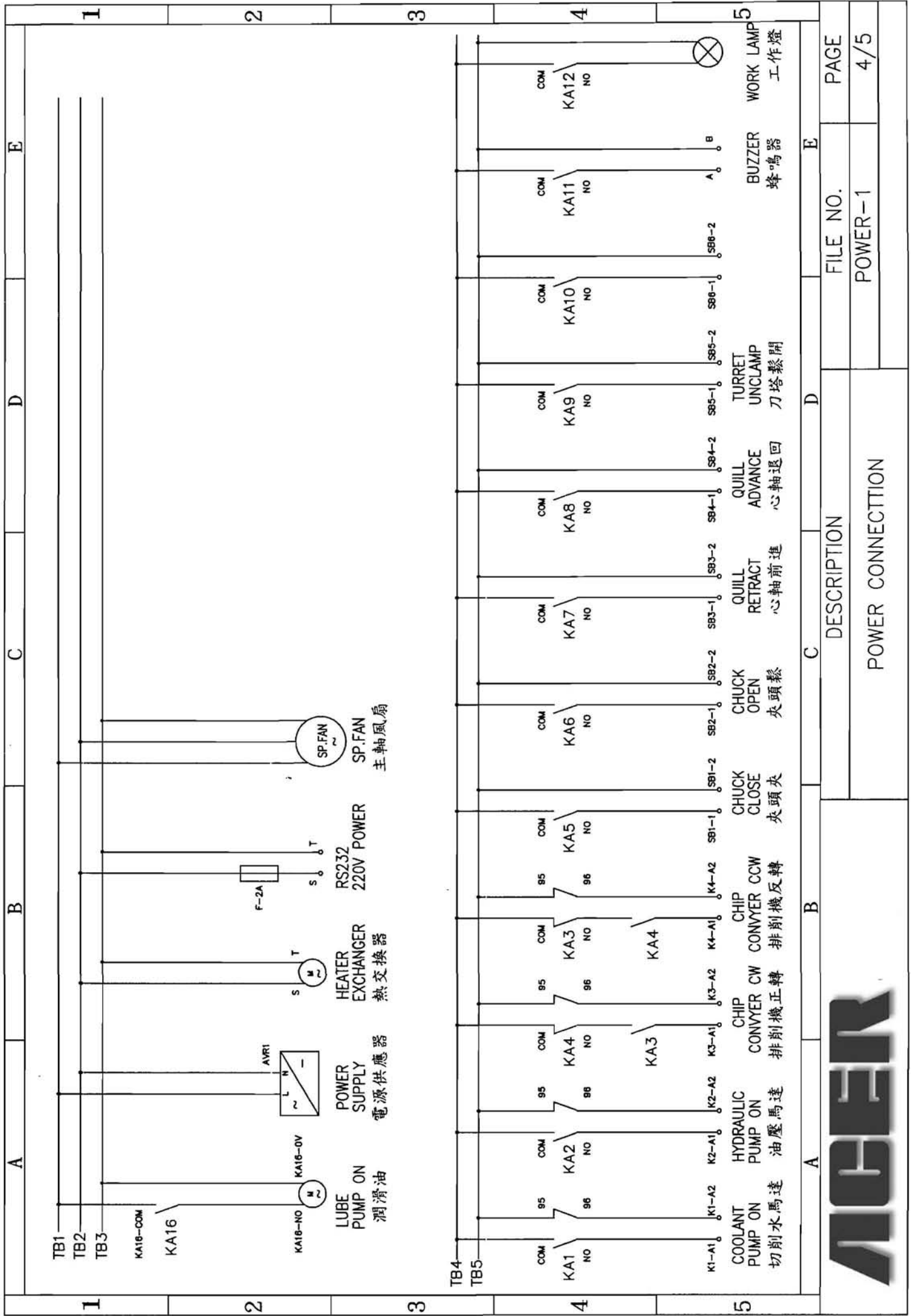
TO: SVPM POWER

Power Transformer -TR1
Rated Capacity: 12KVA
Primary Voltage: 220/380
Secondary Voltage: 220VAC
Power Frequency: 50/60Hz

4P 1/4HP COOLANT PUMP
4P 1HP HYDRAULIC PUMP
4P 1/4HP CHIP CONVEYER MOTOR

1	2	3	4	5
A	B	C	D	E
DESCRIPTION			POWER CONNECTION	PAGE
				3/5
				POWER

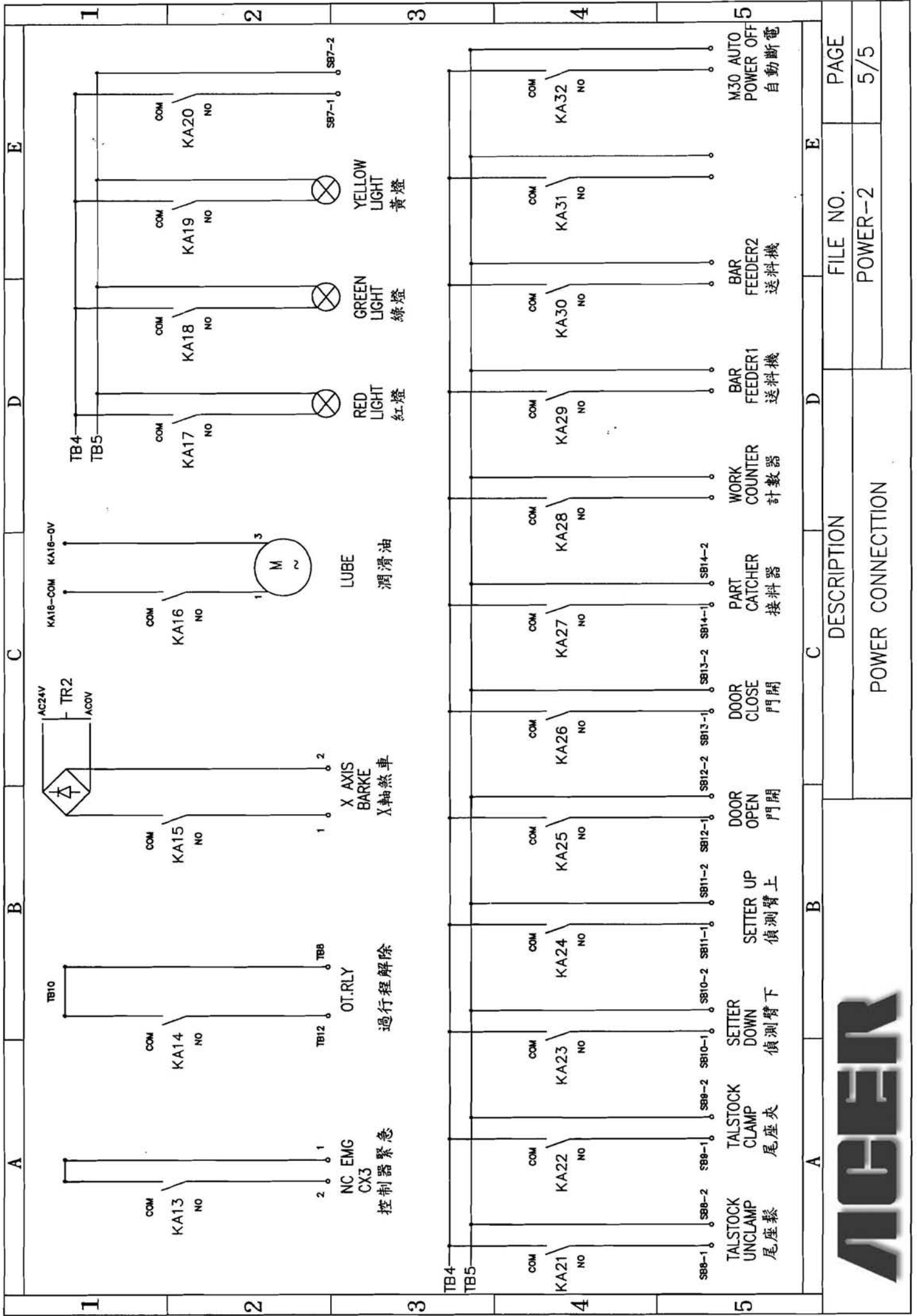




DESCRIPTION
POWER CONNECTION

FILE NO.
POWER-1

PAGE
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DESCRIPTION

POWER CONNECTION

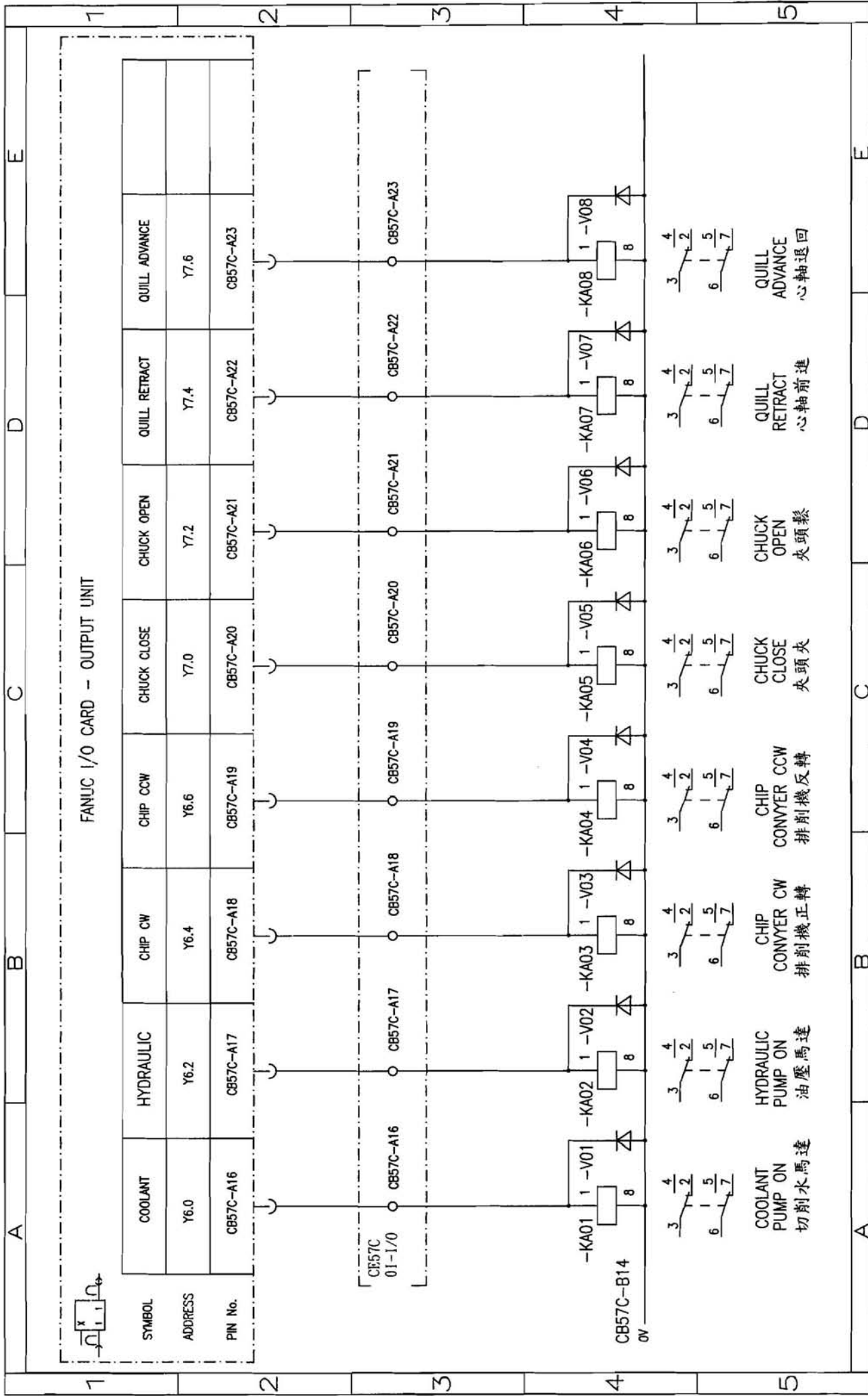
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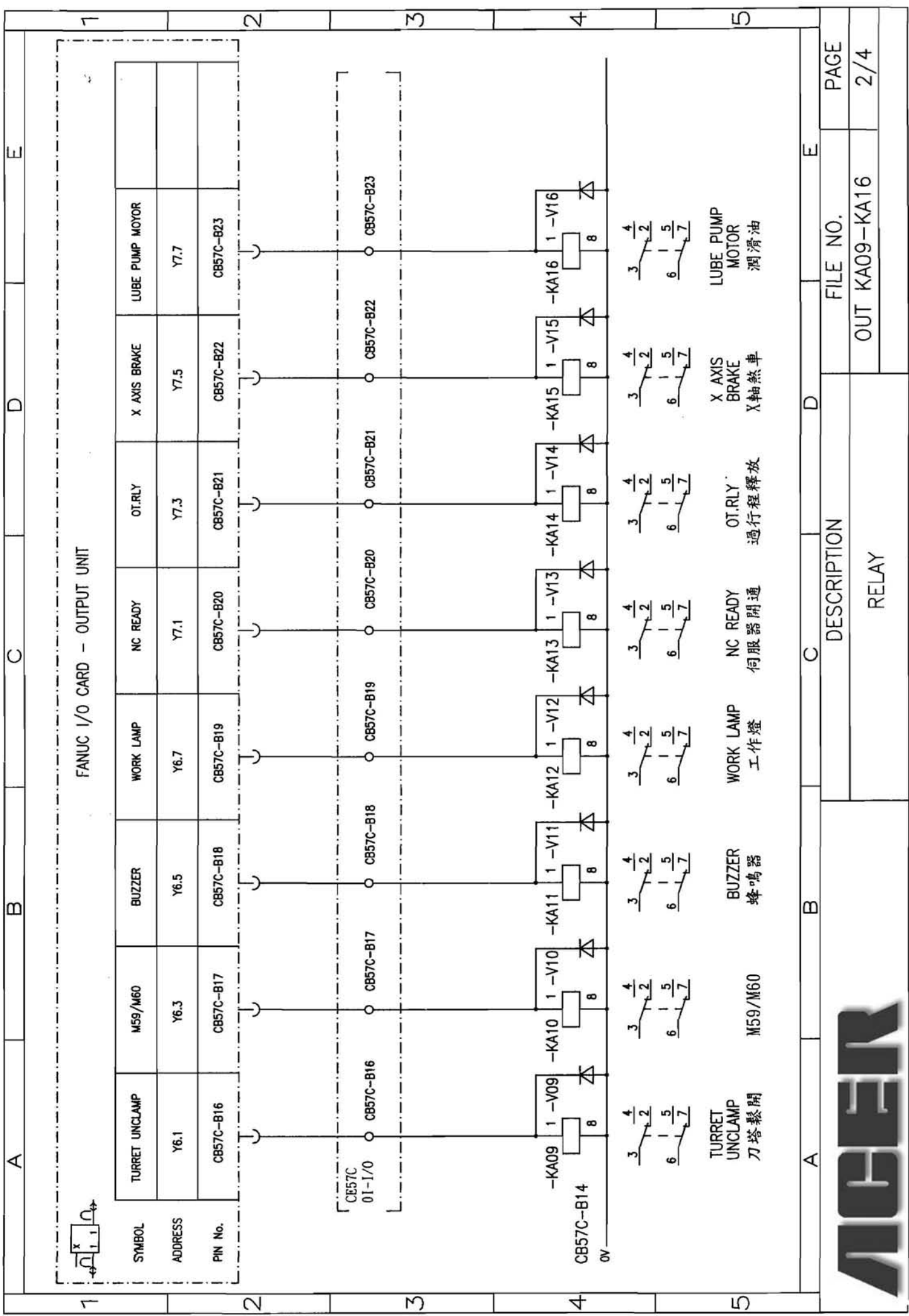
POWER-2

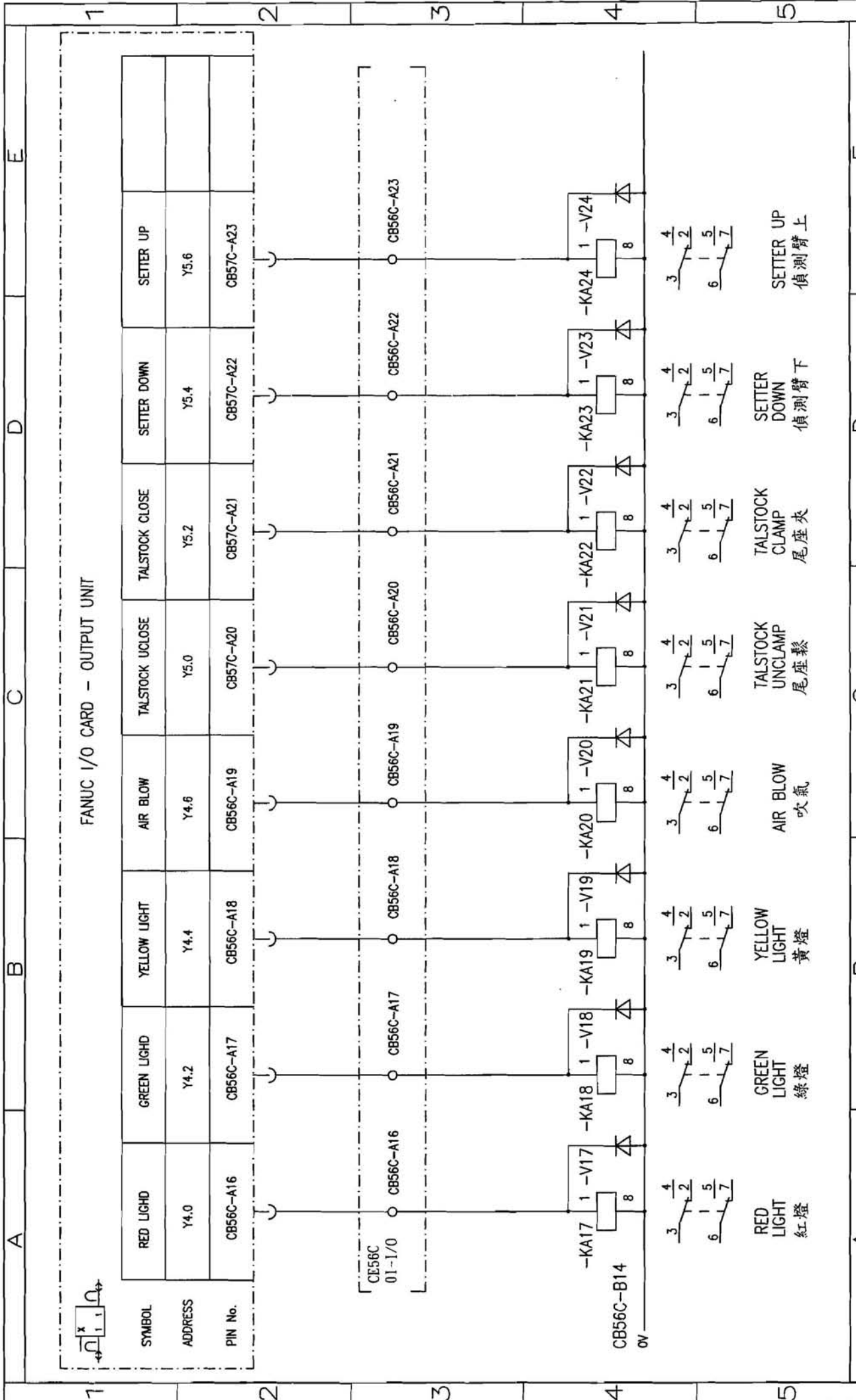
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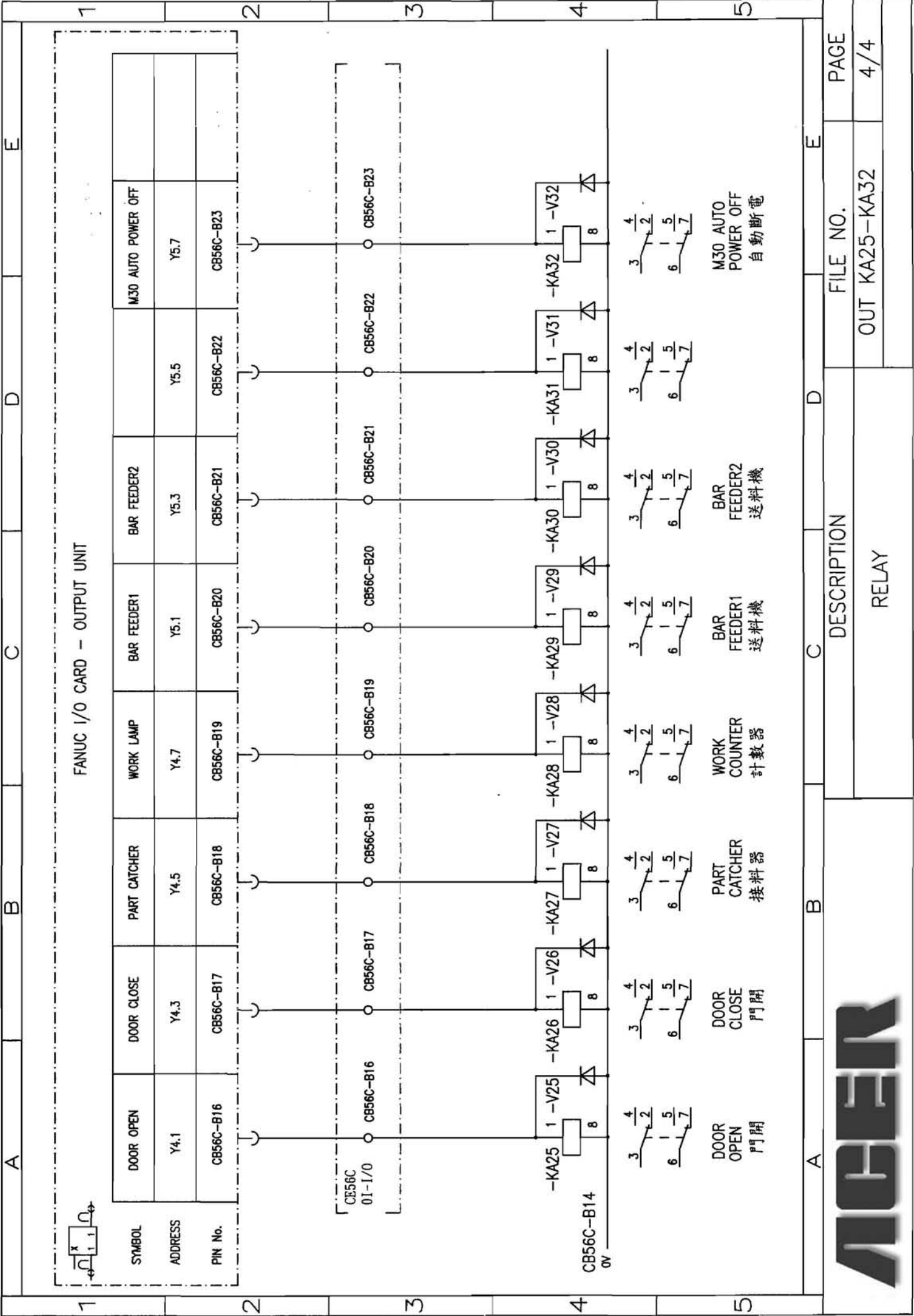
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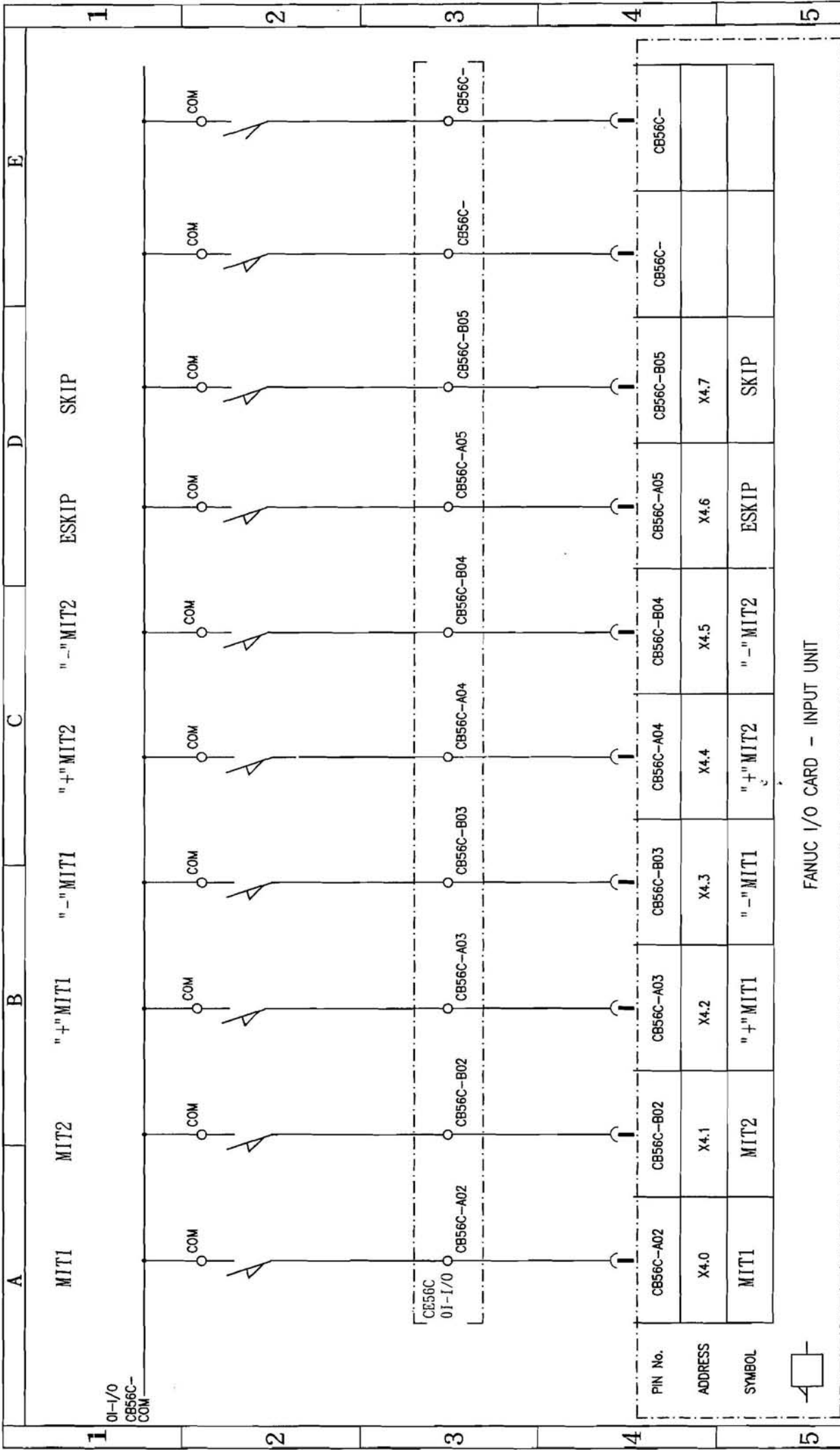




DESCRIPTION
RELAY

FILE NO.
OUT KA25-KA32

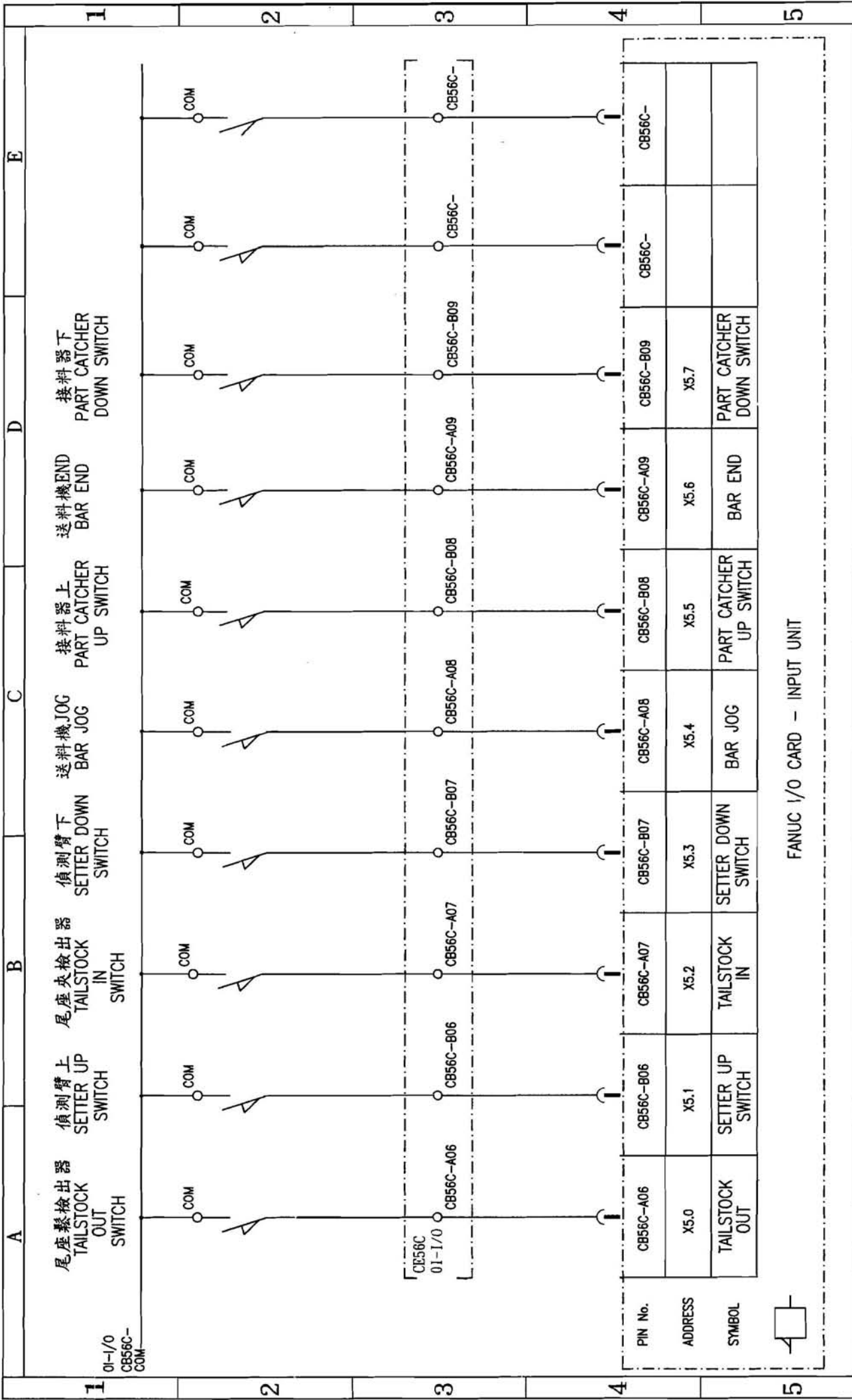
PAGE
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FANUC I/O CARD - INPUT UNIT

A	B	C	D	E
DESCRIPTION				
MACHINE INPUT				
FILE NO.				PAGE
IN X4.0-X4.7				1/6

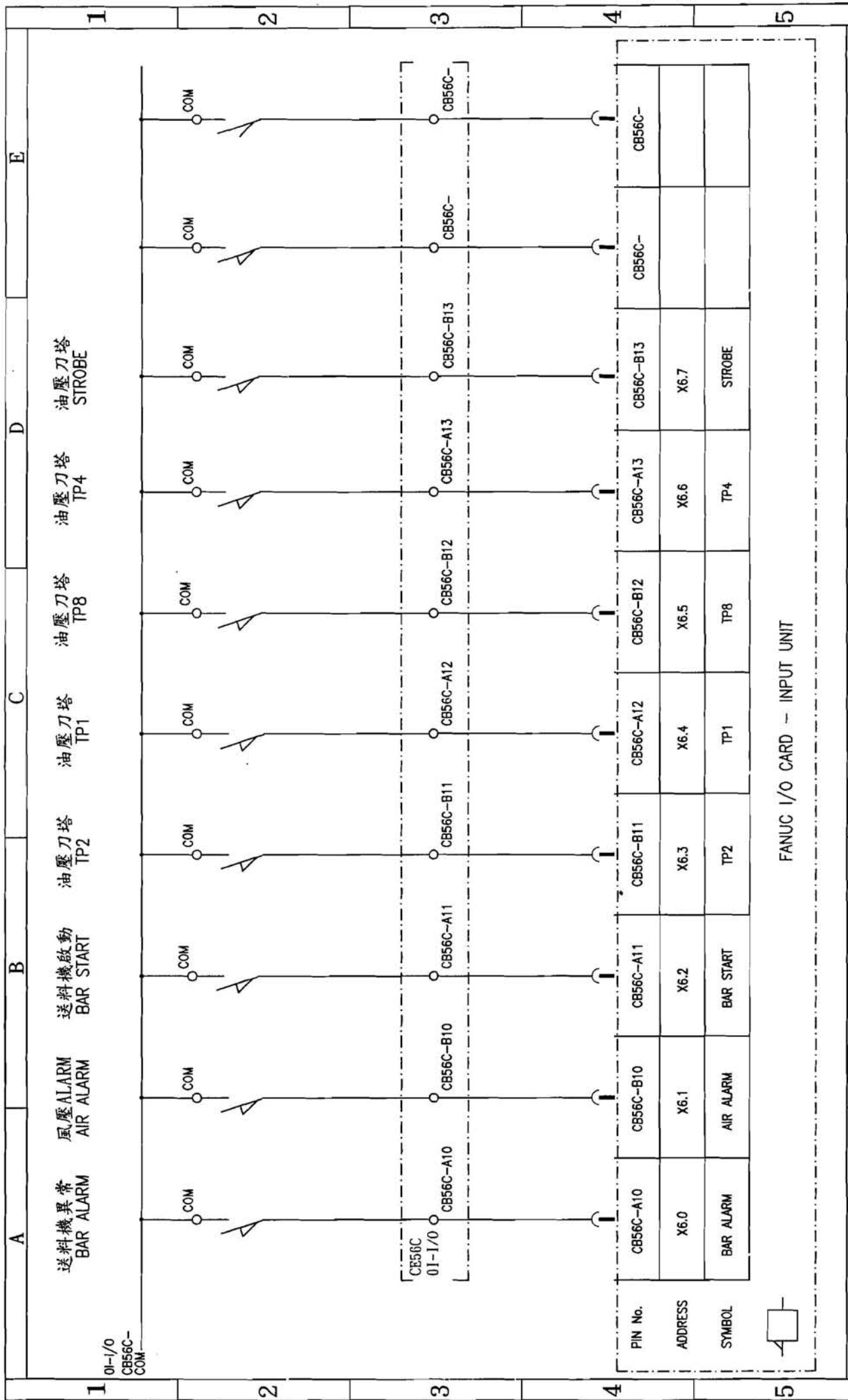




FANUC I/O CARD - INPUT UNIT

A		B		C		D		E	
DESCRIPTION					FILE NO.		PAGE		
MACHINE INPUT					IN X5.0-X5.7		2/6		

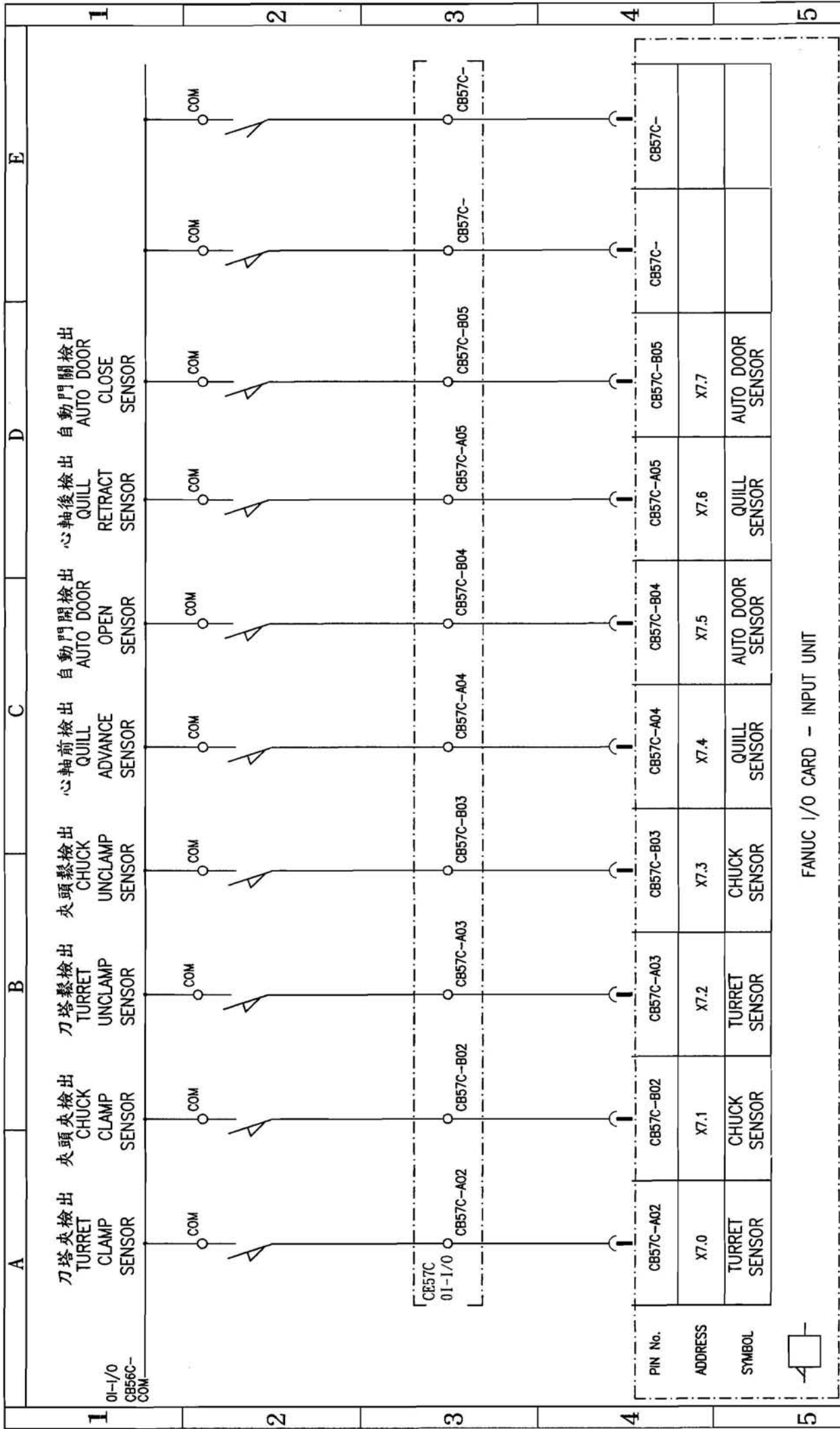




FANUC I/O CARD - INPUT UNIT

A	B	C	D	E
DESCRIPTION				
MACHINE INPUT				
FILE NO.				PAGE
IN X6.0-X6.7				3/6

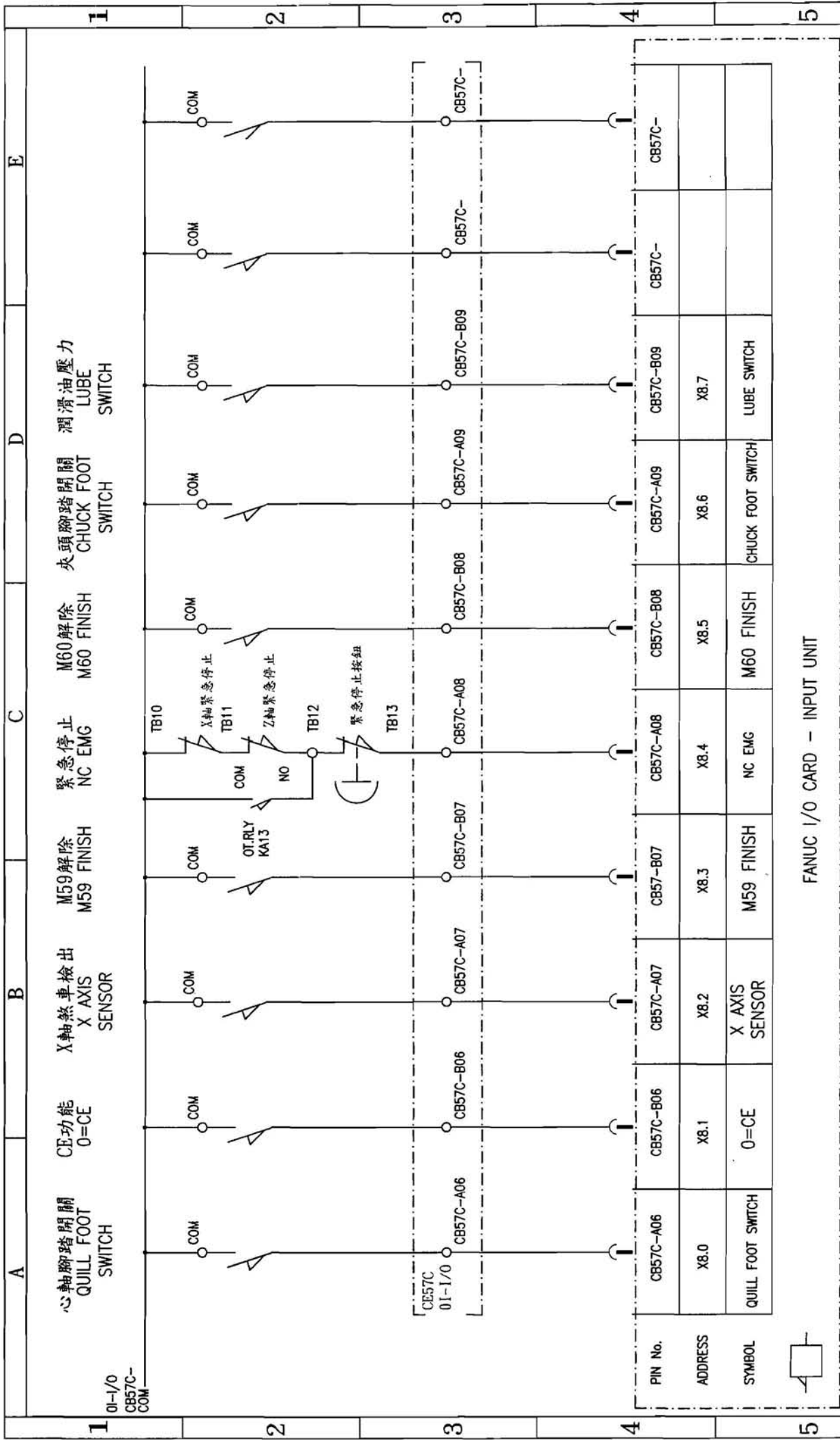




FANUC I/O CARD - INPUT UNIT

A	B	C	D	E
DESCRIPTION			FILE NO.	PAGE
MACHINE INPUT			IN X7.0-X7.7	4/6

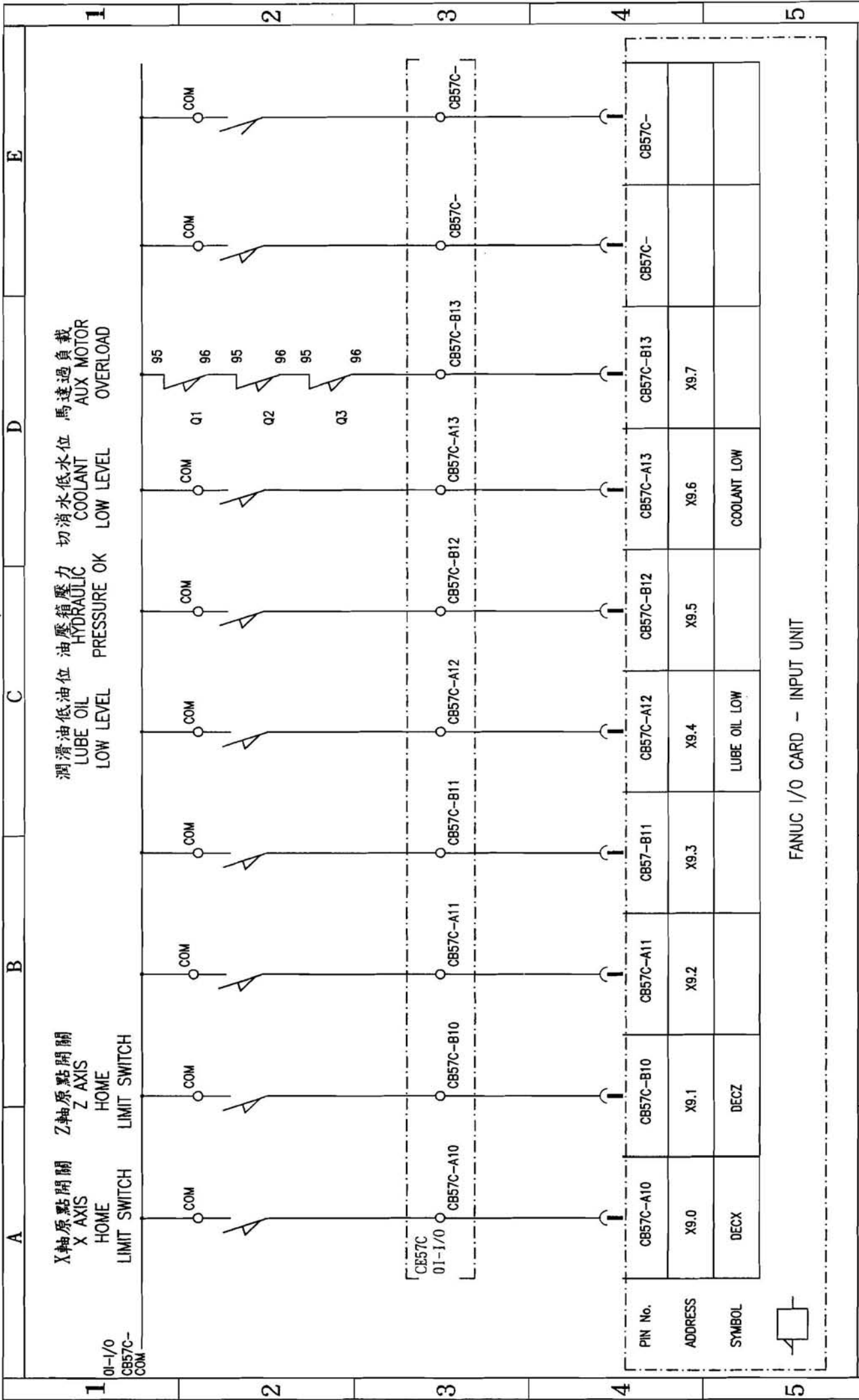




FANUC I/O CARD - INPUT UNIT

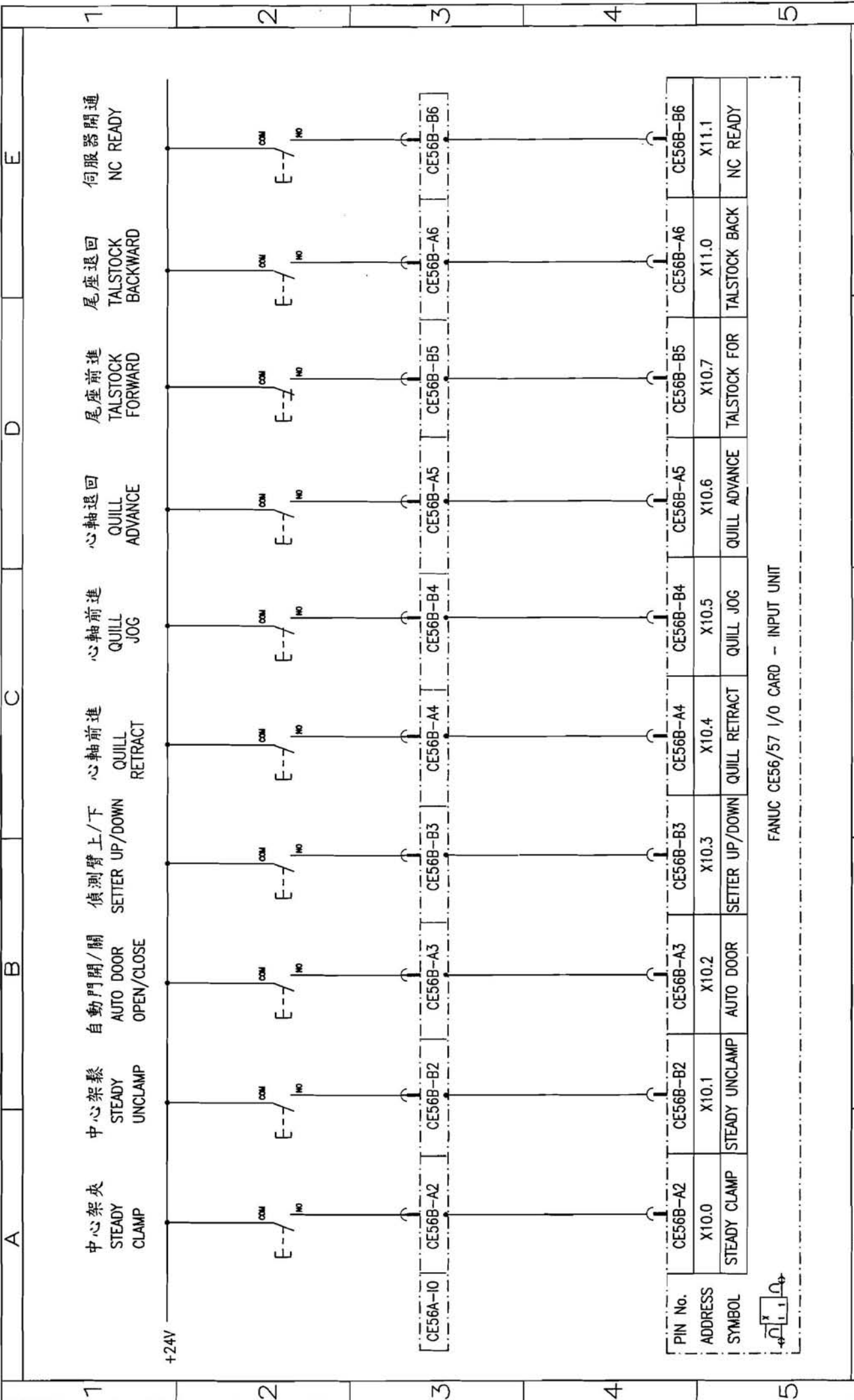
A	B	C	D	E
MACHINE INPUT		DESCRIPTION	FILE NO.	PAGE
			IN X8.0-X8.7	5/6





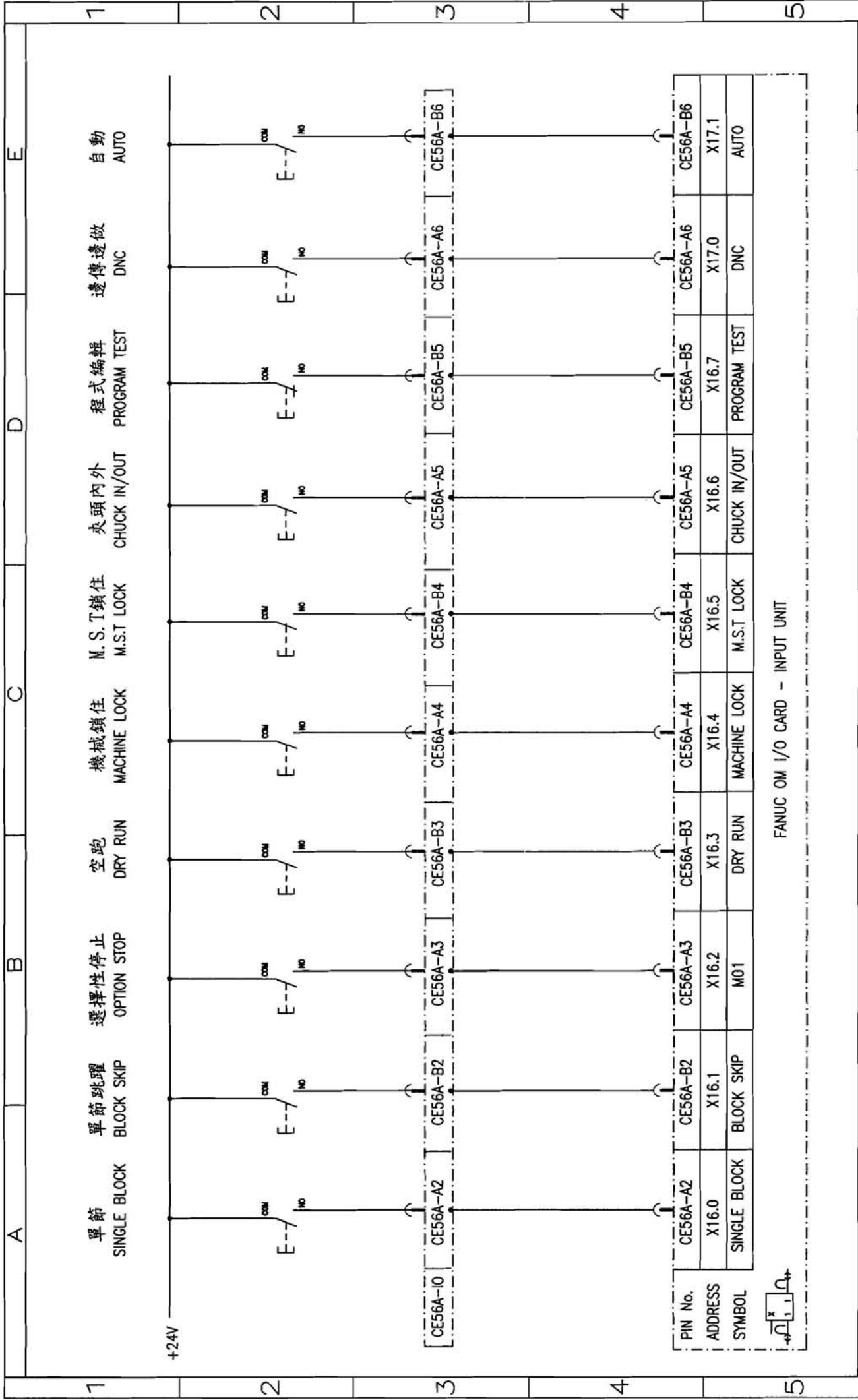
A		B		C		D		E	
DESCRIPTION					MACHINE INPUT				
FILE NO.					PAGE				
IN X9.0-X9.7					6/6				





A	B	C	D	E
		DESCRIPTION		FILE NO.
		OPERTOR PANEL IN		BUTTON X10.0-X11.1
				PAGE
				1/7

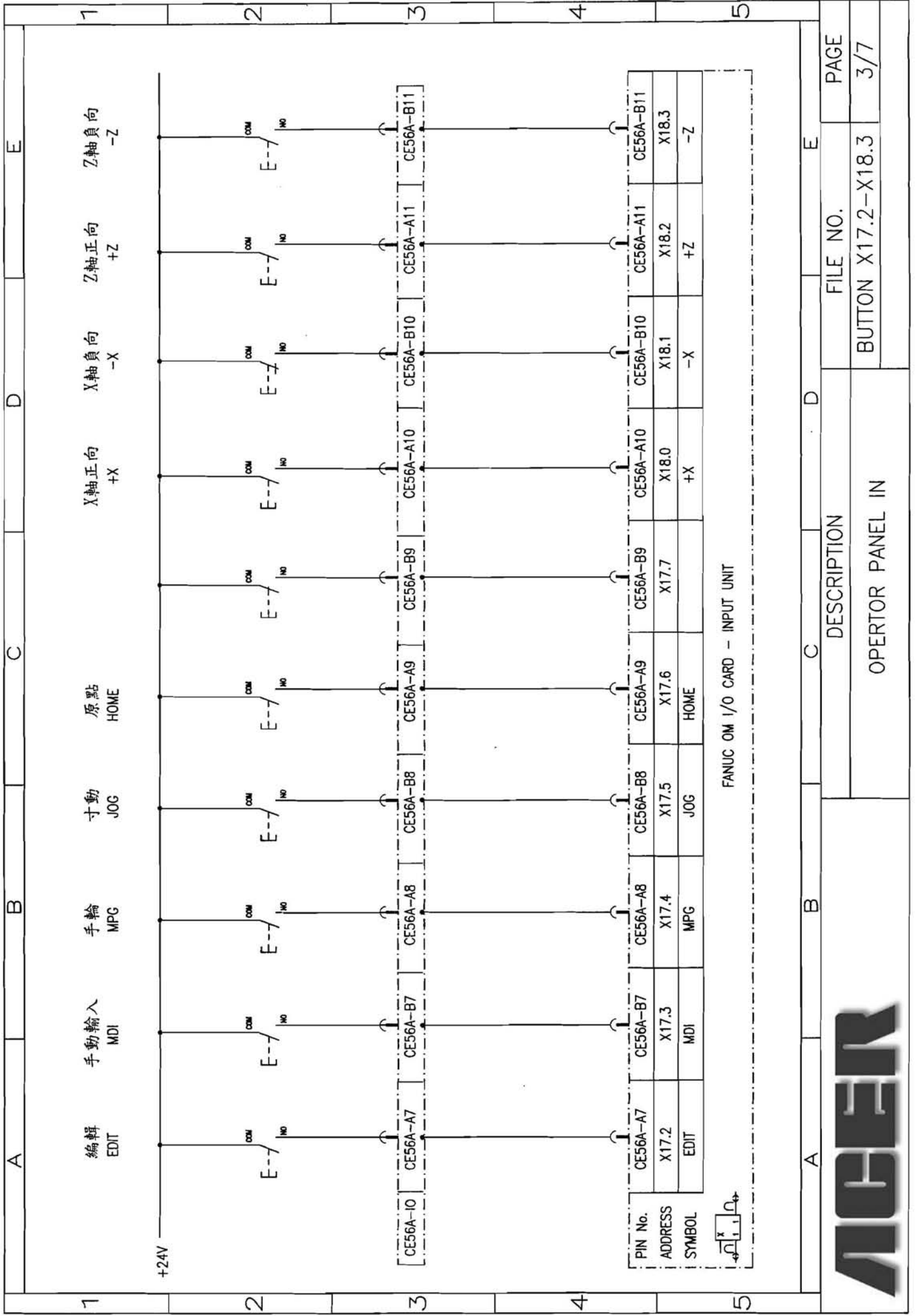




FANUC OM I/O CARD - INPUT UNIT

A		B		C		D		E	
DESCRIPTION					FILE NO.				
OPERATOR PANEL IN					BUTTON X16.0-X17.1				
					PAGE				
					2/7				





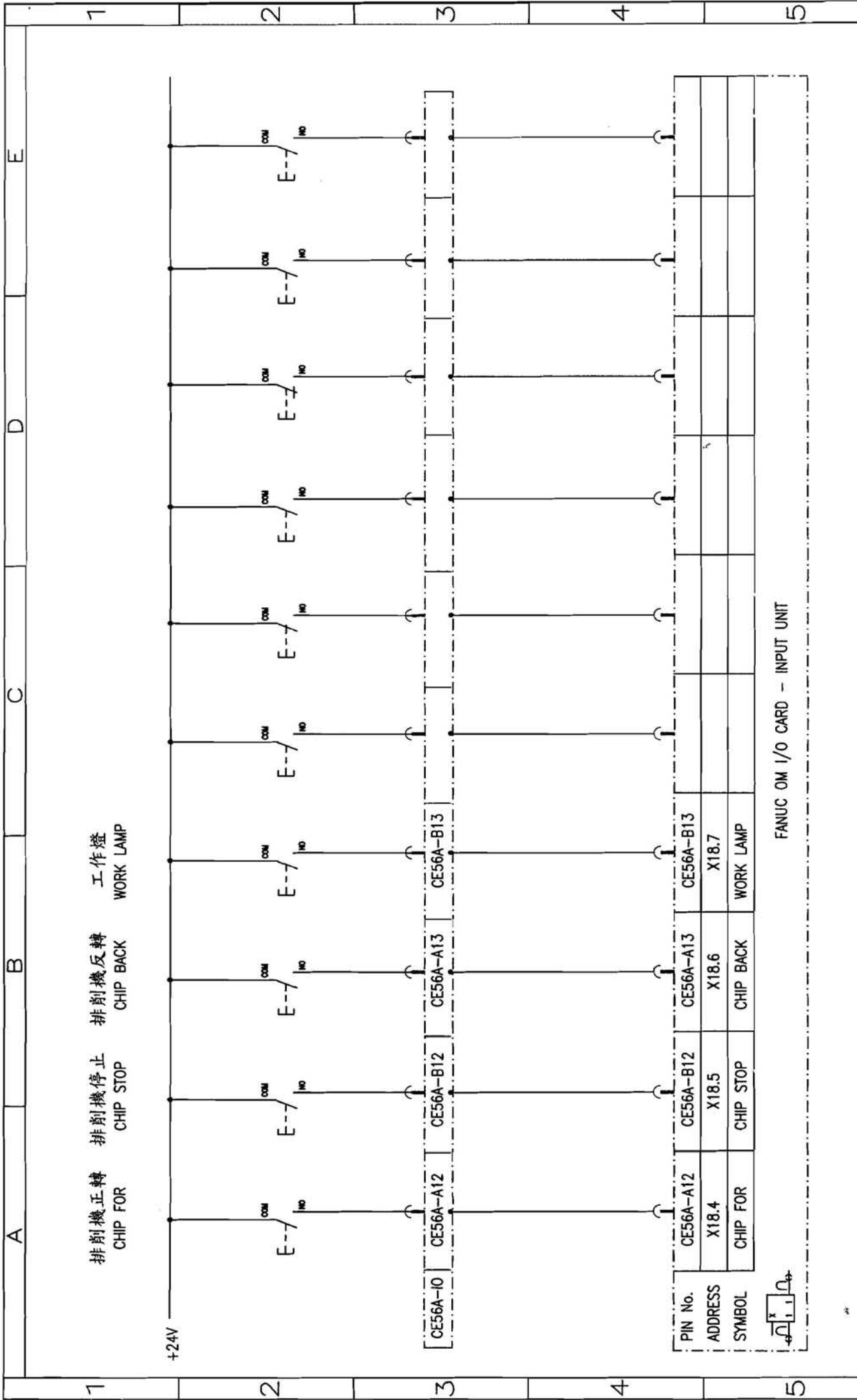
FANUC OM I/O CARD - INPUT UNIT



DESCRIPTION
OPERTOR PANEL IN

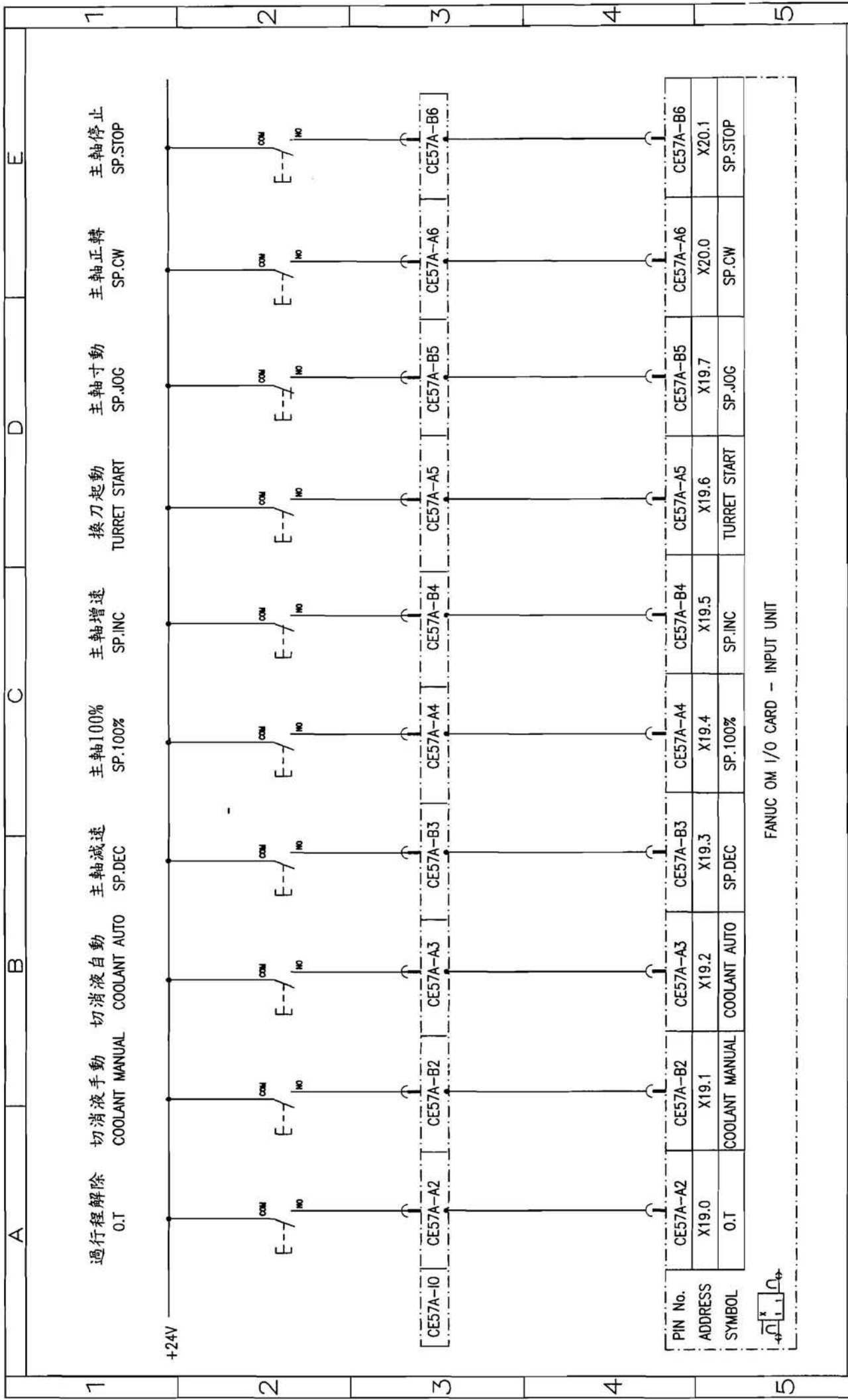
FILE NO.
BUTTON X17.2-X18.3

PAGE
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A	B	C	D	E
DESCRIPTION			FILE NO.	PAGE
OPERTOR PANEL IN			BUTTON X18.4-X18.7	4/7





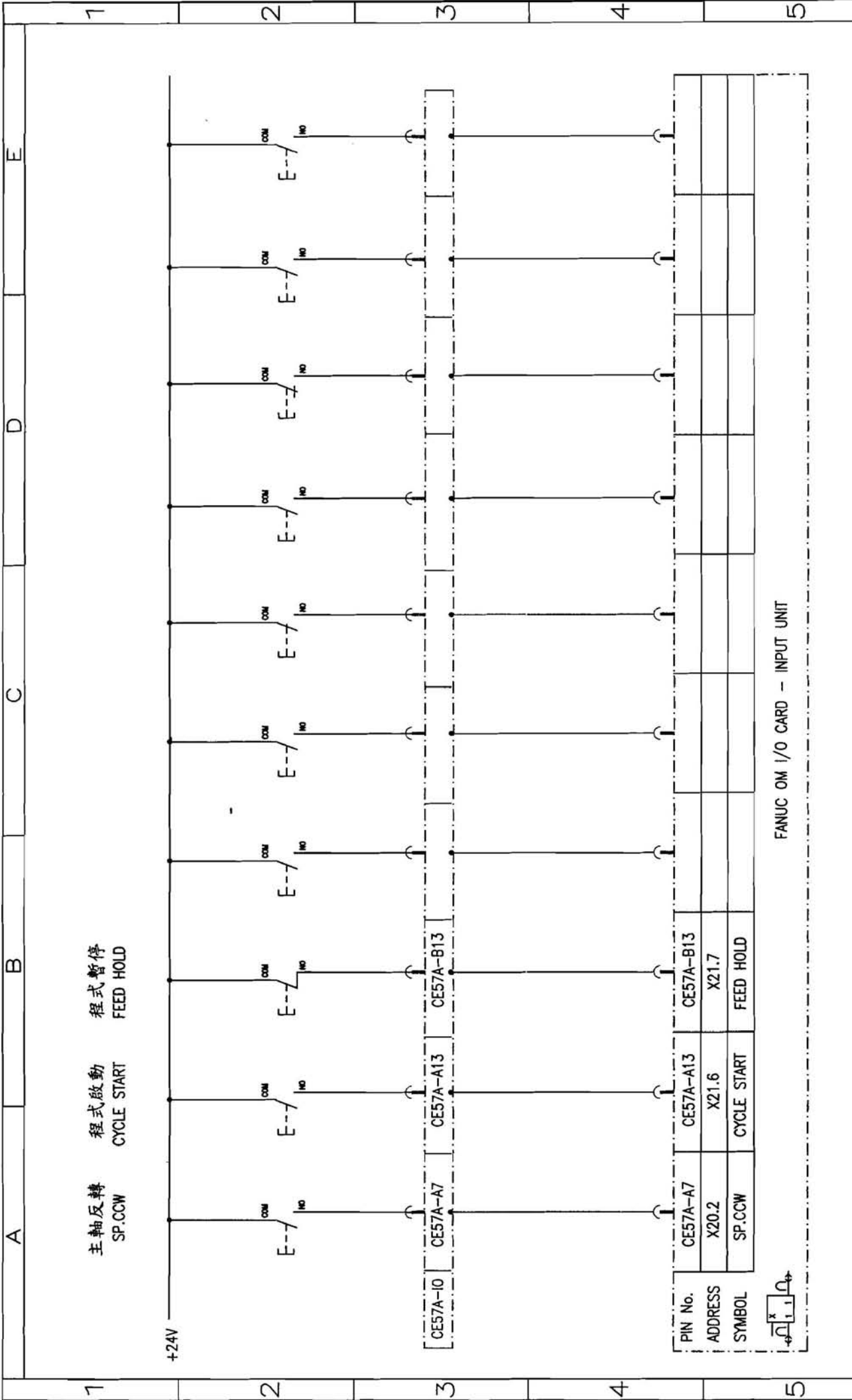
過行程解除 O.T	切消液手動 COOLANT MANUAL	切消液自動 COOLANT AUTO	主軸減速 SP.DEC	主軸100% SP.100%	主軸增速 SP.INC	換刀起動 TURRET START	主軸寸動 SP.JOG	主軸正轉 SP.CW	主軸停止 SP.STOP
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PIN No.	CE57A-A2	CE57A-B2	CE57A-A3	CE57A-B3	CE57A-A4	CE57A-B4	CE57A-A5	CE57A-B5	CE57A-A6	CE57A-B6
ADDRESS	X19.0	X19.1	X19.2	X19.3	X19.4	X19.5	X19.6	X19.7	X20.0	X20.1
SYMBOL	O.T	COOLANT MANUAL	COOLANT AUTO	SP.DEC	SP.100%	SP.INC	TURRET START	SP.JOG	SP.CW	SP.STOP

FANUC OM I/O CARD - INPUT UNIT

A		B		C		D		E	
DESCRIPTION					FILE NO.				
OPERATOR PANEL IN					BUTTON X19.0-X20.1				
					PAGE				
					5/7				





主軸反轉 程式暫停
SP.CCW 程式啟動 程式暫停
FEED HOLD

CYCLE START

FEED HOLD

PIN No.	CE57A-A7	CE57A-A13	CE57A-B13
ADDRESS	X20.2	X21.6	X21.7
SYMBOL	SP.CCW	CYCLE START	FEED HOLD

FANUC OM I/O CARD - INPUT UNIT

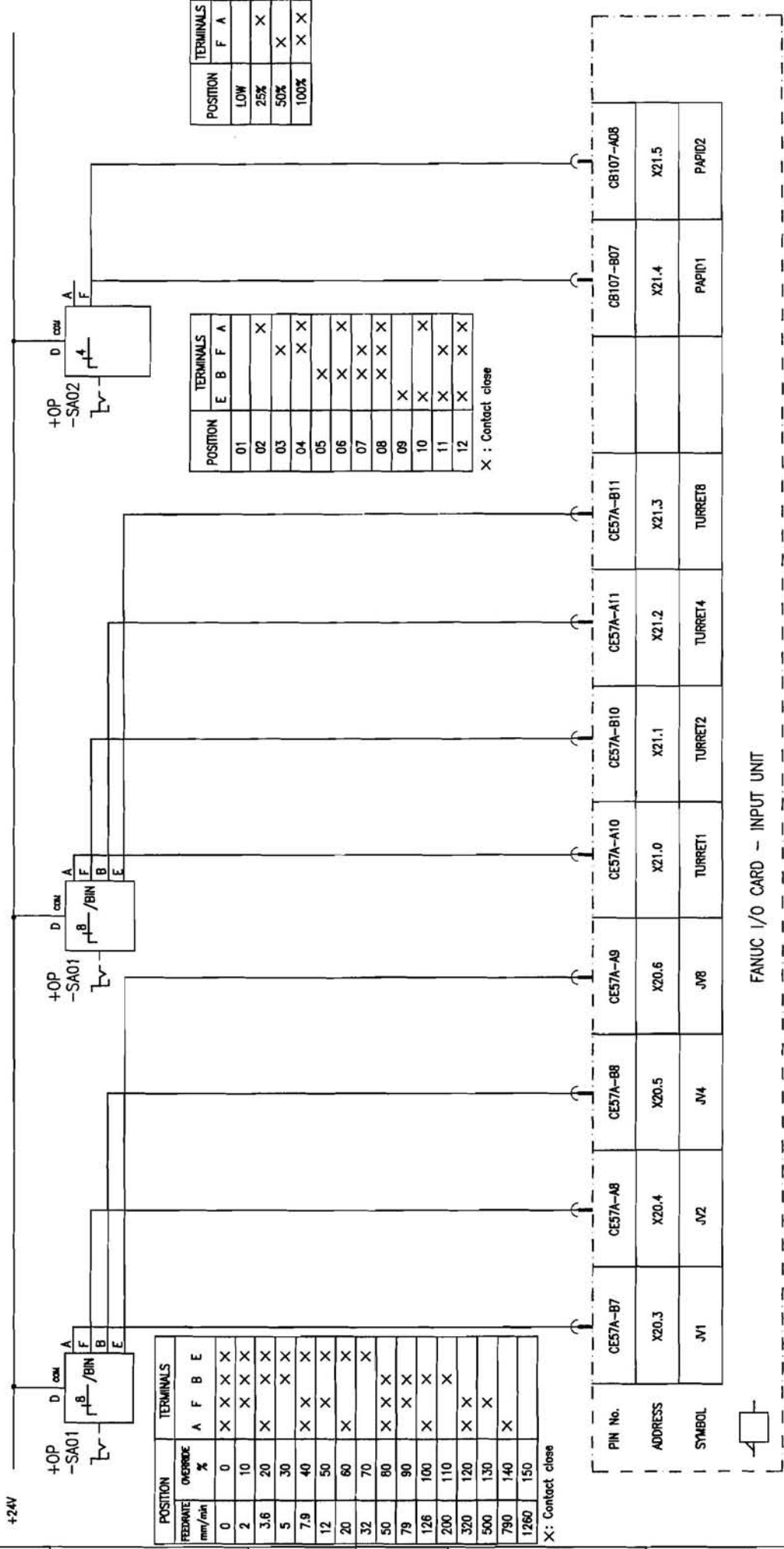
A		B		C		D		E	
DESCRIPTION					FILE NO.				
OPERTOR PANEL IN					BUTTON X20.2-X21.7				
					PAGE				
					6/7				



切削進給率
Feedrate override %

刀具號碼
TOOL NUMBER

快速進給率
RAPID OVERRIDE



POSITION	FEEDRATE mm/min	TERMINALS				
		A	F	B	E	
0	0	X	X	X	X	
2	10	X	X	X	X	
3.6	20	X	X	X	X	
5	30	X	X	X	X	
7.9	40	X	X	X	X	
12	50	X	X	X	X	
20	60	X	X	X	X	
32	70	X	X	X	X	
50	80	X	X	X	X	
79	90	X	X	X	X	
126	100	X	X	X	X	
200	110	X	X	X	X	
320	120	X	X	X	X	
500	130	X	X	X	X	
790	140	X	X	X	X	
1260	150	X	X	X	X	

POSITION	TERMINALS			
	E	B	F	A
01				
02			X	
03			X	
04			X	X
05			X	X
06			X	X
07			X	X
08			X	X
09			X	
10			X	X
11			X	X
12			X	X

POSITION	TERMINALS	
	F	A
LOW		
25%	X	
50%	X	
100%	X	X

X : Contact close

X : Contact close

FANUC I/O CARD - INPUT UNIT

PIN No.	CE57A-B7	CE57A-A8	CE57A-B8	CE57A-A9	CE57A-B10	CE57A-A11	CE57A-B11	CB107-B07	CB107-A08
ADDRESS	X20.3	X20.4	X20.5	X20.6	X21.1	X21.2	X21.3	X21.4	X21.5
SYMBOL	JV1	JV2	JV4	JV8	TURRET2	TURRET4	TURRET8	PAPI01	PAPI02

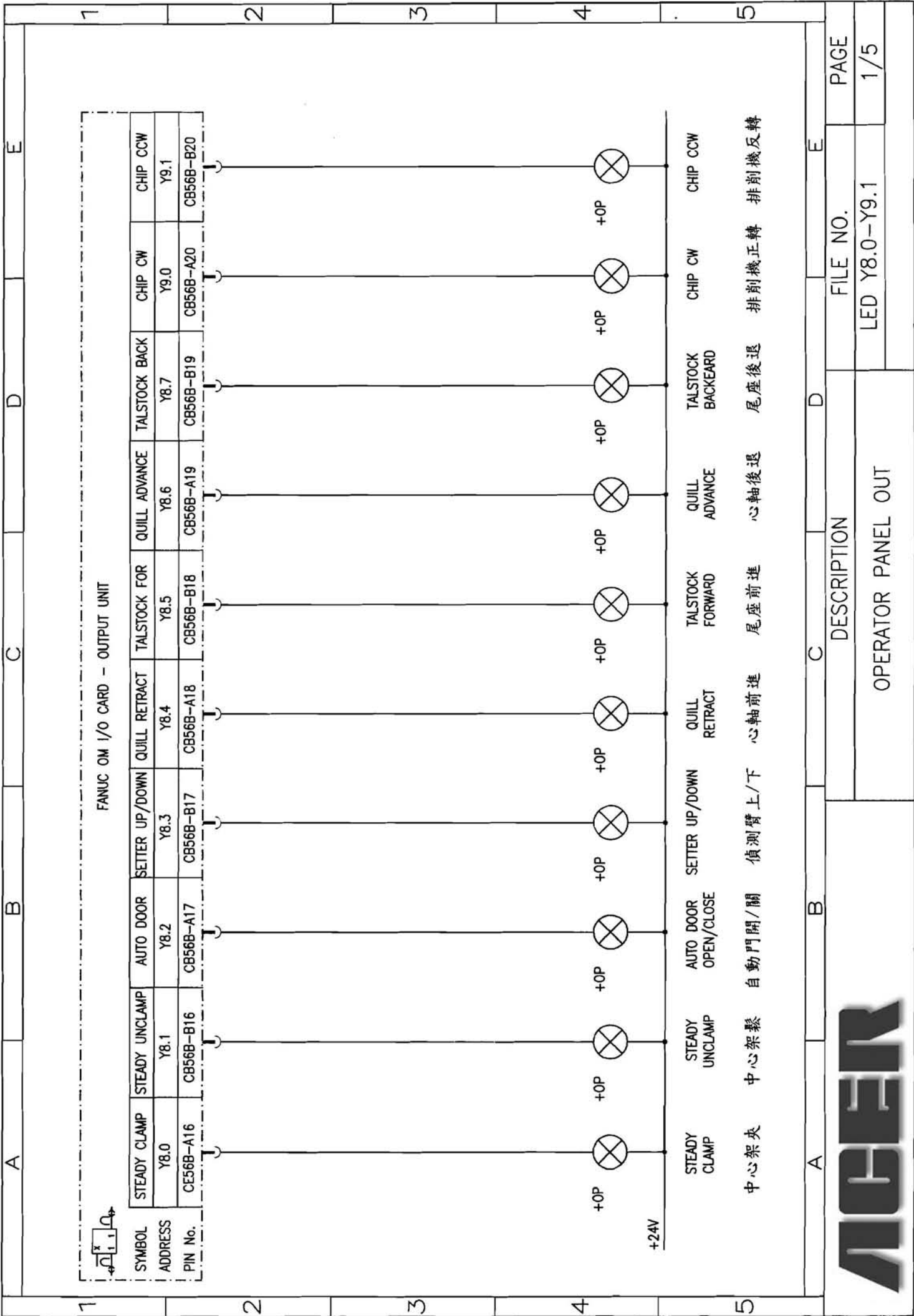


DESCRIPTION
OPERATOR PANEL IN

FILE NO.
BUTTON X20.3-X21.5

PAGE

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DESCRIPTION

OPERATOR PANEL OUT

FILE NO.

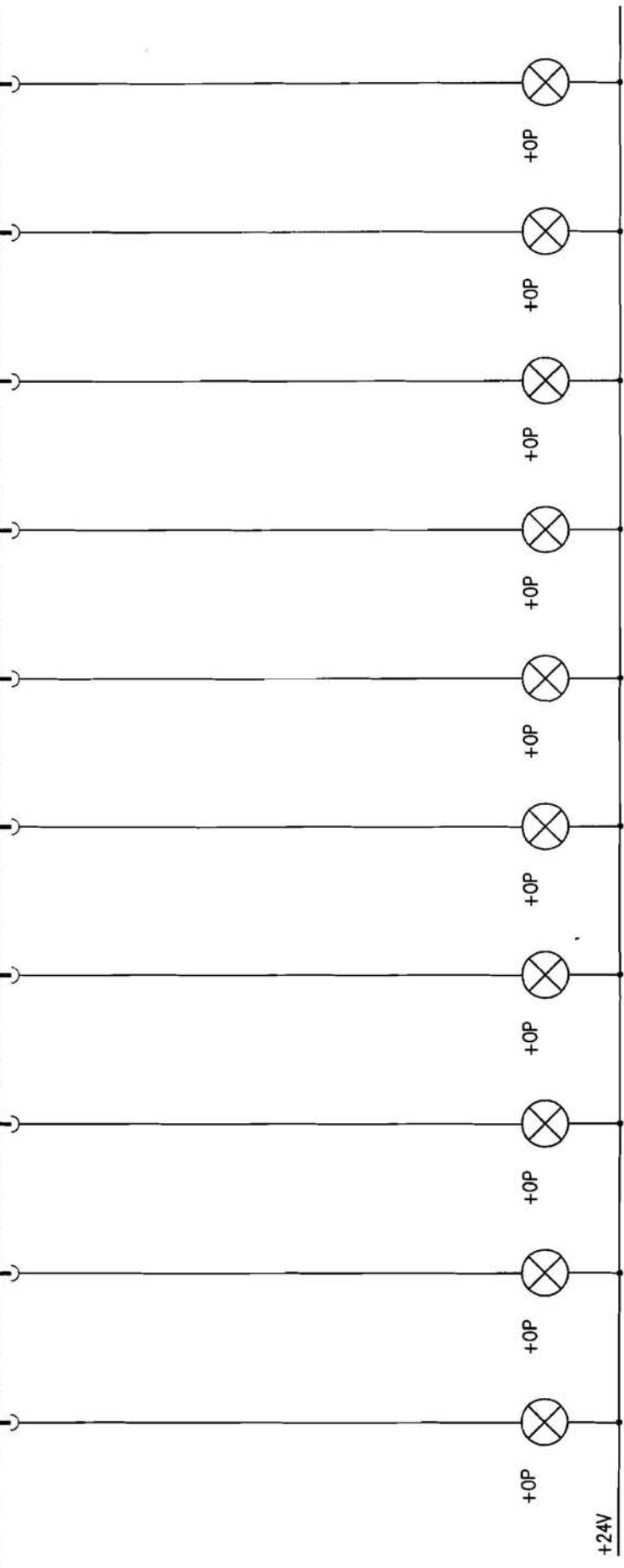
LED Y8.0-Y9.1

PAGE

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FANUC OM I/O CARD - OUTPUT UNIT

SYMBOL ADDRESS	WORK LAMP	CHIP STOP	Z HOME	X HOME	Y9.6	Y9.7	QUILL ADVANCE	SPCW.L	SPCC.L	SPSP.L
Y9.2	CE56B-A21	CB56B-B21	CB56B-A22	CB56B-B22	CB56B-A23	CB56B-B23	CB56A-A16	CB56A-B16	CB56A-A17	CB56A-B17
Y9.3			Y9.4	Y9.5	Y9.6	Y9.7	Y16.0	Y16.1	Y16.2	Y16.3



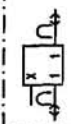
WORK LAMP CHIP STOP Z HOME X HOME SINGLE BLOCK BLOCK SKIP OPTION STOP DRY RUN

工作燈 排削機停止 Z軸原點燈 X軸原點燈 單節跳躍 單節跳躍 選擇性停止 空跑

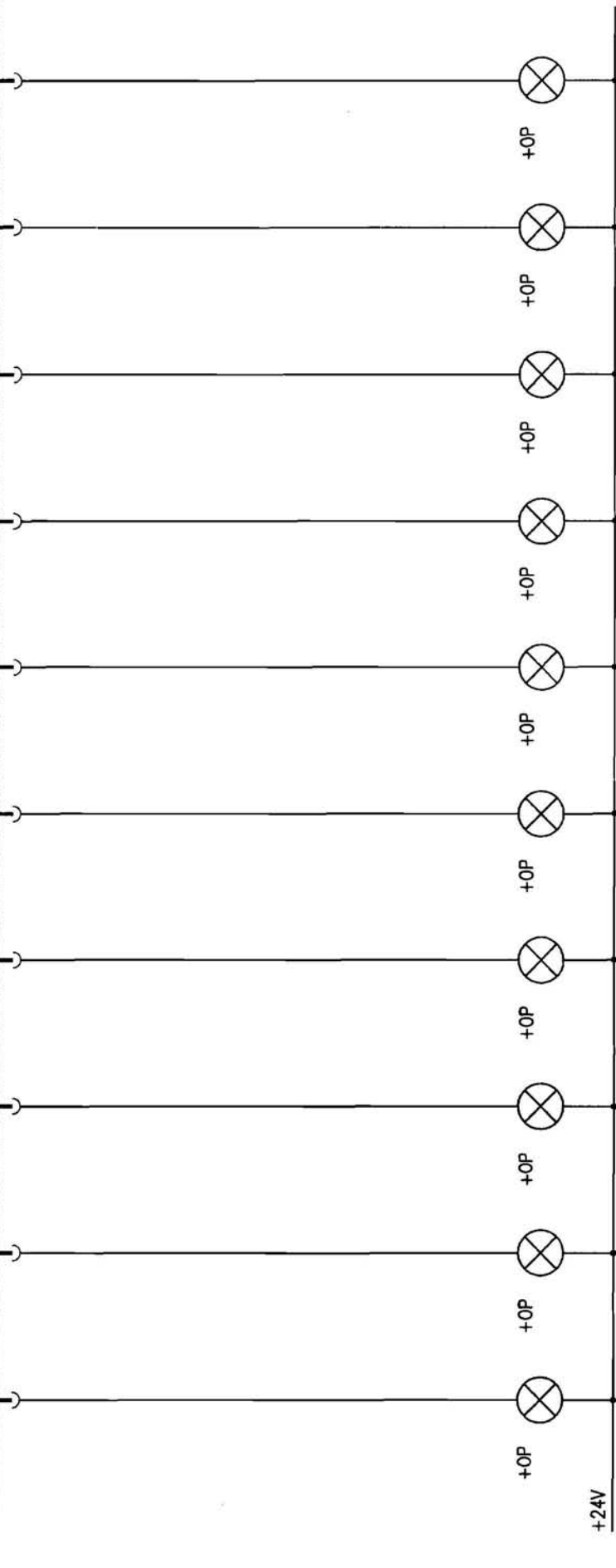


1 2 3 4 5

FANUC OM I/O CARD - OUTPUT UNIT



SYMBOL ADDRESS	M. S. T LOCK	CYCLE START	FEED HOLD	DNC	AUTO	EDIT	MDI	MPG	JOG
Y16.4	Y16.5	Y16.6	Y16.7	Y17.0	Y17.1	Y17.2	Y17.3	Y17.4	Y17.5
CE56A-A18	CB56A-B18	CB56A-A19	CB56A-B19	CB56A-A20	CB56A-B20	CB56A-A21	CB56A-B21	CB56A-A22	CB56A-B22

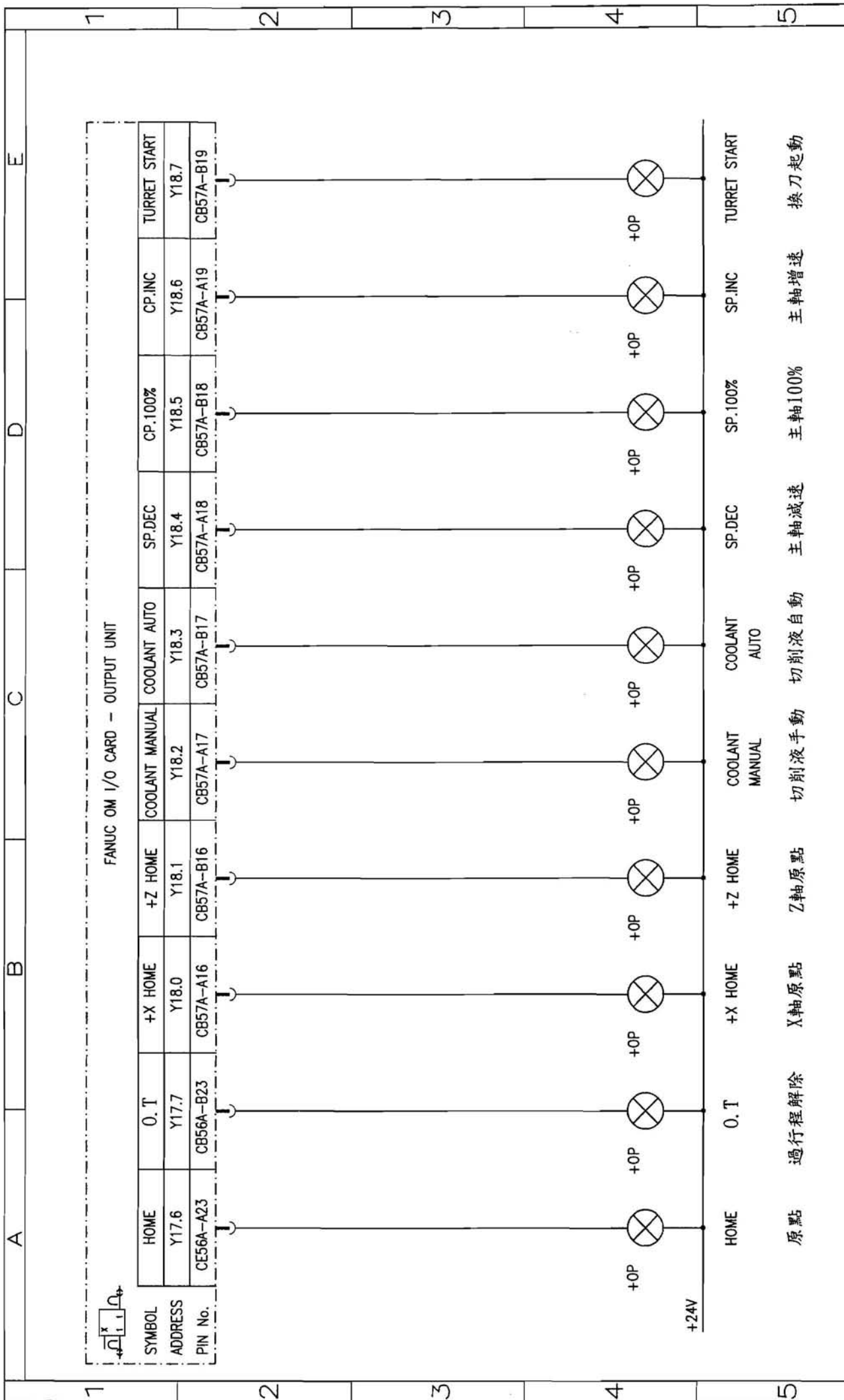


MACHINE LOCK M. S. T LOCK CYCLE START FEED HOLD DNC AUTO EDIT MDI MPG JOG
 機械鎖住 M. S. T鎖住 程式啟動 程式暫停 邊傳邊做 自動 編輯 手動輸入 手輪 寸動

A B C D E

OPERATOR PANEL OUT		DESCRIPTION	FILE NO.	PAGE
			LED Y16.4-Y17.5	3/5

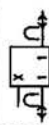




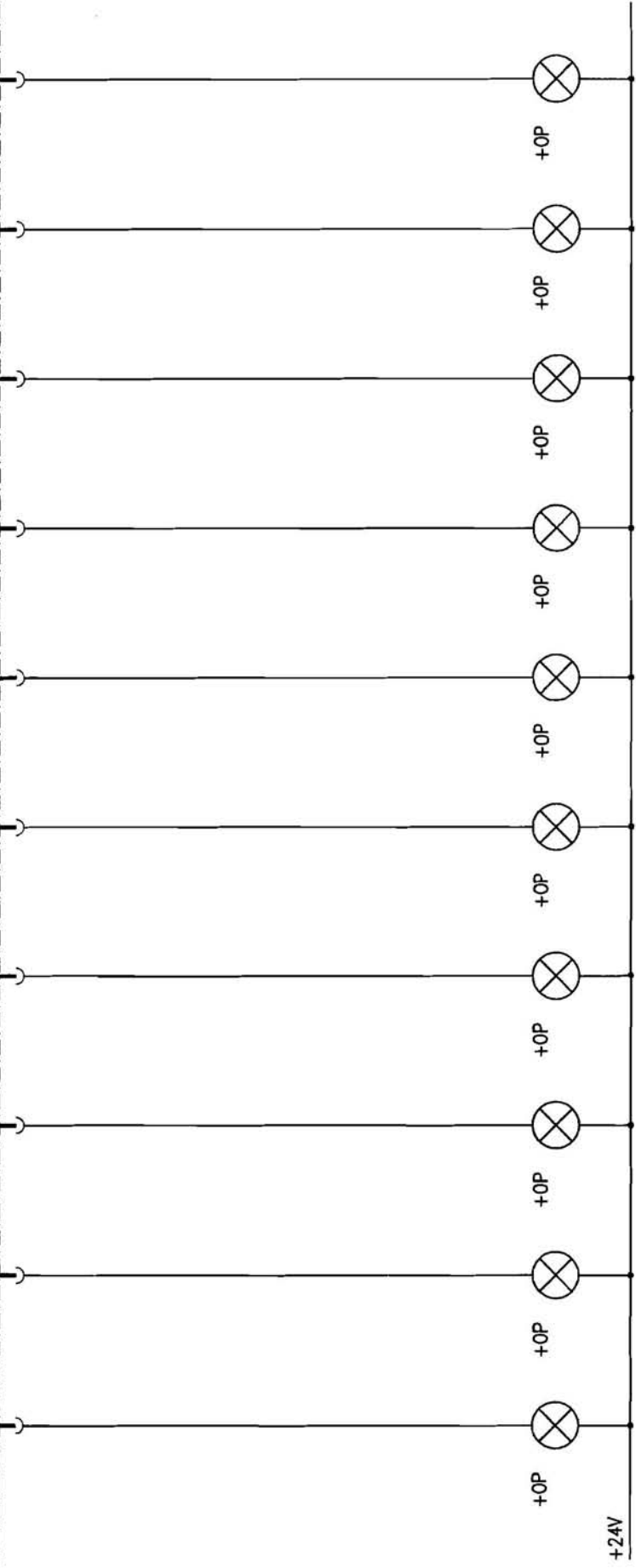
1

1

FANUC OM I/O CARD - OUTPUT UNIT



SYMBOL	SP.JOG	SP.CW	SP.STOP	SP.CCW	EMG	ALARM	CHUCK READY	NC READY
ADDRESS	Y19.0	Y19.1	Y19.2	Y19.3	Y19.4	Y19.5	Y19.6	Y19.7
PIN No.	CB57A-A20	CB57A-B20	CB57A-A21	CB57A-B21	CB57A-A22	CB57A-B22	CB57A-A23	CB57A-B23



SP.JOG SP.CW SP.STOP SP.CCW EMG ALARM CHUCK READY NC READY

主軸寸動 主軸正轉 主軸停止 主軸反轉 緊急異常 異常 夾頭夾緊 控制器開通

2

2

3

3

4

4

5

5

DESCRIPTION

OPERATOR PANEL OUT

FILE NO.

LED Y19.0-Y19.7

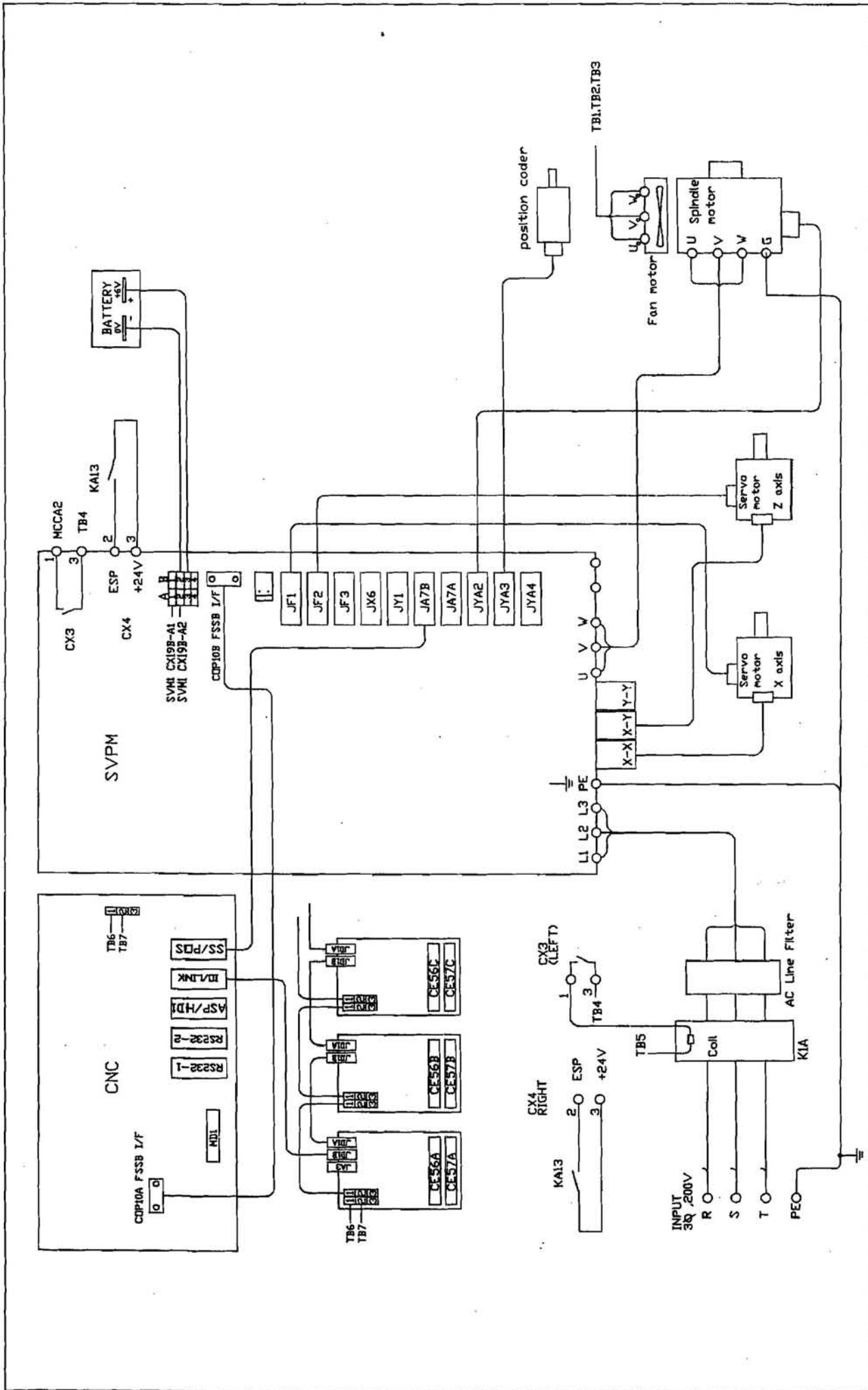
PAGE

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項次	線材	線長	護管	管長	前接頭	線色	撥線	號碼圈	端子	用途	後接頭	撥線	號碼圈	端子	備註
14	1.25*4C	1.7M				棕	15cm	TB1	歐端	SP FAN		10cm	U	歐端	
						藍	15cm	TB2	歐端			10cm	V	歐端	
						黑	15cm	TB3	歐端			10cm	W	歐端	
15	1.25*4C	2.4M				棕	30cm	KAI17-NO	歐端	ALARM AUTO PROGRAM END ALAMP		10cm	R	子彈母	
						藍	30cm	KAI18-NO	歐端			10cm	G	子彈母	
						黑	30cm	KAI19-NO	歐端			10cm	Y	子彈母	
						白	30cm	TB5	歐端			10cm	COM	子彈母	
16	1.25*4C	0.25M				棕	15cm	Q3-2	1.25-4Y	CHIP IN	254 母	5cm			
						藍	15cm	Q3-4	1.25-4Y			5cm			
						黑	15cm	Q3-6	1.25-4Y			5cm			
						黃	15cm	G	1.25-5R			5cm			
						棕	10cm	U	1.25-4Y			10cm			
17	1.25*4C	1.4M	3/8"	1.3M	彎	藍	10cm	V	1.25-4Y	CHIP OUT	254 公	10cm			
						黑	10cm	W	1.25-4Y			10cm			
						黃	10cm	G	1.25-5R			10cm			
						棕	15cm	Q1-2	1.25-4Y			5cm			
						藍	15cm	Q1-4	1.25-4Y			5cm			
18	1.25*4C	0.35M				黑	15cm	Q1-6	1.25-4Y	COOLANT IN	304 母	5cm			
						黃	15cm	G	1.25-5R			5cm			
						棕	10cm	U	1.25-4Y			10cm			
						藍	10cm	V	1.25-4Y			10cm			
						黑	10cm	W	1.25-4Y			10cm			
19	1.25*4C	1.6M	3/8"	1.5M	彎	黃	10cm	G	1.25-5R	COOLANT OUT	304 公	10cm			
						棕	15cm	Q2-2	2-4Y			10cm			
						藍	15cm	Q2-4	2-4Y			10cm			
						黑	15cm	Q2-6	2-4Y			10cm			
						黃	15cm	G	2-5R			10cm			
20	2.0*4C	3.8M				棕	15cm	Q2-2	2-4Y	油壓馬達		10cm	U	2-5R	
						藍	15cm	Q2-4	2-4Y			10cm	V	2-5R	
						黑	15cm	Q2-6	2-4Y			10cm	W	2-5R	
						黃	15cm	G	2-5R			10cm	G	2-5R	

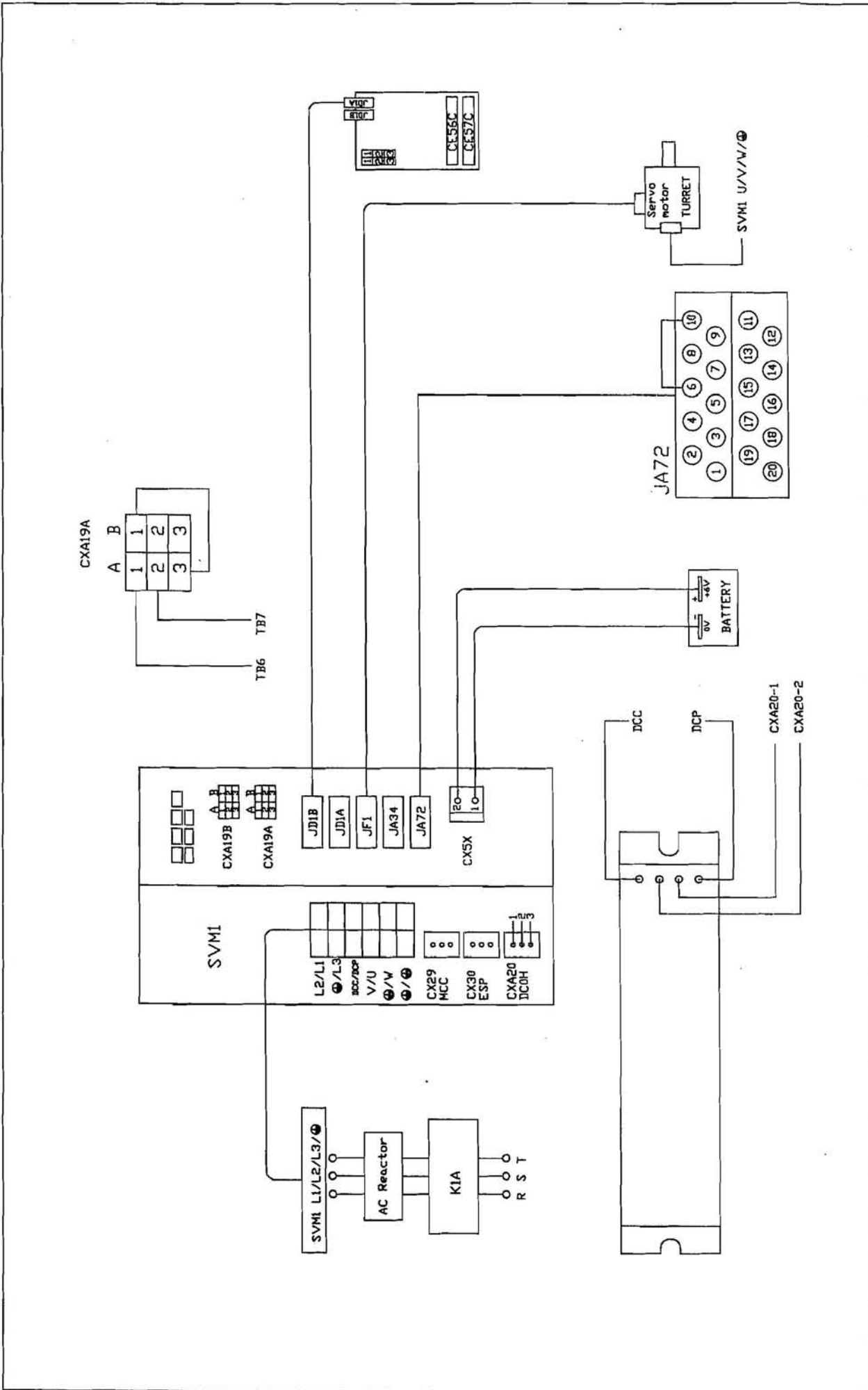
備註:
1. CX4 2.3短路
2. PCR 6.10短路



PSM SPM SVM CONNECTOR	FILE NO.	PAGE
	SERVO POWER	1/2



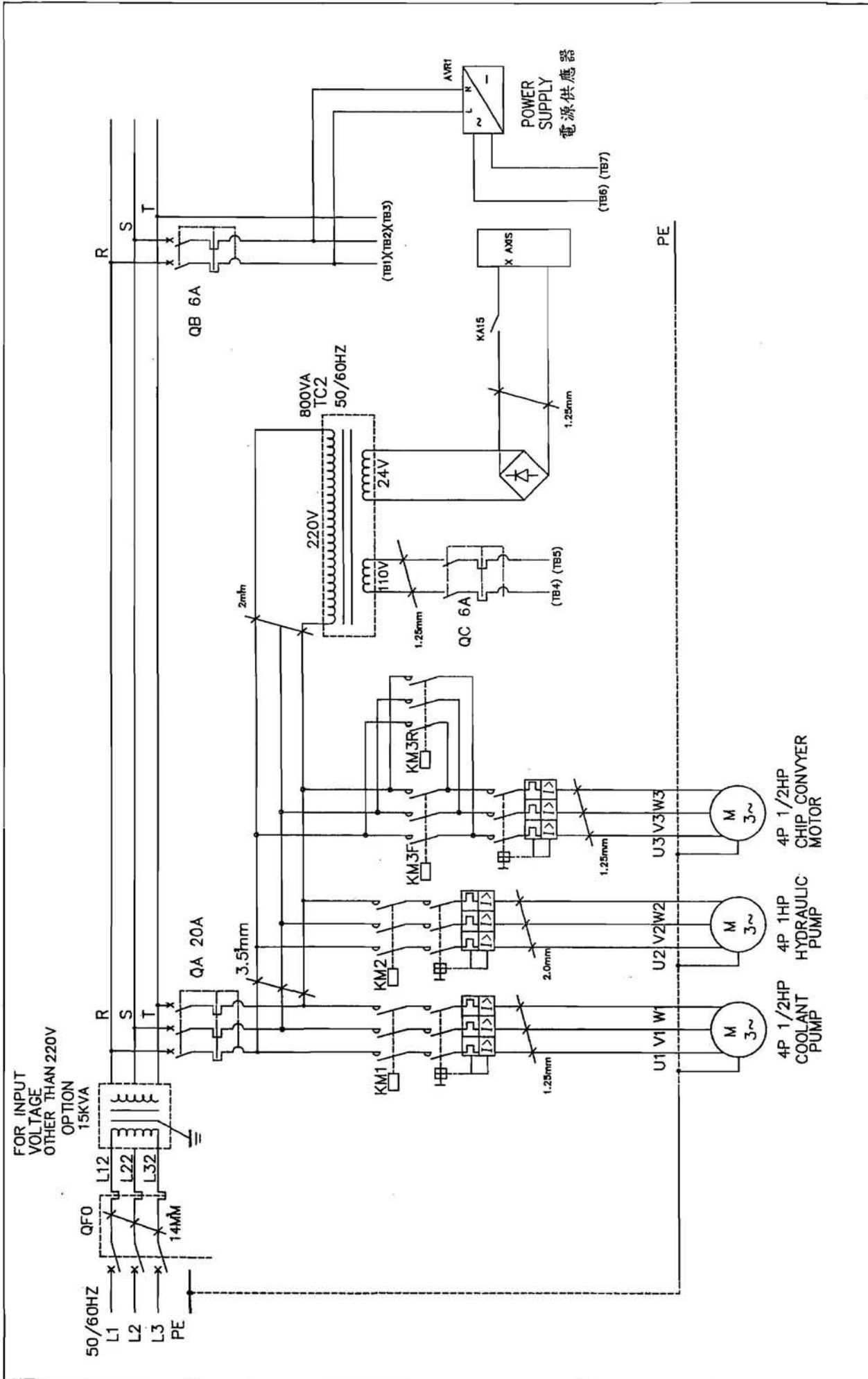
7-5



DESCRIPTION		FILE NO.	PAGE
PSM SPM SVM CONNECTOR		SERVO POWER1	2/2

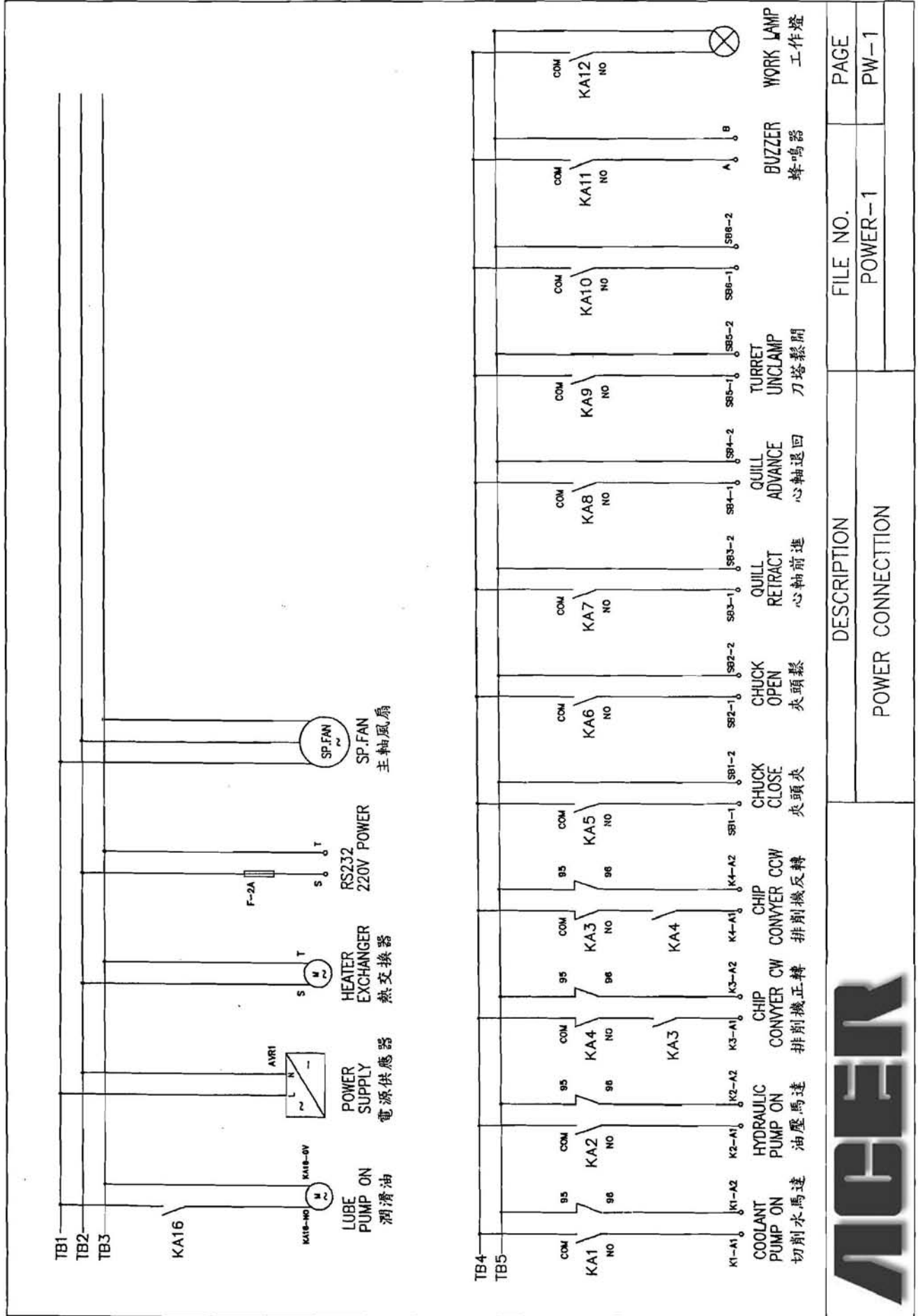


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POWER CONNECTION	DESCRIPTION	FILE NO.	PAGE
		POWER-0.	PW-0

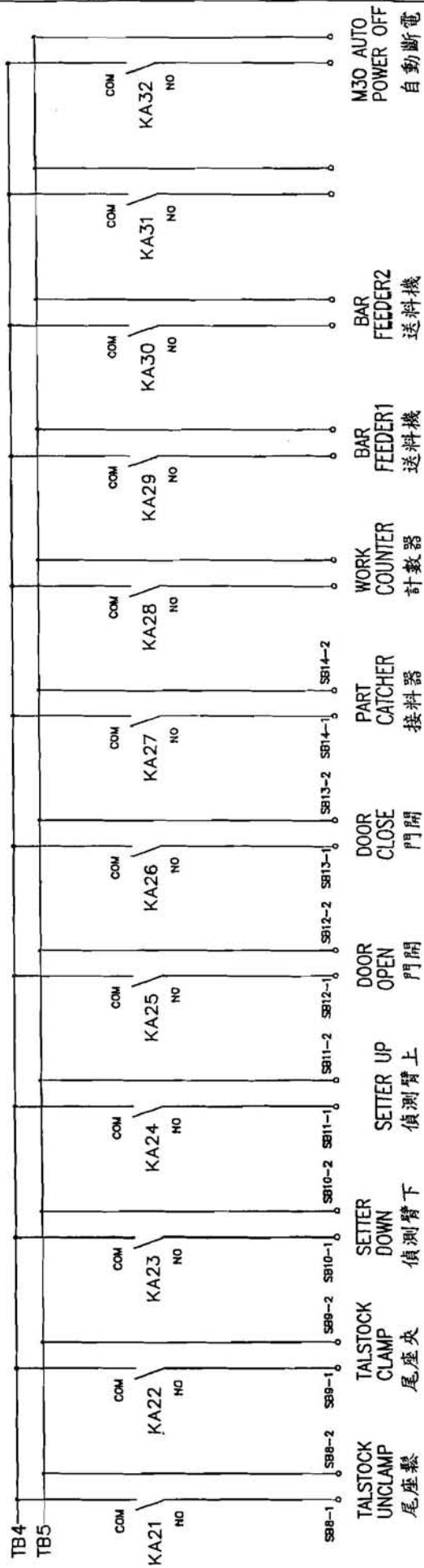
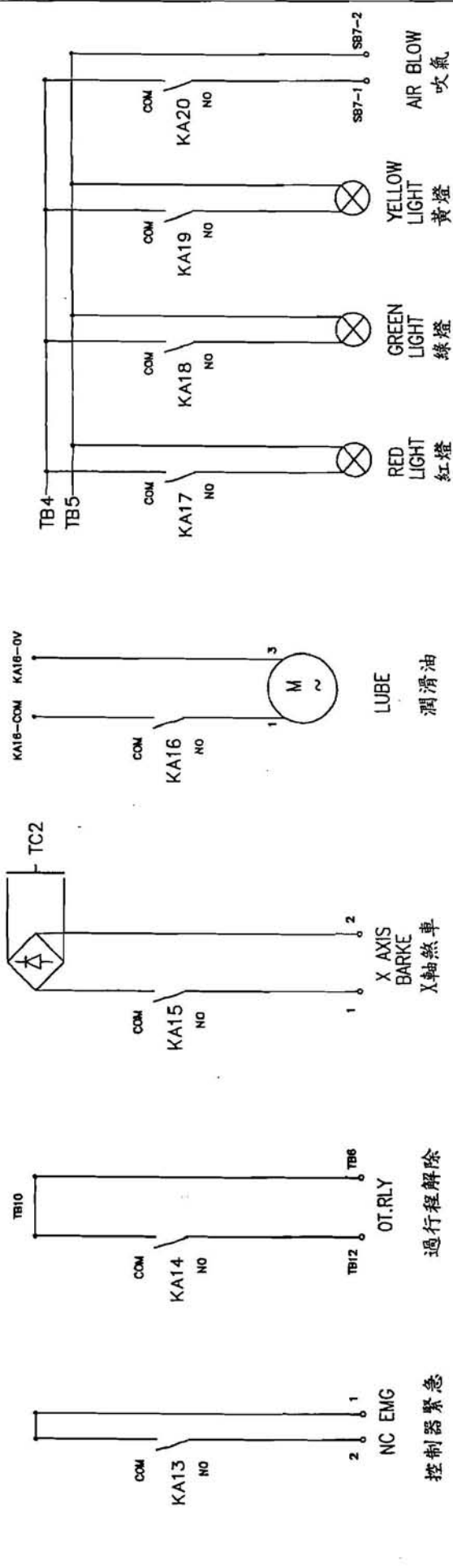




7-8

DESCRIPTION		FILE NO.	PAGE
POWER CONNECTION		POWER-1	PW-1



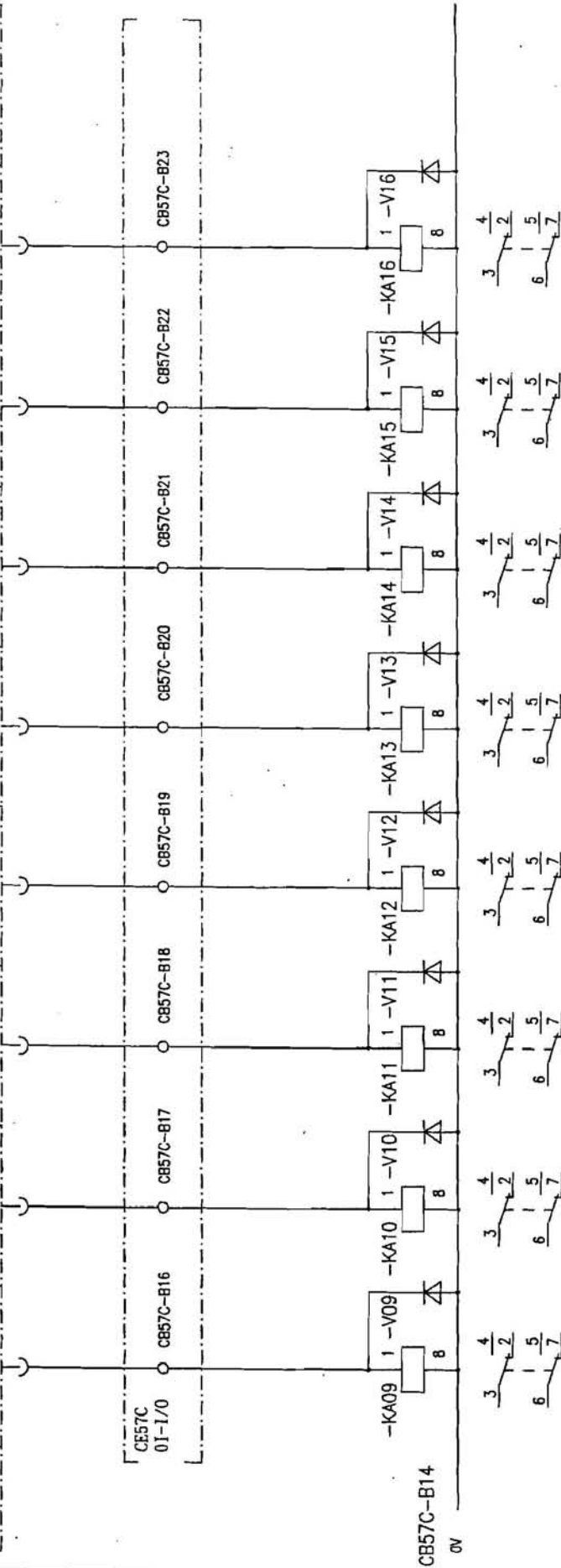


POWER CONNECTION		DESCRIPTION	FILE NO.	PAGE
			POWER-2	PW-2

FANUC I/O CARD - OUTPUT UNIT



SYMBOL	M59/M60	BUZZER	WORK LAMP	NC READY	OT.RLY	X AXIS BRAKE	LUBE PUMP MOTOR
TURRET UNCLAMP							
ADDRESS	Y6.3	Y6.5	Y6.7	Y7.1	Y7.3	Y7.5	Y7.7
PIN No.	CB57C-B17	CB57C-B18	CB57C-B19	CB57C-B20	CB57C-B21	CB57C-B22	CB57C-B23



M59/M60
TURRET UNCLAMP
刀塔鬆開

BUZZER
蜂鳴器

WORK LAMP
工作燈

NC READY
伺服器開通

OT.RLY
過行程釋放

X AXIS BRAKE
X軸煞車

LUBE PUMP MOTOR
潤滑油



DESCRIPTION

RELAY

FILE NO.

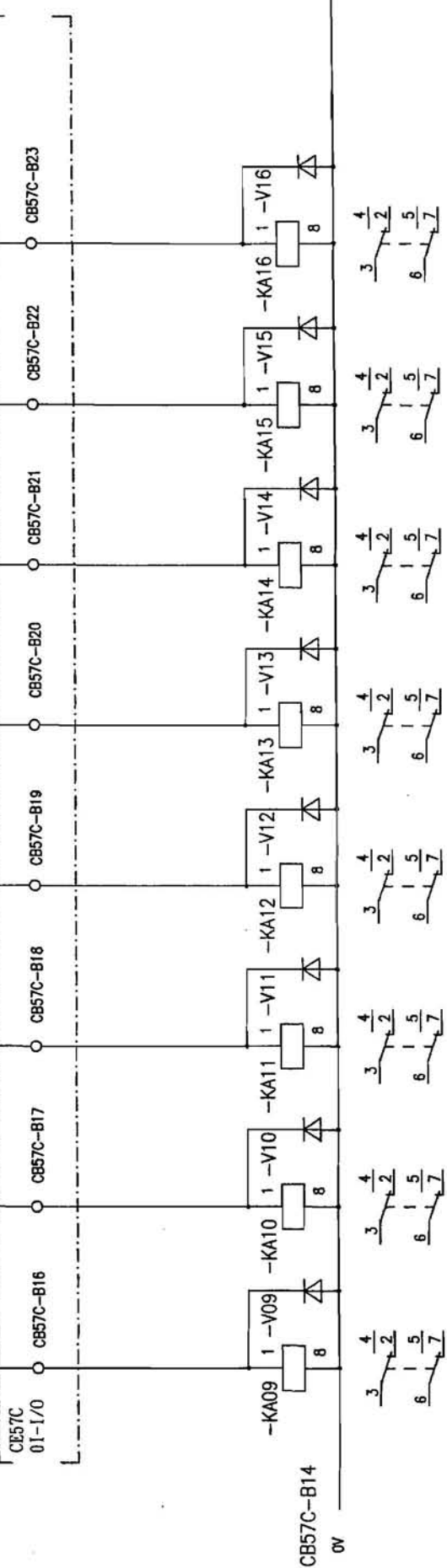
OUT KA09-KA16

PAGE

OUT 1/4

FANUC I/O CARD - OUTPUT UNIT

SYMBOL	TURRET UNCLAMP	BUZZER	WORK LAMP	NC READY	OT.RLY	X AXIS BRAKE	LUBE PUMP MOTOR
ADDRESS	Y6.1	Y6.3	Y6.5	Y6.7	Y7.1	Y7.3	Y7.5
PIN No.	CB57C-B16	CB57C-B17	CB57C-B18	CB57C-B19	CB57C-B20	CB57C-B21	CB57C-B22
							CB57C-B23



- TURRET UNCLAMP 刀塔鬆開
- BUZZER 蜂鳴器
- WORK LAMP 工作燈
- NC READY 伺服器開通
- OT.RLY 過行程釋放
- X AXIS BRAKE X軸煞車
- LUBE PUMP MOTOR 潤滑油

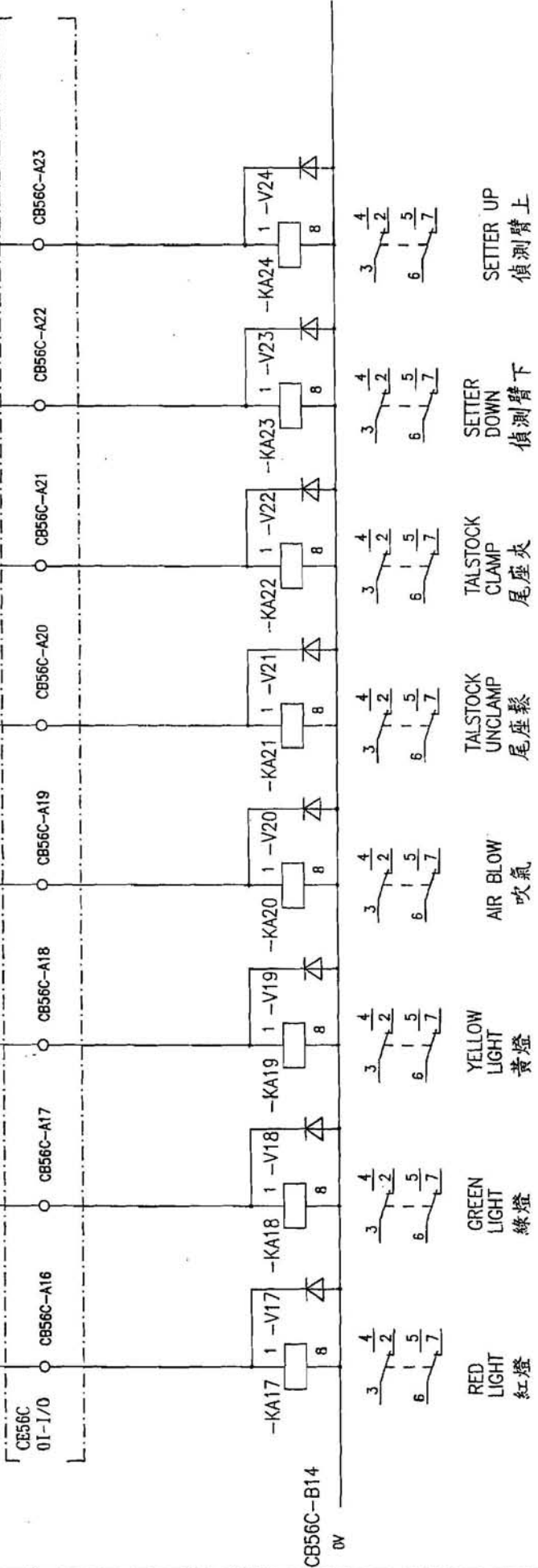
RELAY	DESCRIPTION	FILE NO.	PAGE
		OUT KA09-KA16	OUT 1/4



FANUC I/O CARD - OUTPUT UNIT



SYMBOL	RED LIGHT	GREEN LIGHT	YELLOW LIGHT	AIR BLOW	TALSTOCK UNCLOSE	TALSTOCK CLOSE	SETER DOWN	SETER UP
ADDRESS	Y4.0	Y4.2	Y4.4	Y4.6	Y5.0	Y5.2	Y5.4	Y5.6
PIN No.	CB56C-A16	CB56C-A17	CB56C-A18	CB56C-A19	CB57C-A20	CB57C-A21	CB57C-A22	CB57C-A23

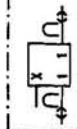


DESCRIPTION	FILE NO.	PAGE
RELAY	OUT KA17-KA24	OUT 3/4

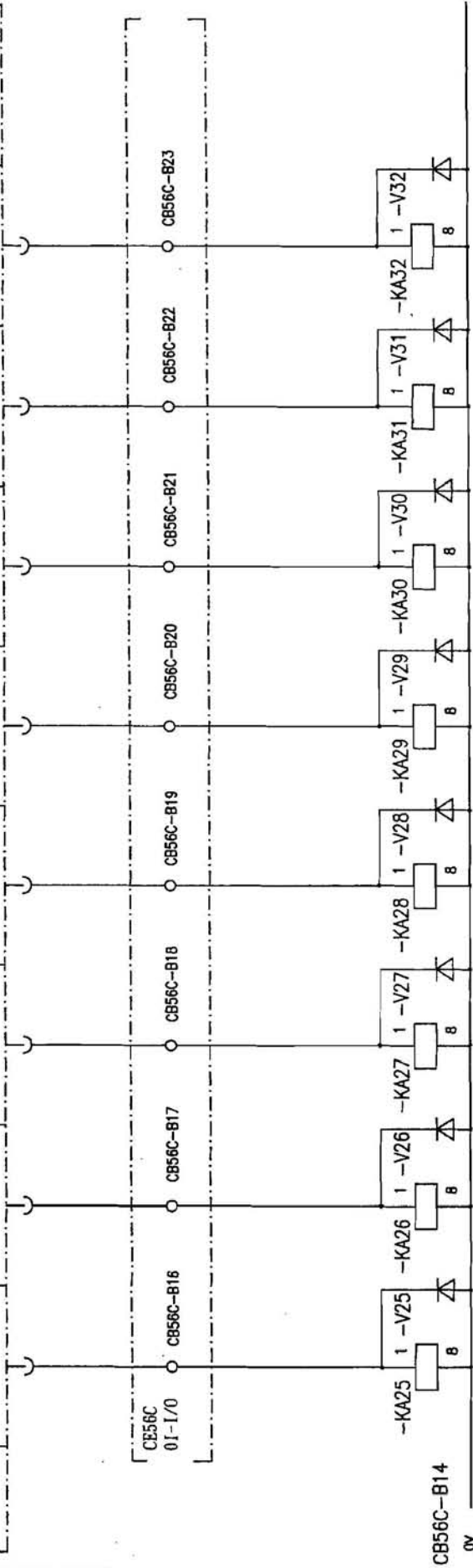
7-12



FANUC I/O CARD - OUTPUT UNIT



SYMBOL	DOOR OPEN	DOOR CLOSE	PART CATCHER	WORK LAMP	BAR FEEDER1	BAR FEEDER2	M30 AUTO POWER OFF
ADDRESS	Y4.1	Y4.3	Y4.5	Y4.7	Y5.1	Y5.3	Y5.5
PIN No.	CB56C-B16	CB56C-B17	CB56C-B18	CB56C-B19	CB56C-B20	CB56C-B21	CB56C-B23



- DOOR OPEN 門開
- DOOR CLOSE 門閉
- PART CATCHER 接料器
- WORK COUNTER 計數器
- BAR FEEDER1 送料機
- BAR FEEDER2 送料機
- M30 AUTO POWER OFF 自動斷電

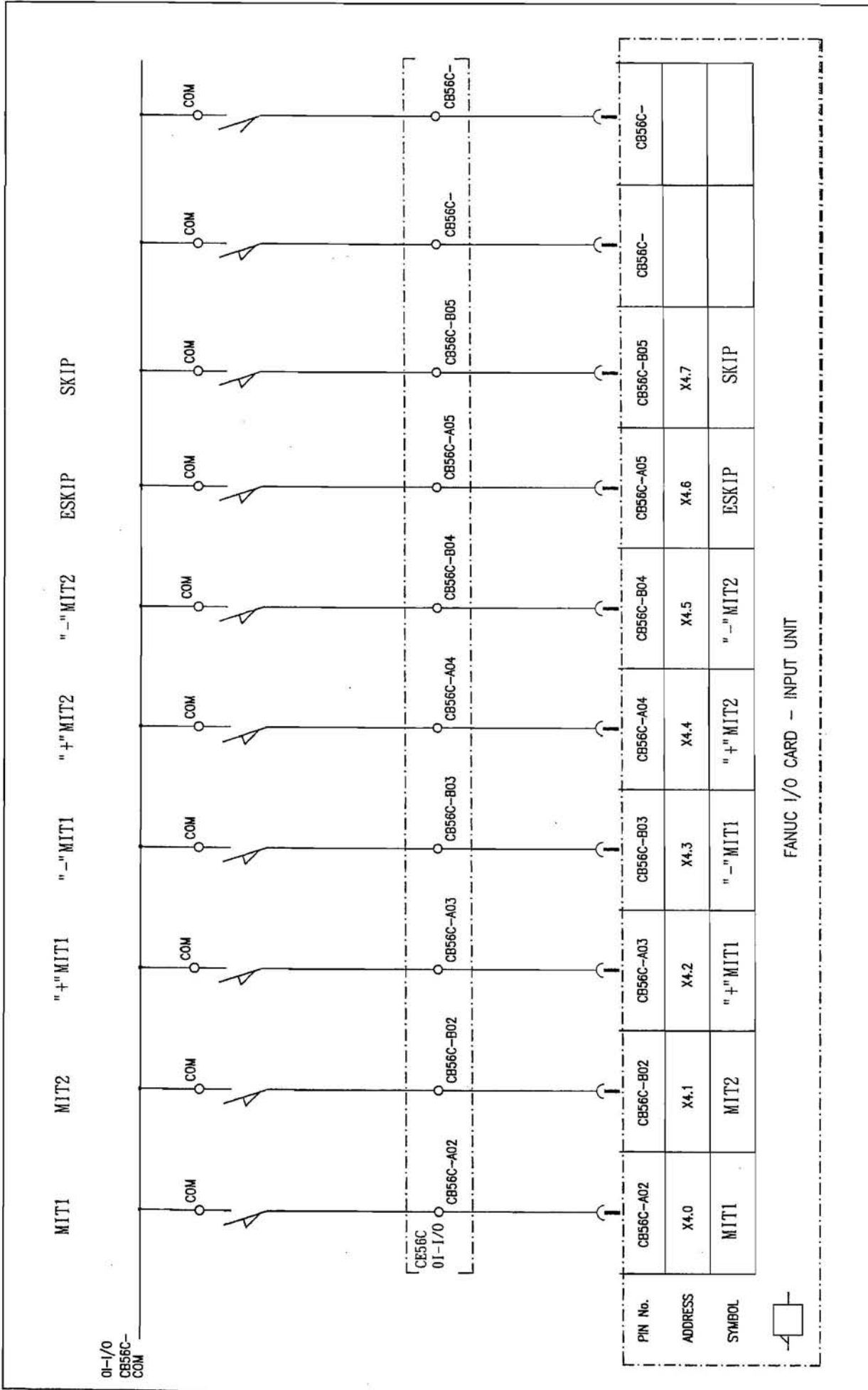


RELAY

DESCRIPTION

FILE NO. OUT KA25-KA32

PAGE OUT 4/4



FANUC I/O CARD - INPUT UNIT



DESCRIPTION MACHINE INPUT	FILE NO.	PAGE
	IN X4.0-X4.7	IN 1/6

7-14

尾座鬆檢出器
TAILSTOCK
OUT
SWITCH

偵測臂上
SETTER UP
SWITCH

尾座夾檢出器
TAILSTOCK
IN
SWITCH

偵測臂下
SETTER DOWN
SWITCH

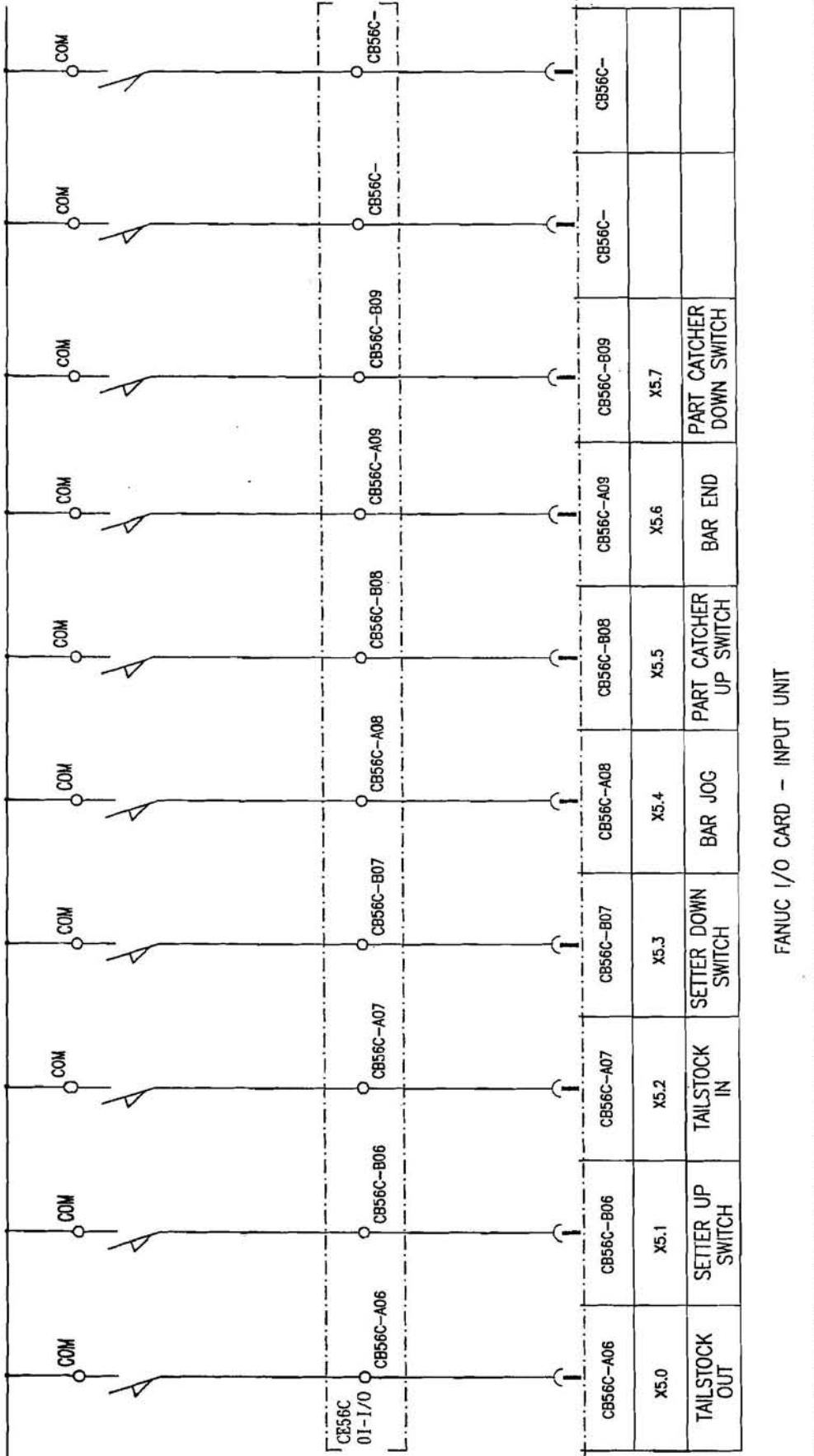
送料機JOG
BAR JOG

接料器上
PART CATCHER
UP SWITCH

送料機END
BAR END

接料器下
PART CATCHER
DOWN SWITCH

01-1/0
CB56C-
COM



CB56C
01-1/0

PIN No.	CB56C-A06	CB56C-B06	CB56C-A07	CB56C-B07	CB56C-A08	CB56C-B08	CB56C-A09	CB56C-B09	CB56C-	CB56C-
ADDRESS	X5.0	X5.1	X5.2	X5.3	X5.4	X5.5	X5.6	X5.7		
SYMBOL	TAILSTOCK OUT SWITCH	SETTER UP SWITCH	TAILSTOCK IN SWITCH	SETTER DOWN SWITCH	BAR JOG	PART CATCHER UP SWITCH	BAR END	PART CATCHER DOWN SWITCH		

FANUC I/O CARD - INPUT UNIT



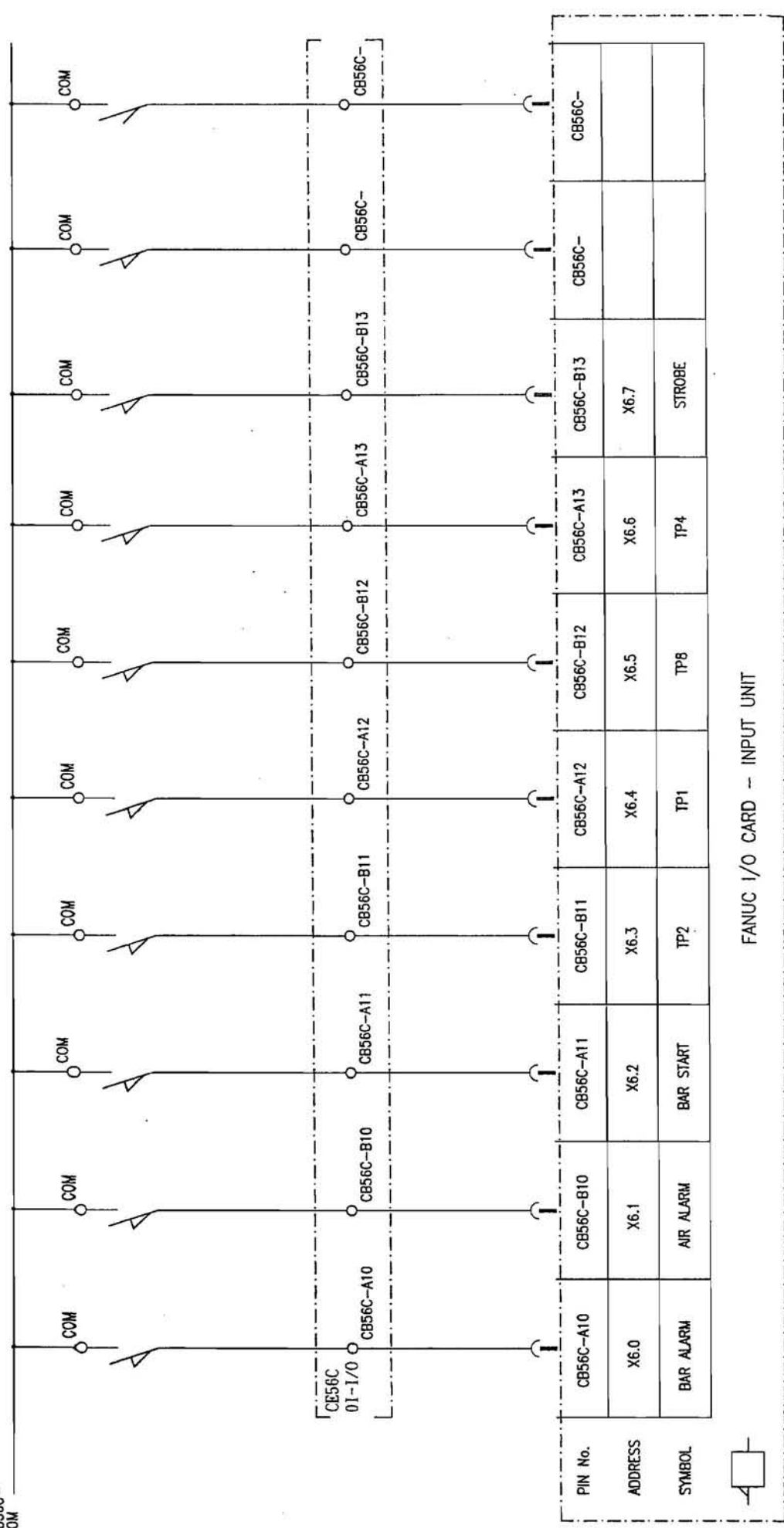
DESCRIPTION
MACHINE INPUT

FILE NO.
IN X5.0-X5.7

PAGE
IN 2/6

送料機ALARM 風壓ALARM 送料機START 油壓刀塔 TP2 油壓刀塔 TP1 油壓刀塔 TP8 油壓刀塔 TP4 油壓刀塔 STROBE

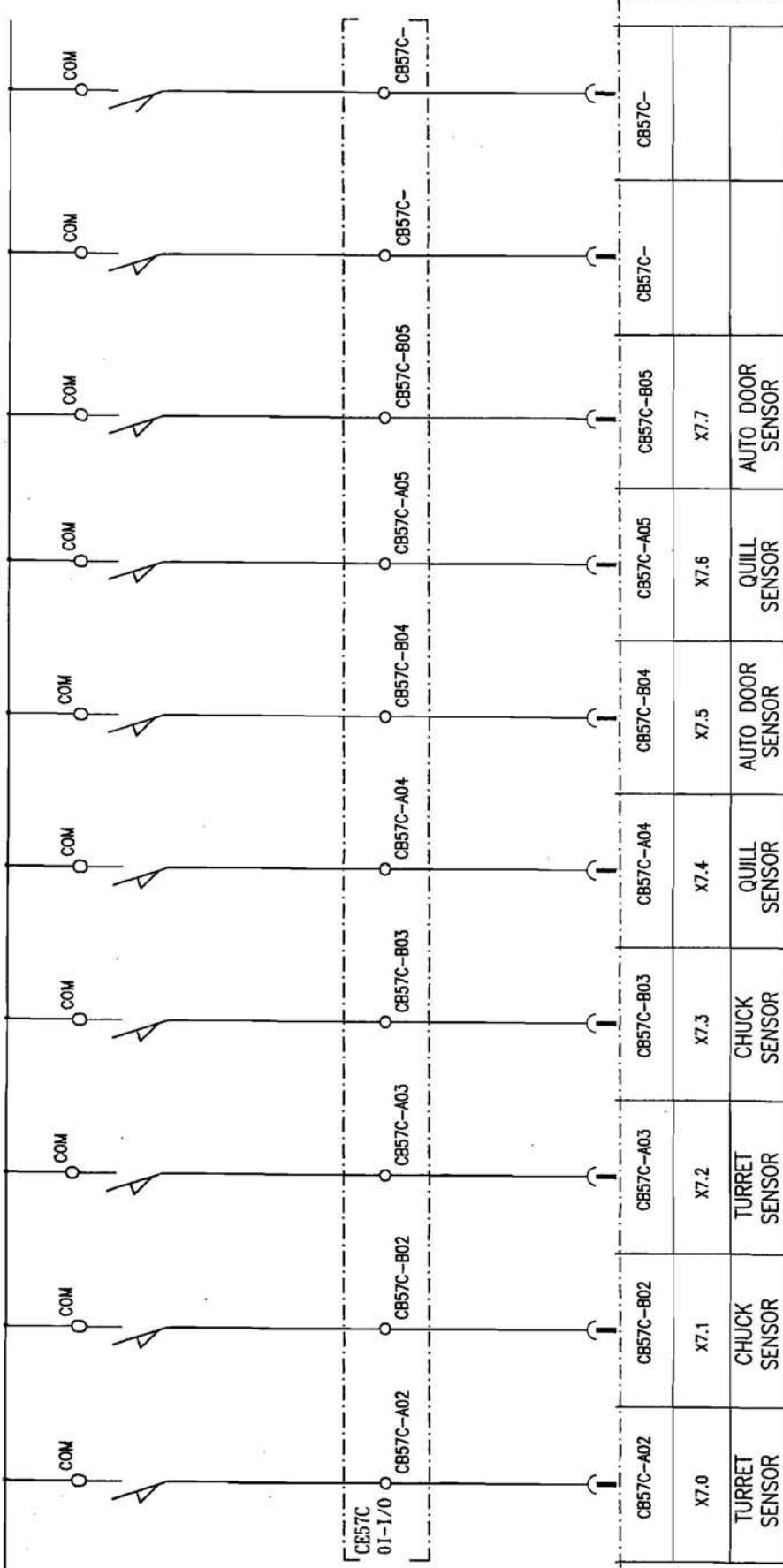
01-1/0
CB56C-
COM



FANUC I/O CARD - INPUT UNIT

刀塔夾檢出
TURRET CLAMP SENSOR
 夾頭夾檢出
CHUCK CLAMP SENSOR
 刀塔鬆檢出
TURRET UNCLAMP SENSOR
 夾頭鬆檢出
CHUCK UNCLAMP SENSOR
 心軸前檢出
QUILL ADVANCE SENSOR
 自動門開檢出
AUTO DOOR OPEN SENSOR
 心軸後檢出
QUILL RETRACT SENSOR
 自動門關檢出
AUTO DOOR CLOSE SENSOR

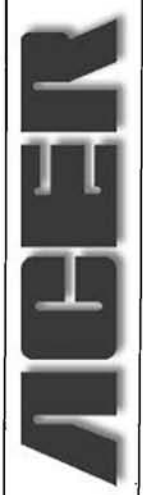
01-1/0
CB56C-
COM



CB57C
01-1/0

PIN No.	ADDRESS	SYMBOL	DESCRIPTION
CB57C-A02	X7.0	TURRET SENSOR	刀塔夾檢出
CB57C-B02	X7.1	CHUCK SENSOR	夾頭夾檢出
CB57C-A03	X7.2	TURRET SENSOR	刀塔鬆檢出
CB57C-B03	X7.3	CHUCK SENSOR	夾頭鬆檢出
CB57C-A04	X7.4	QUILL SENSOR	心軸前檢出
CB57C-B04	X7.5	AUTO DOOR SENSOR	自動門開檢出
CB57C-A05	X7.6	QUILL SENSOR	心軸後檢出
CB57C-B05	X7.7	AUTO DOOR SENSOR	自動門關檢出

FANUC I/O CARD - INPUT UNIT



DESCRIPTION
MACHINE INPUT

FILE NO.
IN X7.0-X7.7

PAGE
IN 4/6

心軸腳踏開關
QUILL FOOT SWITCH

CE功能
0=CE

X軸煞車檢出
X AXIS SENSOR

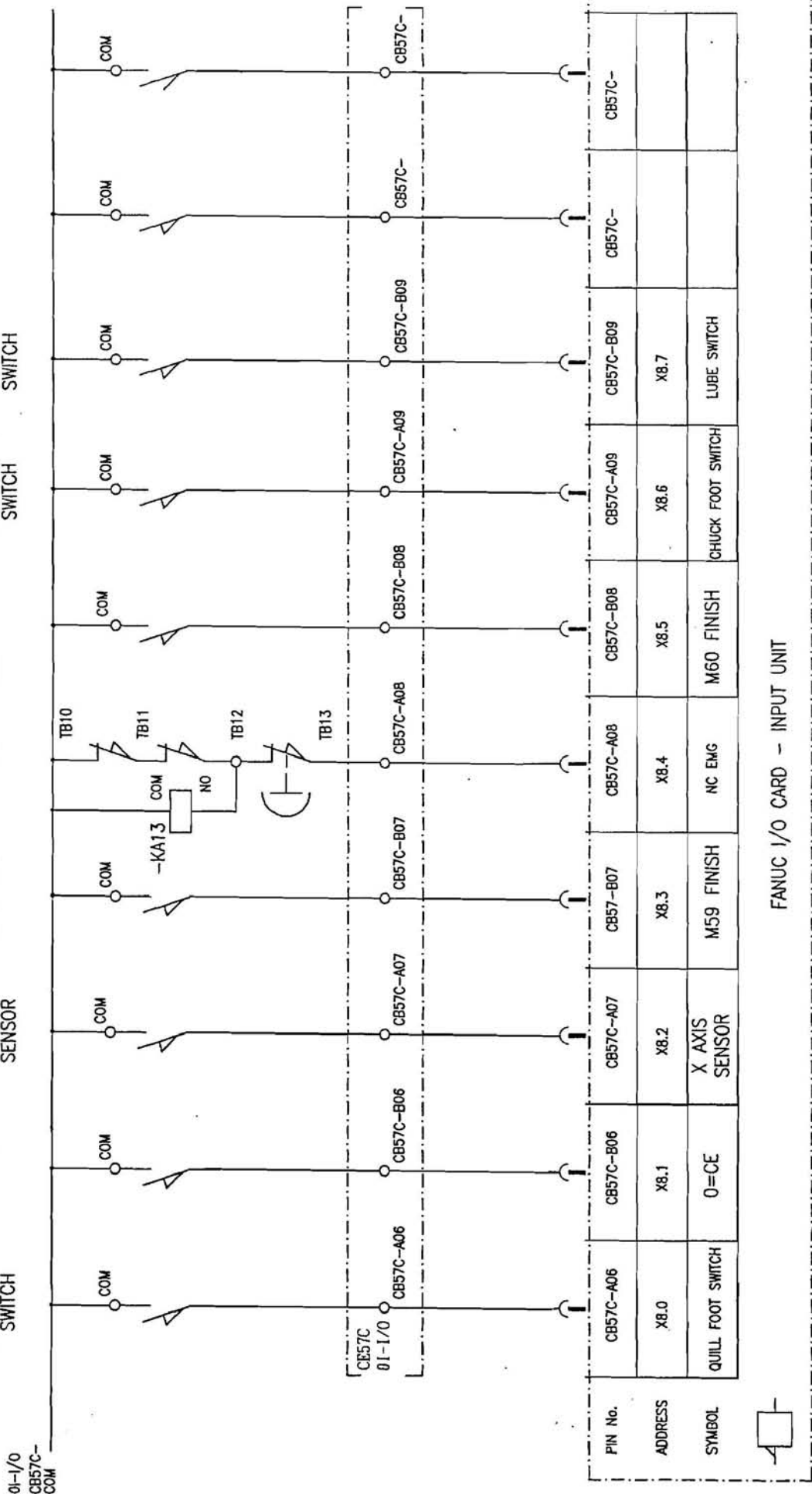
M59解除
M59 FINISH

緊急停止
NC EMG

M60解除
M60 FINISH

夾頭腳踏開關
CHUCK FOOT SWITCH

潤滑油壓力
LUBE SWITCH



FANUC I/O CARD - INPUT UNIT



DESCRIPTION

MACHINE INPUT

FILE NO.

IN X8.0-X8.7

PAGE

IN 5/6

X軸原點開關
X AXIS
HOME
LIMIT SWITCH

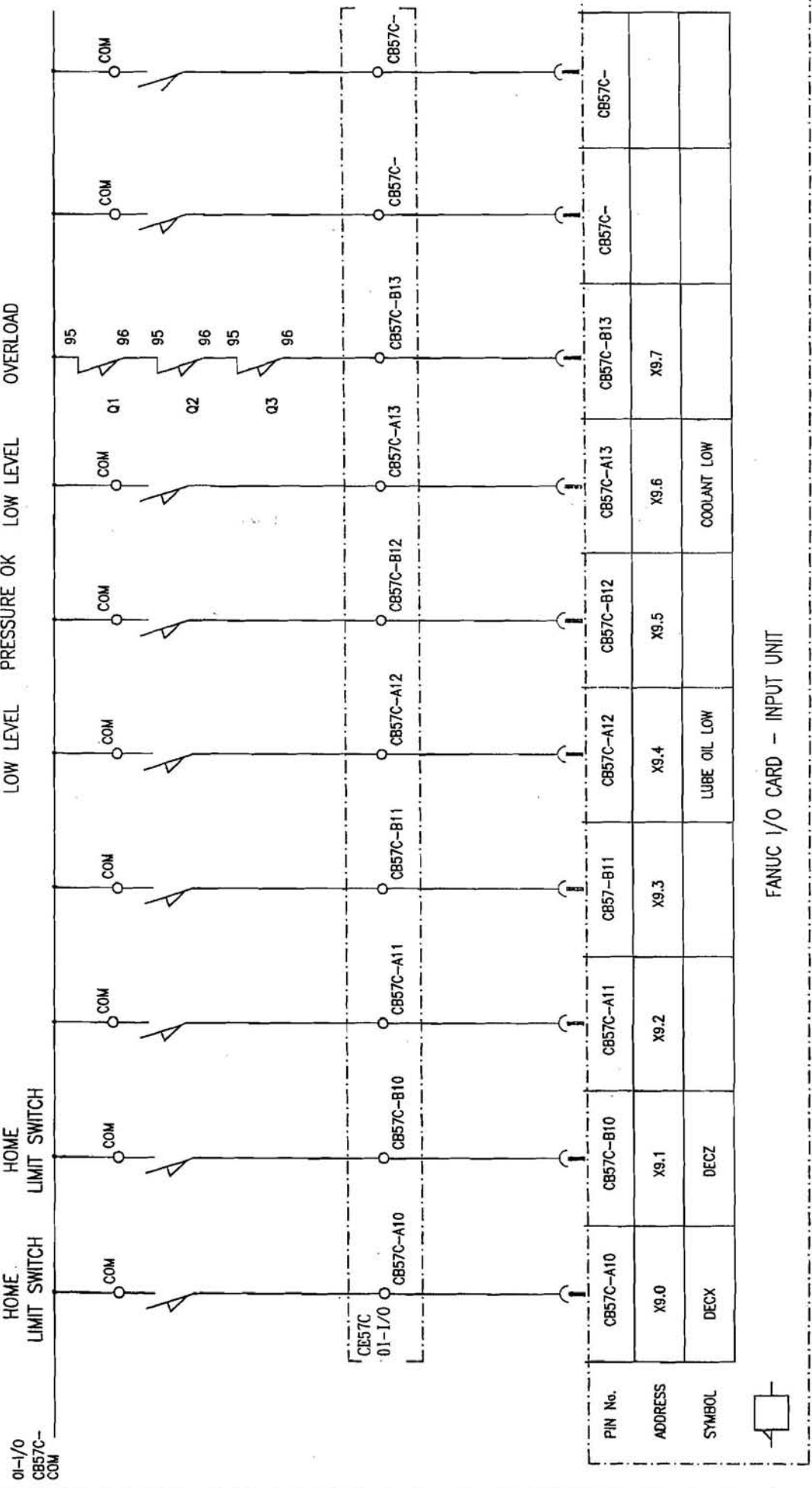
Z軸原點開關
Z AXIS
HOME
LIMIT SWITCH

潤滑油低油位
LUBE OIL
LOW LEVEL

油壓箱壓力
HYDRAULIC
PRESSURE OK

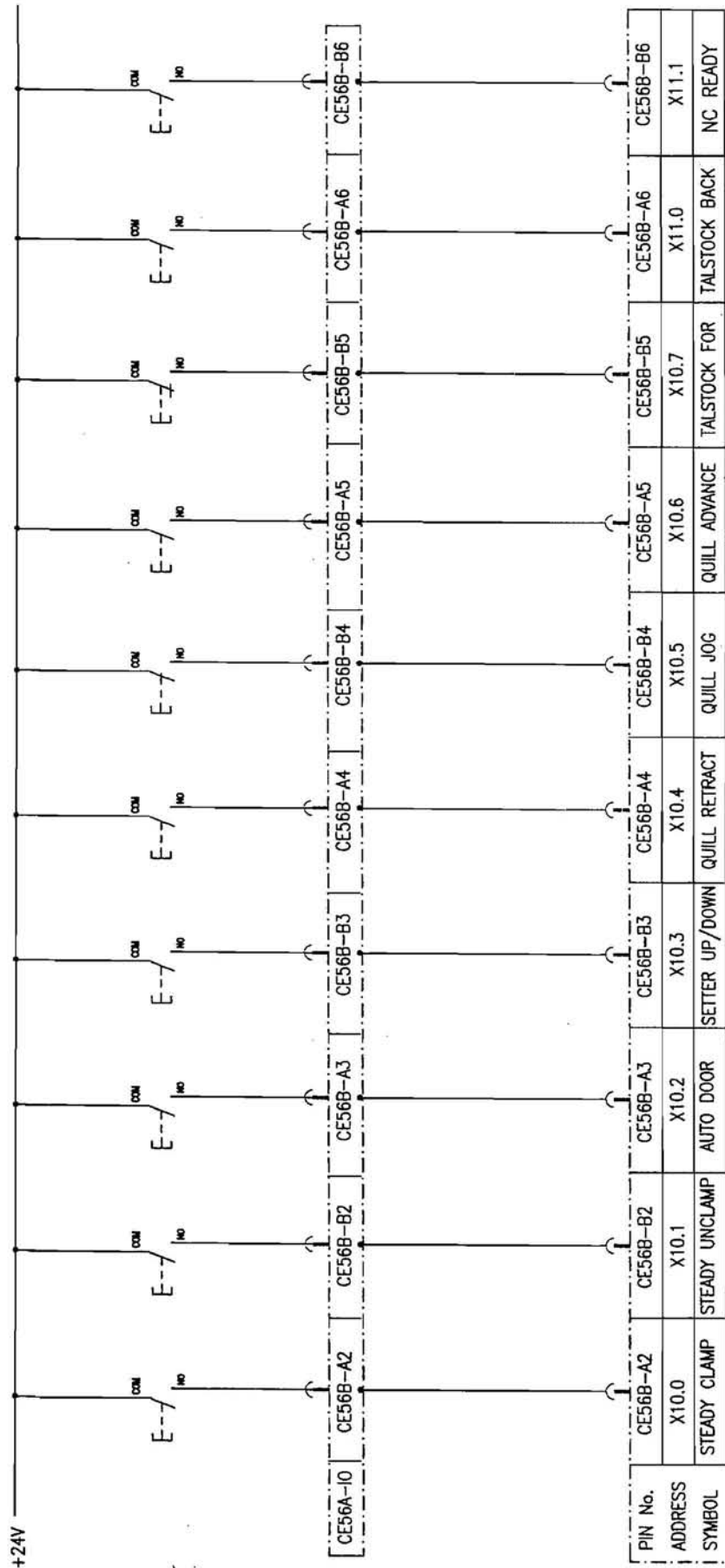
切消水低水位
COOLANT
LOW LEVEL

馬達過負載
AUX MOTOR
OVERLOAD



FANUC I/O CARD - INPUT UNIT

中心架夾
STEADY CLAMP
 中心架鬆
STEADY UNCLAMP
 自動門開/關
AUTO DOOR OPEN/CLOSE
 偵測臂上/下
SETTER UP/DOWN
 心軸前進
QUILL RETRACT
 心軸前進
QUILL JOG
 心軸退回
QUILL ADVANCE
 尾座前進
TALSTOCK FORWARD
 尾座退回
TALSTOCK BACKWARD
 伺服器開通
NC READY



FANUC OM I/O CARD -- INPUT UNIT

PIN No.	CE56B-A2	CE56B-B2	CE56B-A3	CE56B-B3	CE56B-A4	CE56B-B4	CE56B-A5	CE56B-B5	CE56B-A6	CE56B-B6
ADDRESS	X10.0	X10.1	X10.2	X10.3	X10.4	X10.5	X10.6	X10.7	X11.0	X11.1
SYMBOL	STEADY CLAMP	STEADY UNCLAMP	AUTO DOOR	SETTER UP/DOWN	QUILL RETRACT	QUILL JOG	QUILL ADVANCE	TALSTOCK FOR	TALSTOCK BACK	NC READY

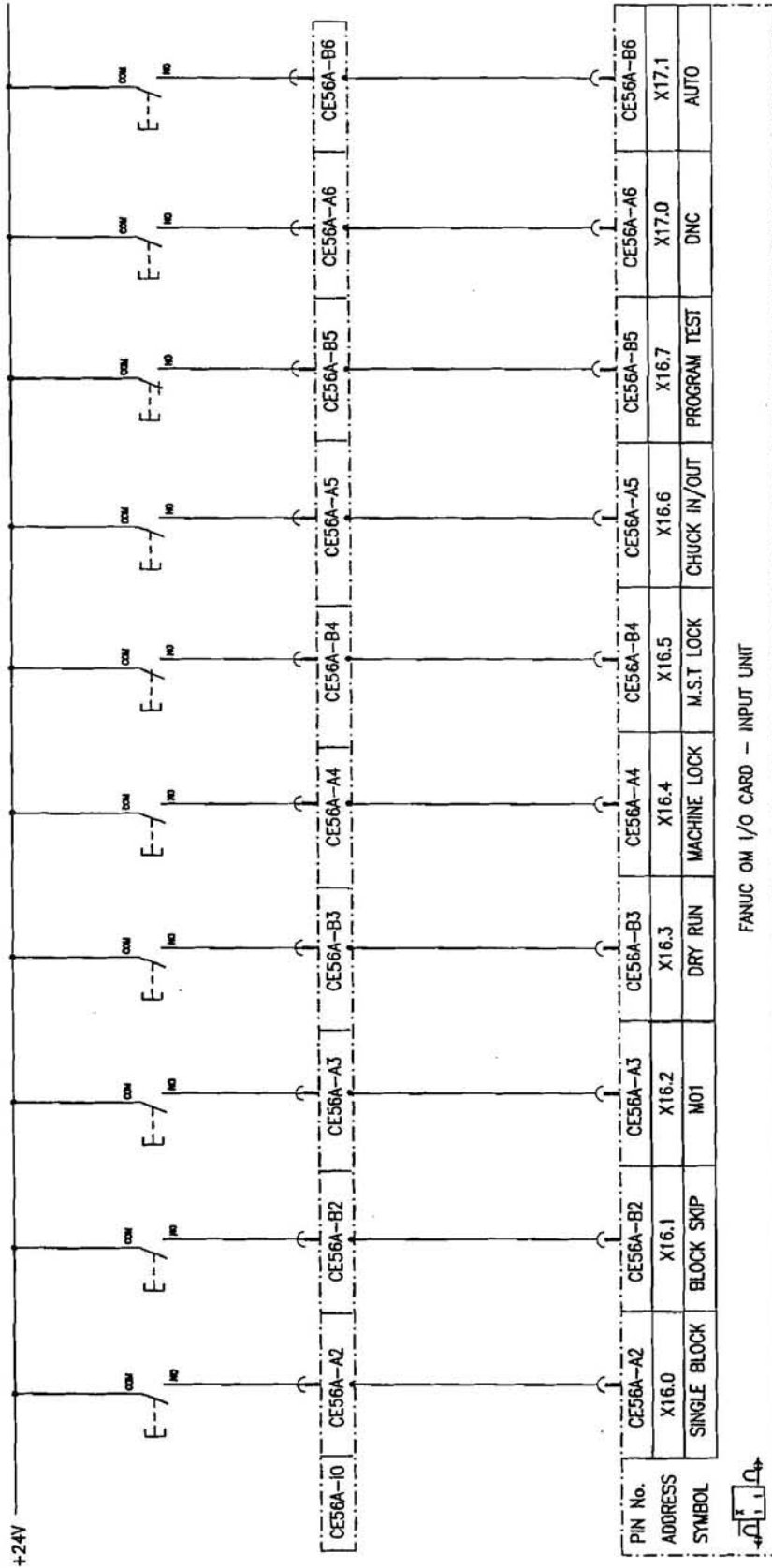


DESCRIPTION
OPERATOR PANEL IN

FILE NO.
BUTTON X10.0-X11.1

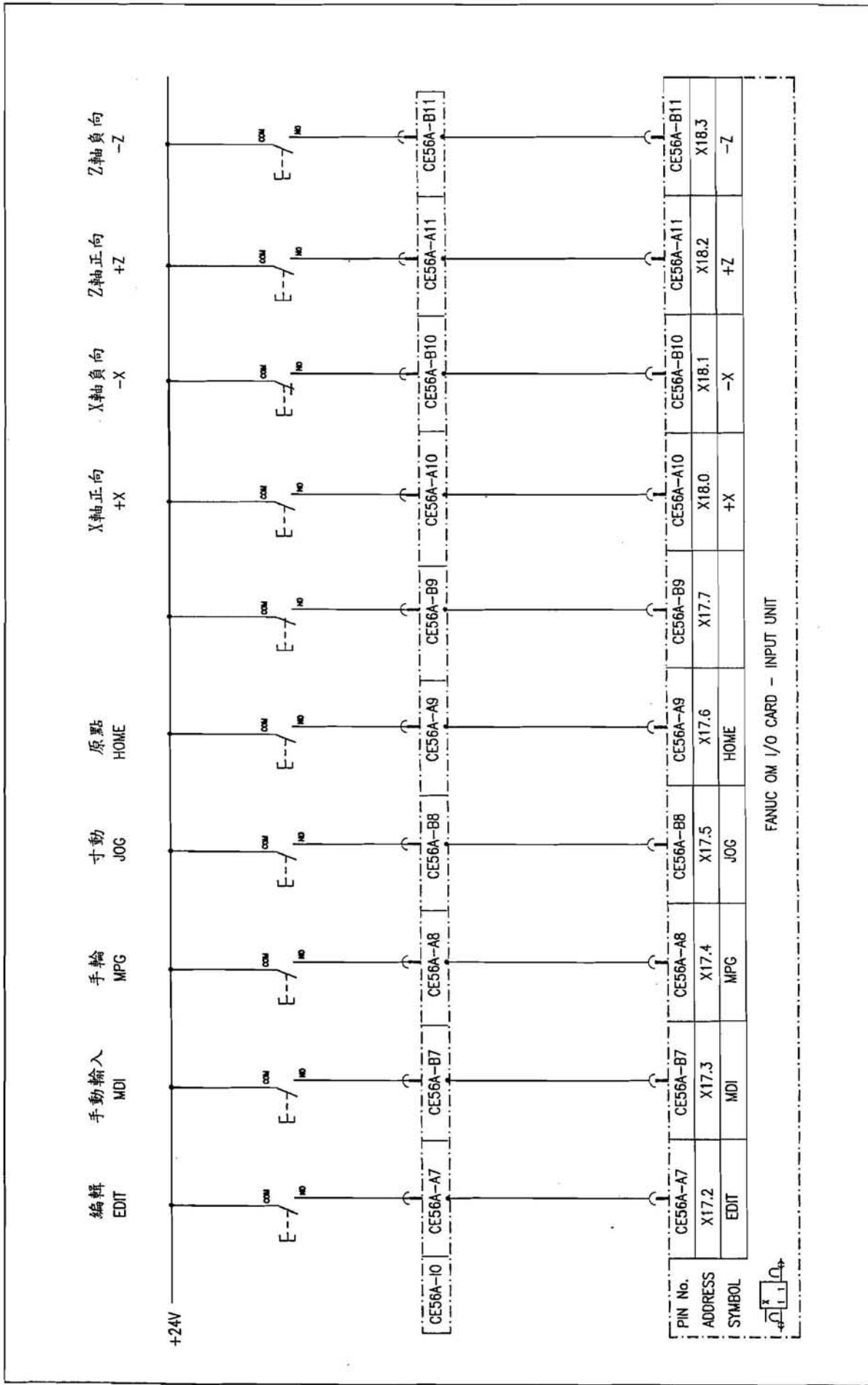
PAGE
IN 1/7

單節 SINGLE BLOCK
 單節跳躍 BLOCK SKIP
 選擇性停止 OPTION STOP
 空跑 DRY RUN
 機械鎖住 MACHINE LOCK
 M.S.T鎖住 M.S.T LOCK
 夾頭內外 CHUCK IN/OUT
 程式編輯 PROGRAM TEST
 透傳遠做 DNC
 自動 AUTO



OPERATOR PANEL IN	DESCRIPTION	FILE NO.	PAGE
		BUTTON X16.0-X17.1	IN 2/7



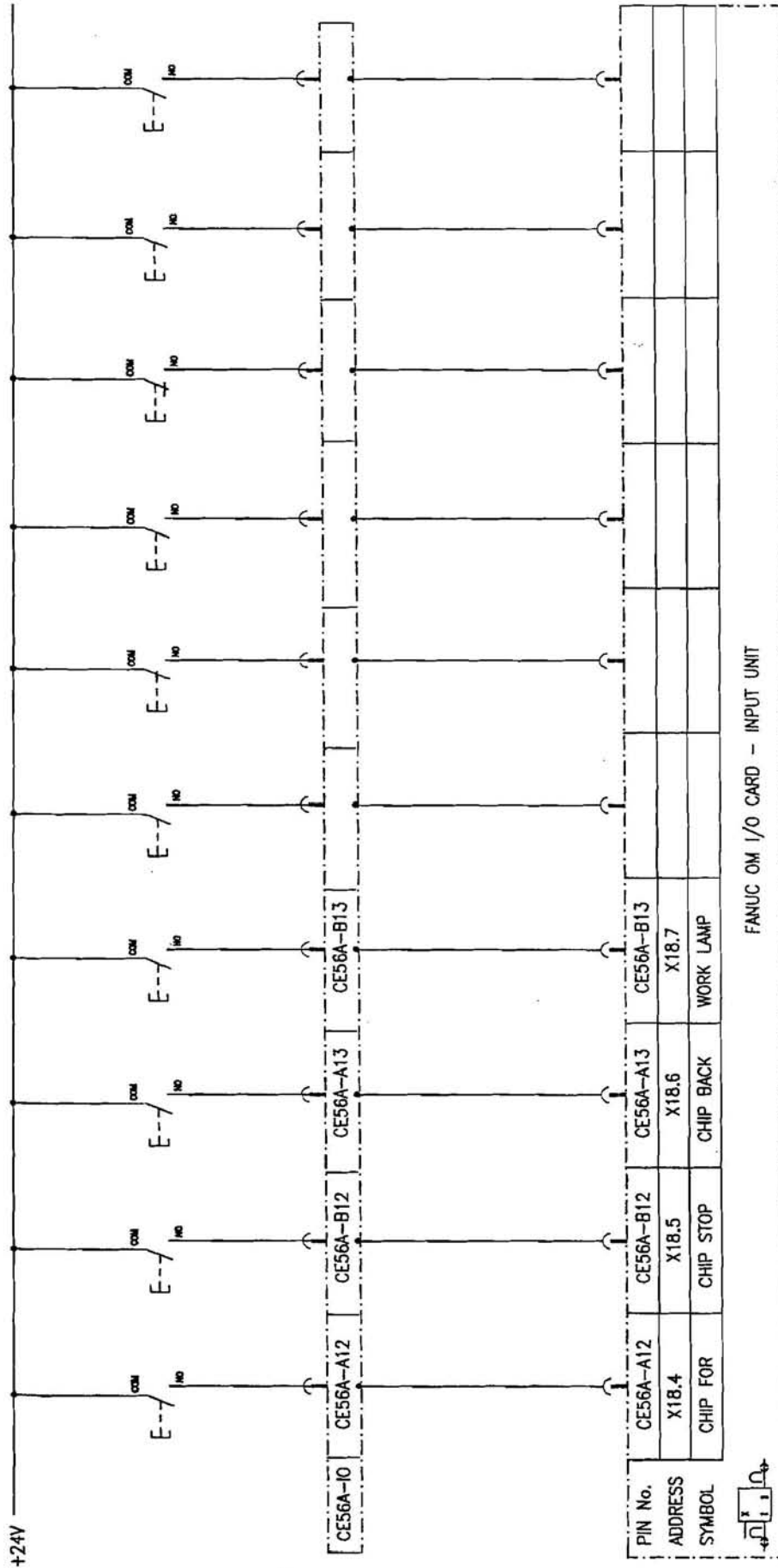


PIN No.	CE56A-A7	CE56A-B7	CE56A-A8	CE56A-B8	CE56A-A9	CE56A-B9	CE56A-A10	CE56A-B10	CE56A-A11	CE56A-B11
ADDRESS	X17.2	X17.3	X17.4	X17.5	X17.6	X17.7	X18.0	X18.1	X18.2	X18.3
SYMBOL	EDIT	MDI	MPG	JOG	HOME		+X	-X	+Z	-Z

FANUC OM I/O CARD - INPUT UNIT

	DESCRIPTION	FILE NO.	PAGE
	OPERTOR PANEL IN	BUTTON X17.2-X18.3	IN 3/7

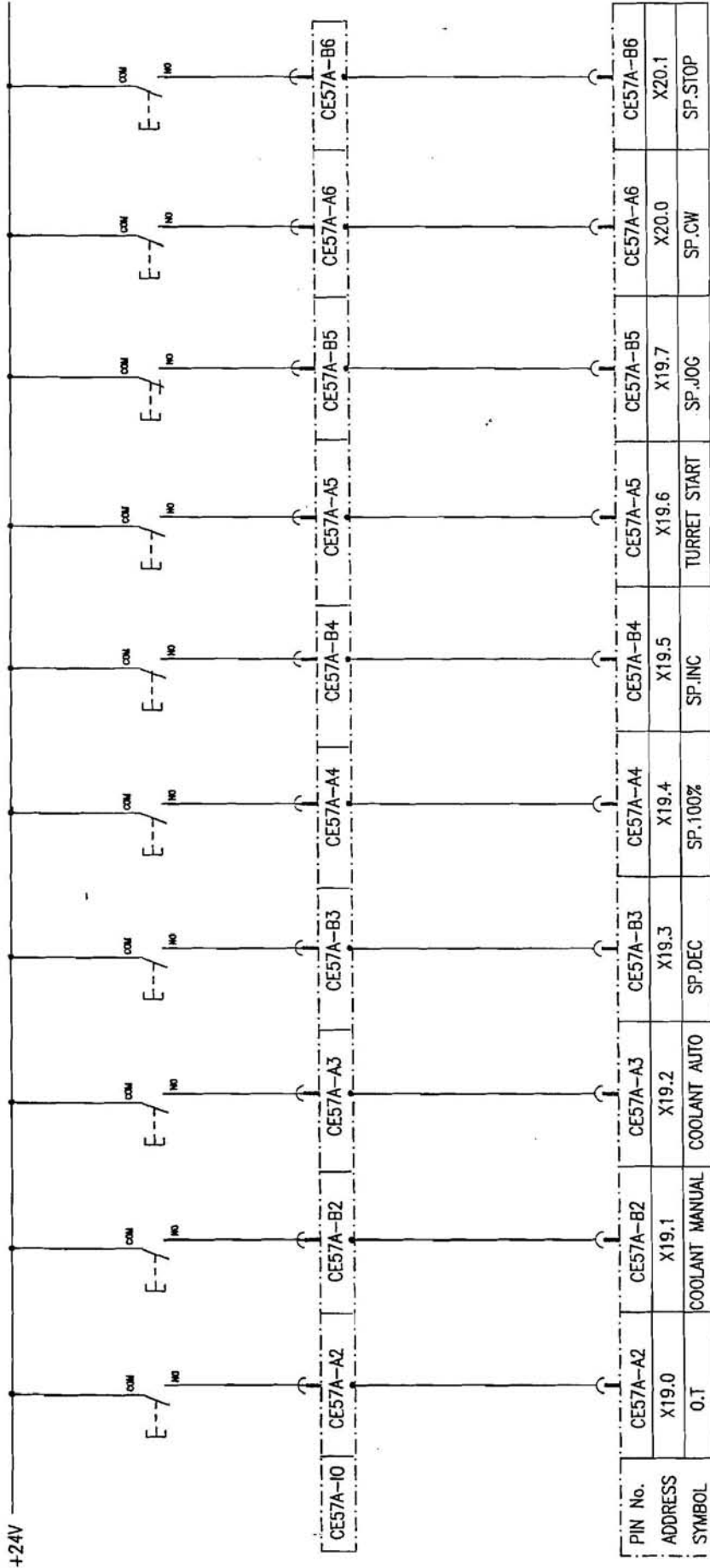
排割機正轉 排割機停止 排割機反轉 工作燈
 CHIP FOR CHIP STOP CHIP BACK WORK LAMP



FANUC OM I/O CARD - INPUT UNIT

MOORE	DESCRIPTION	FILE NO.	PAGE
	OPERTOR PANEL IN	BUTTON X18.4-X18.7	IN 4/7

過行程解除 O.T
 切消液手動 COOLANT MANUAL
 切消液自動 COOLANT AUTO
 主軸減速 SP.DEC
 主軸100% SP.100%
 主軸增速 SP.INC
 換刀起動 TURRET START
 主軸寸動 SP.JOG
 主軸正轉 SP.CW
 主軸停止 SP.STOP



FANUC OM I/O CARD - INPUT UNIT



DESCRIPTION

OPERTOR PANEL IN

FILE NO.

BUTTON X19.0-X20.1

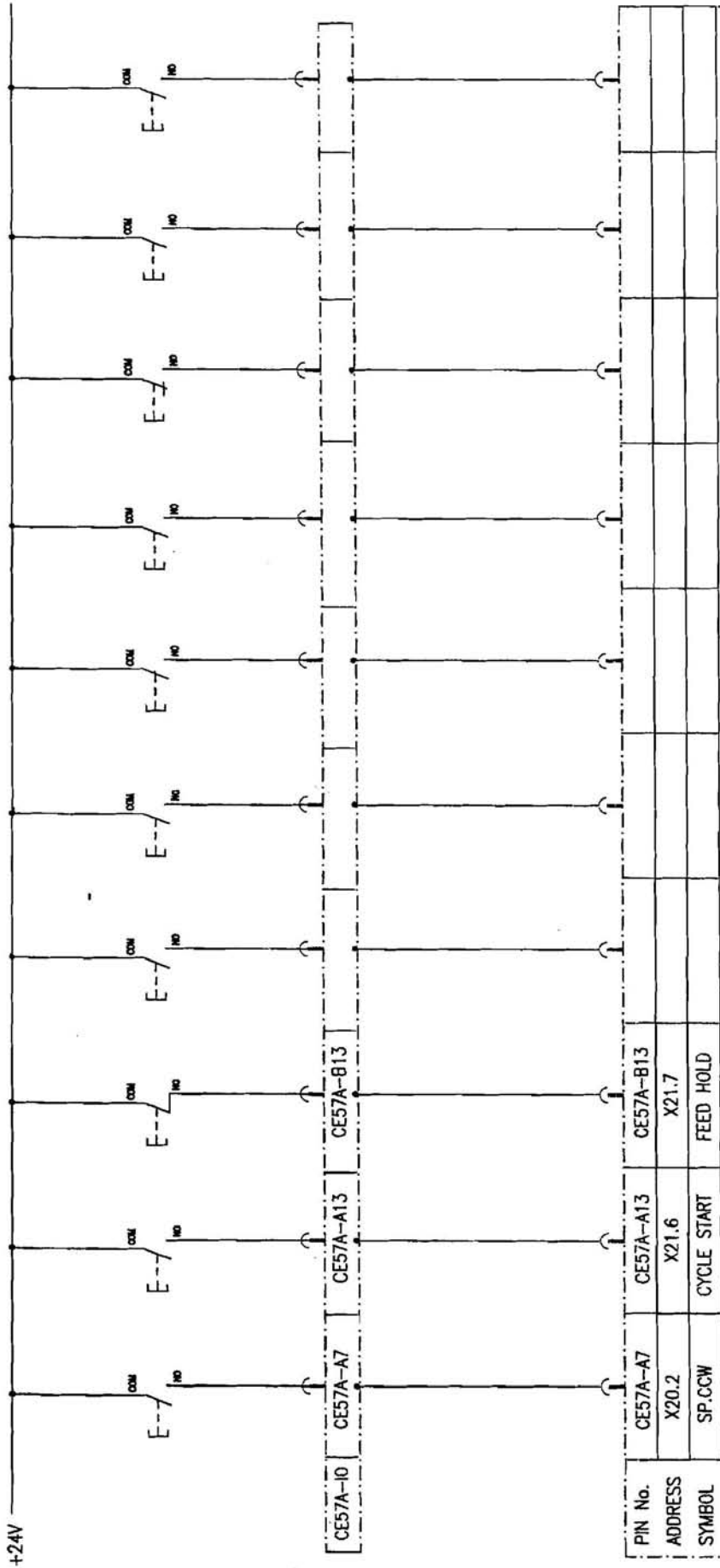
PAGE

IN 5/7

主軸反轉
SP.CCW

程式啟動
CYCLE START

程式暫停
FEED HOLD



FANUC OM I/O CARD - INPUT UNIT



DESCRIPTION
OPERTOR PANEL IN

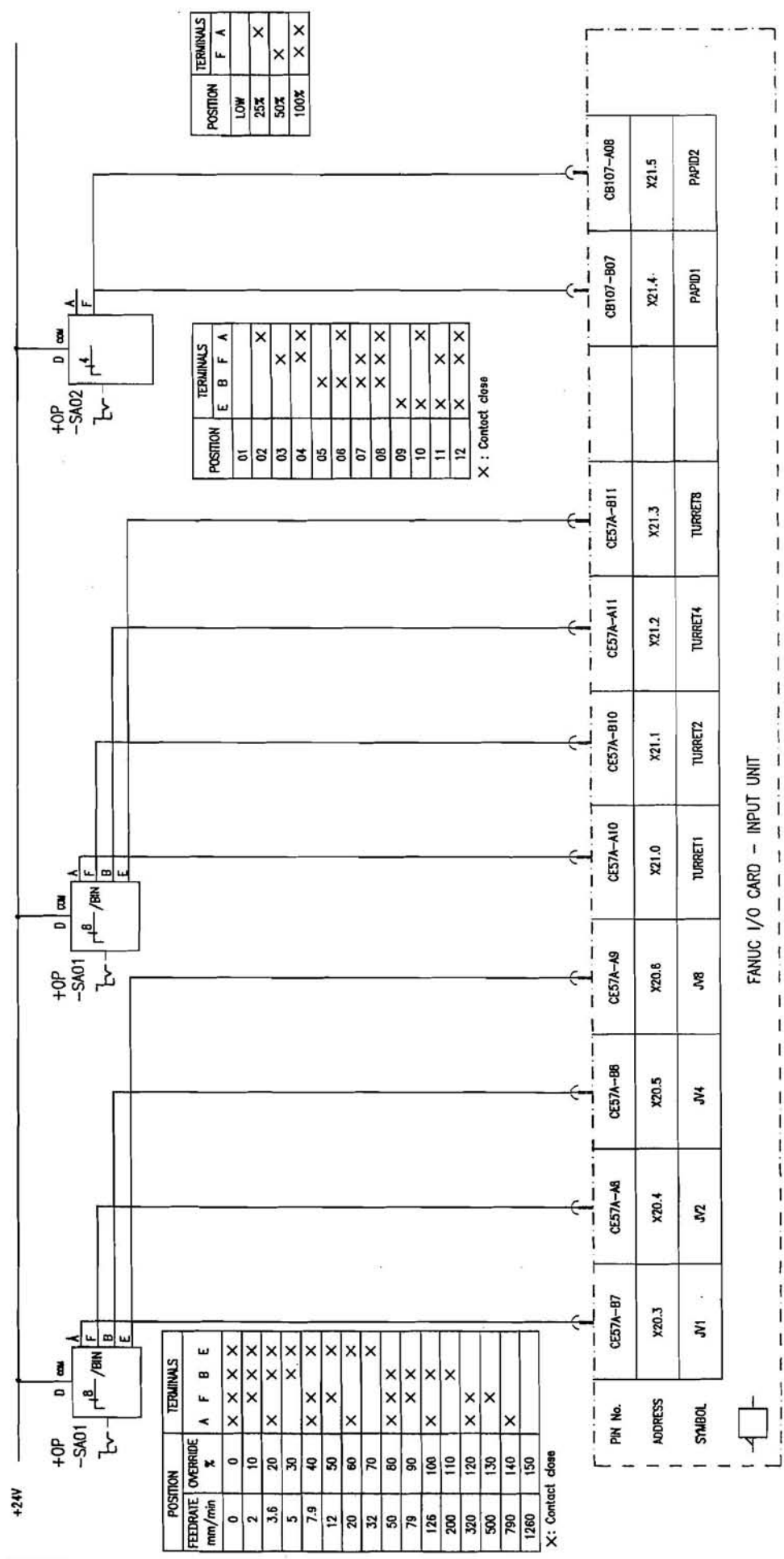
FILE NO.
BUTTON X20.2-X21.7

PAGE
IN 6/7

切削進給率
Feedrate override %

刀具號碼
TOOL NUMBER

快速進給率
RAPID OVERRIDE



POSITION	TERMINALS			
	A	F	B	E
0	X	X	X	X
2	X	X	X	X
3.6	X	X	X	X
5	X	X	X	X
7.5	X	X	X	X
12	X	X	X	X
20	X	X	X	X
32	X	X	X	X
50	X	X	X	X
79	X	X	X	X
126	X	X	X	X
200	X	X	X	X
320	X	X	X	X
500	X	X	X	X
790	X	X	X	X
1260	X	X	X	X

POSITION	TERMINALS			
	E	B	F	A
01				
02			X	
03			X	
04			X	X
05			X	X
06			X	X
07			X	X
08			X	X
09			X	X
10			X	X
11			X	X
12			X	X

POSITION	TERMINALS	
	F	A
LOW		X
25%		X
50%		X
100%		X

PIN No.	CE57A-B7	CE57A-A8	CE57A-B8	CE57A-A9	CE57A-A10	CE57A-B10	CE57A-A11	CE57A-B11	CB107-B07	CB107-A08
ADDRESS	X20.3	X20.4	X20.5	X20.6	X21.0	X21.1	X21.2	X21.3	X21.4	X21.5
SYMBOL	JV1	JV2	JV4	JV8	TURRET1	TURRET2	TURRET4	TURRET8	PAPID1	PAPID2

FANUC I/O CARD - INPUT UNIT



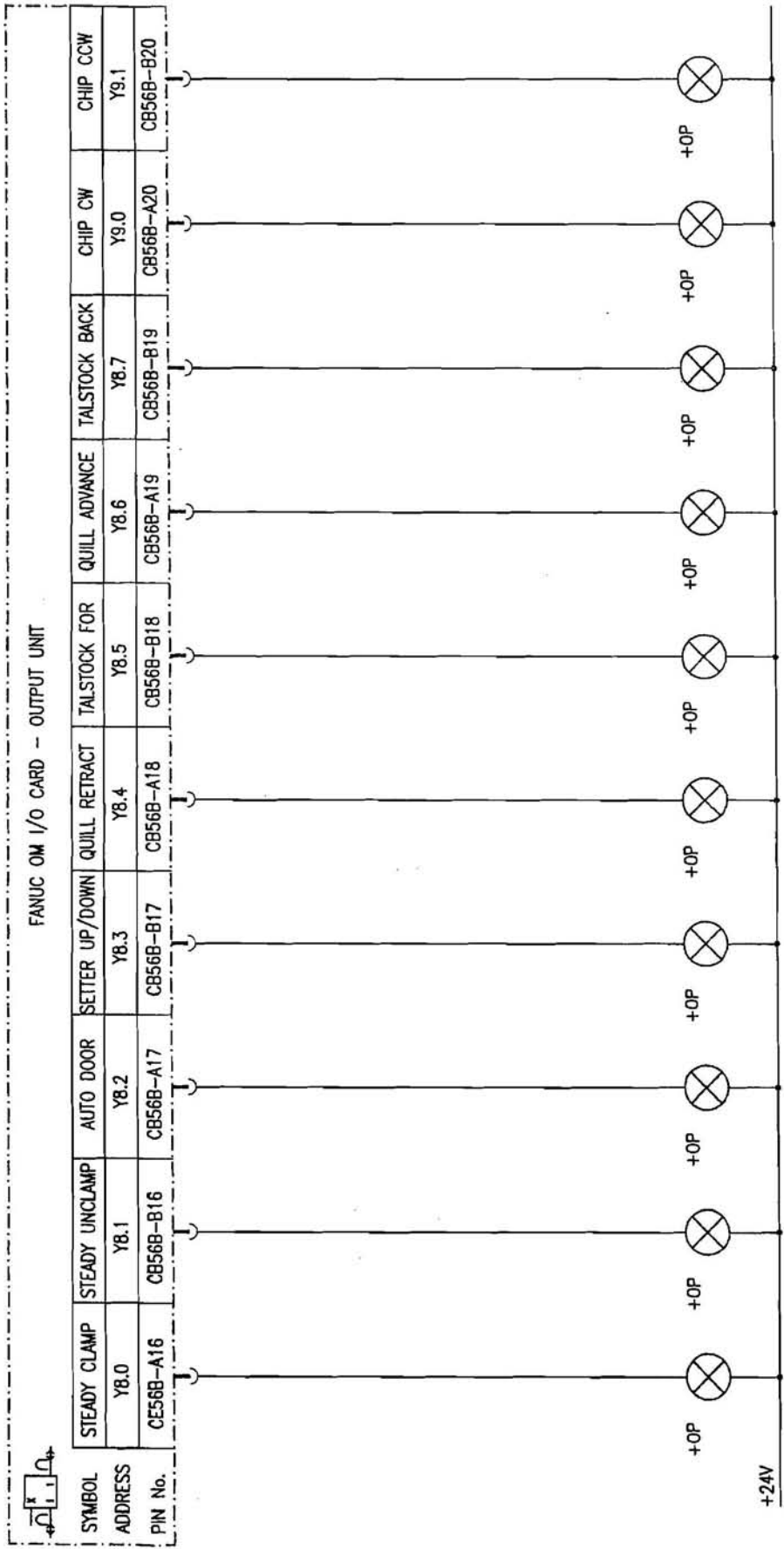
DESCRIPTION
OPERATOR PANEL IN

FILE NO.
BUTTON X20.3-X21.5

PAGE
IN 7/7

7-26

FANUC OM I/O CARD - OUTPUT UNIT



+24V	STEADY CLAMP	STEADY UNCLAMP	AUTO DOOR OPEN/CLOSE	SETTER UP/DOWN	QUILL RETRACT	TALSTOCK FORWARD	QUILL ADVANCE	TALSTOCK BACKWARD	CHIP CW	CHIP CCW
	中心架夾	中心架鬆	自動門開/關	偵測臂上/下	心軸前進	尾座前進	心軸後退	尾座後退	排削機正轉	排削機反轉



DESCRIPTION
OPERATOR PANEL OUT

FILE NO.
LED Y8.0-Y9.1

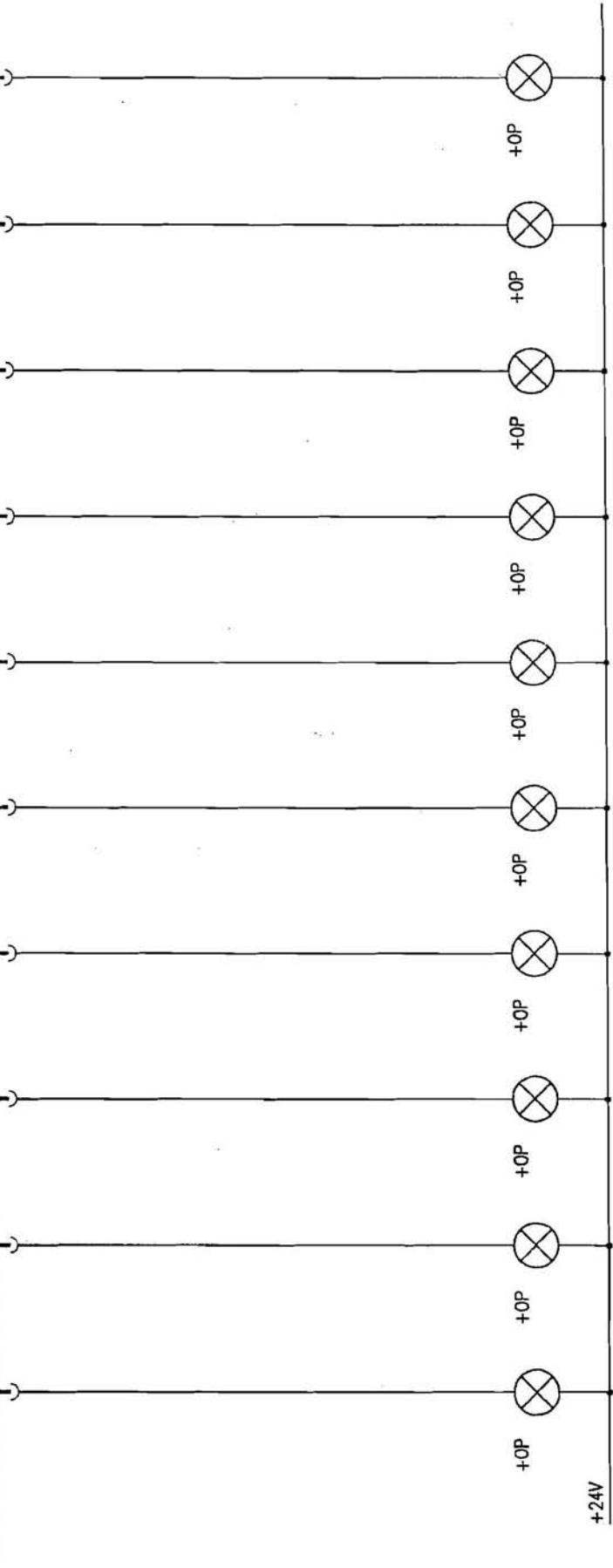
PAGE
OUT 1/5

7-27

FANUC OM I/O CARD - OUTPUT UNIT



SYMBOL ADDRESS	MACHINE LOCK	M. S. T LOCK	CYCLE START	FEED HOLD	DNC	AUTO	EDIT	MDI	MPG	JOG
Y16.4	Y16.5	Y16.6	Y16.7	Y17.0	Y17.1	Y17.2	Y17.3	Y17.4	Y17.5	
CE56A-A18	CB56A-B18	CB56A-A19	CB56A-B19	CB56A-A20	CB56A-B20	CB56A-A21	CB56A-B21	CB56A-A22	CB56A-B22	



機械鎖住 M. S. T鎖住 程式啟動 程式暫停 邊傳邊做 自動 編輯 手動輸入 手輪 寸動



DESCRIPTION
OPERATOR PANEL OUT

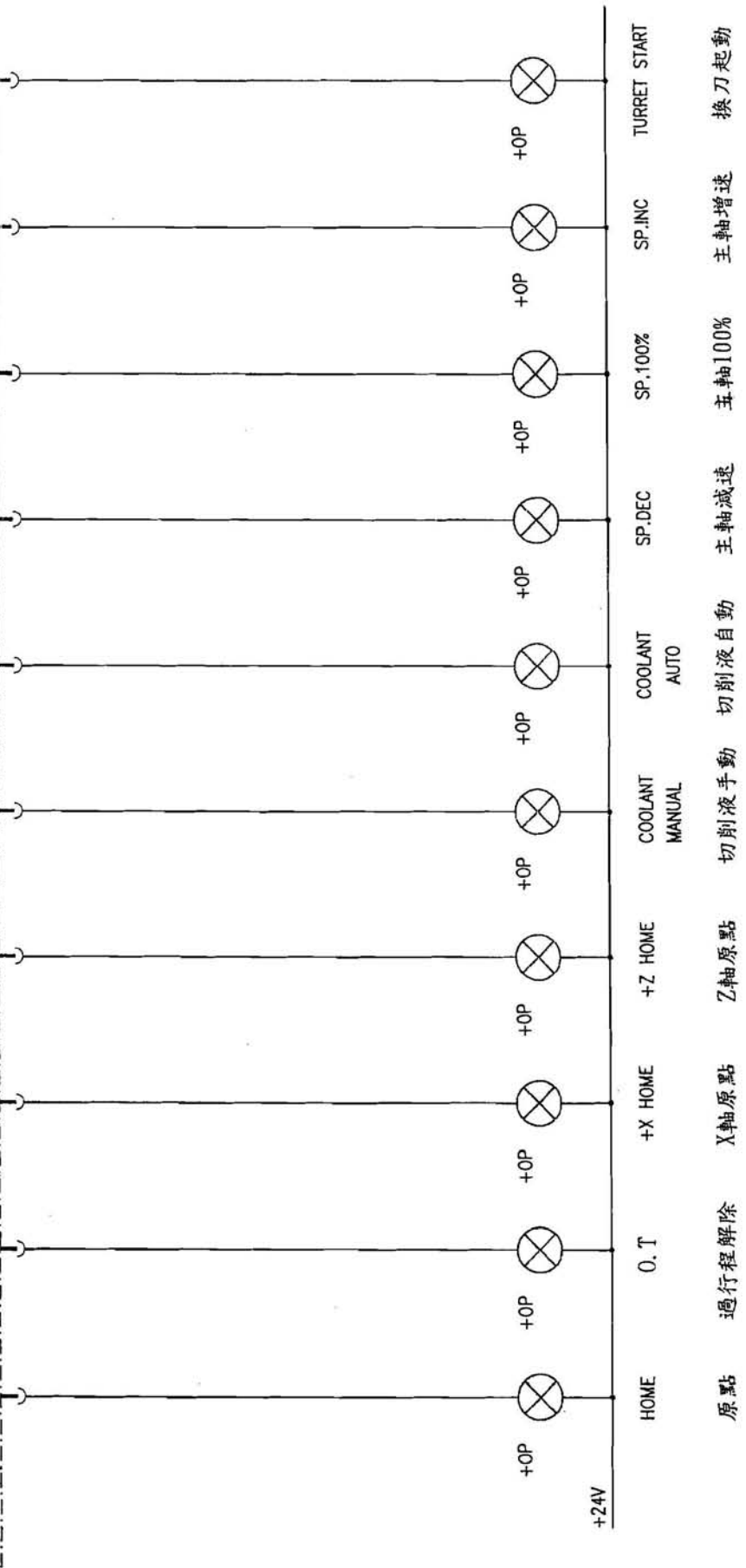
FILE NO.
LED Y16.4-Y17.5

PAGE
OUT 3/5

7-29

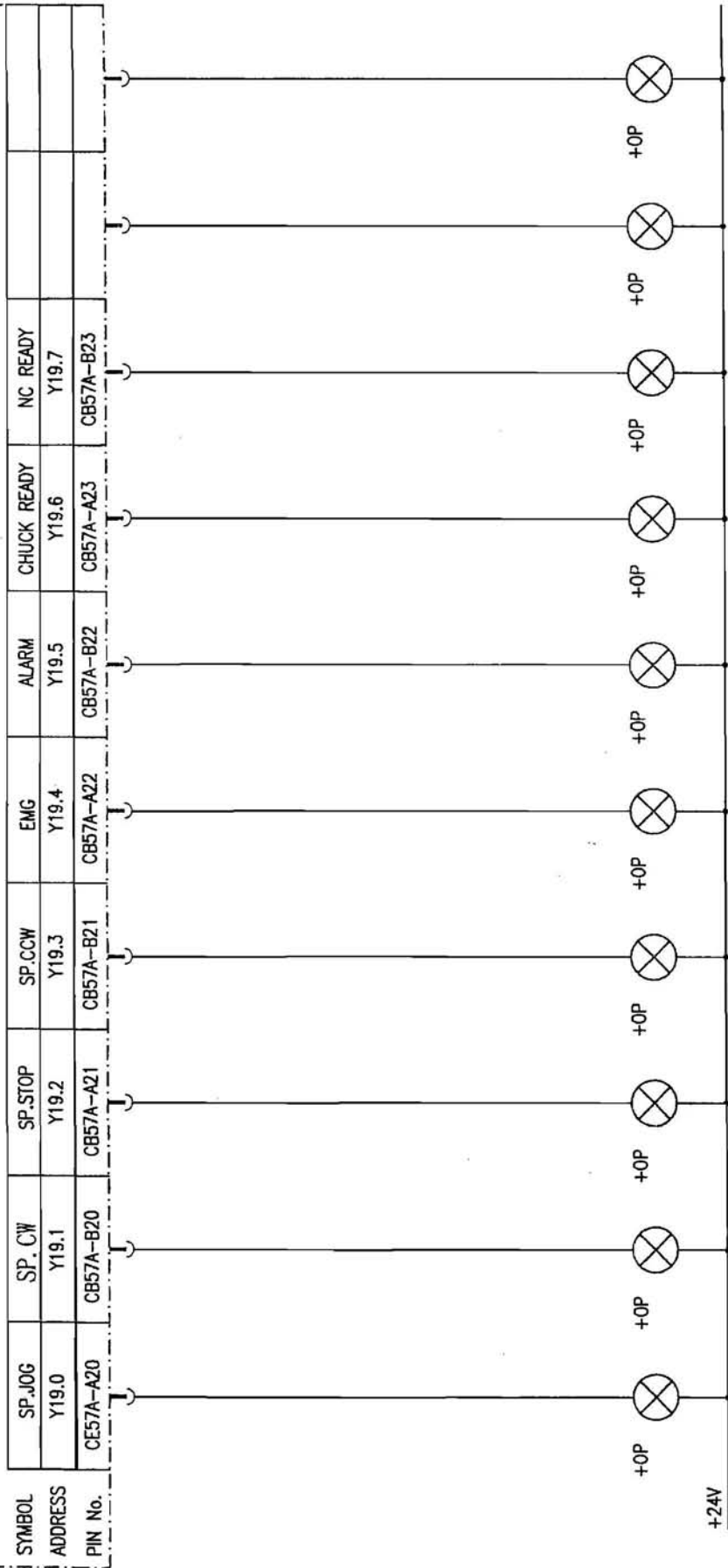
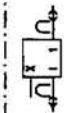
FANUC OM I/O CARD - OUTPUT UNIT

SYMBOL ADDRESS	HOME Y17.6	O. T. Y17.7	+X HOME Y18.0	+Z HOME Y18.1	COOLANT MANUAL Y18.2	COOLANT AUTO Y18.3	SP.DEC Y18.4	CP.100% Y18.5	CP.INC Y18.6	TURRET START Y18.7
PIN No.	CE56A-A23	CB56A-B23	CB57A-A16	CB57A-B16	CB57A-A17	CB57A-B17	CB57A-A18	CB57A-B18	CB57A-A19	CB57A-B19



DESCRIPTION
OPERATOR PANEL OUT

FANUC OM I/O CARD - OUTPUT UNIT



主軸寸動 主軸正轉 主軸反轉 緊急異常 異常 夾頭夾緊 控制器開通



DESCRIPTION
OPERATOR PANEL OUT

FILE NO. LED Y19.0-Y19.7
PAGE OUT 5/5

