

**MTC-25 LT-42/52/65
TECHNICAL FILE FOR
MACHINERY**

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Part J

Electrical Diagram

LATHE SERIES

Manufacturer (company)	Buffalo Machinery co., LTD
Drawing No.	L00-0091-100
Control Unit	FAGOR 8055i/A, 8055i PLUS
Version	100



Title page / cover sheet

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Date	2013.05.17			Total	169
Editor	Vincent				

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
























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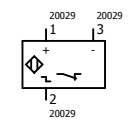
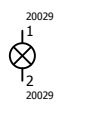
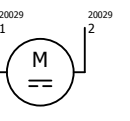
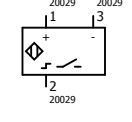
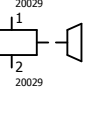
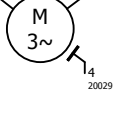
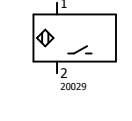

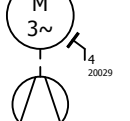
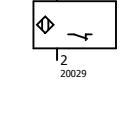
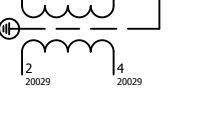
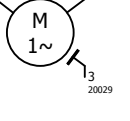
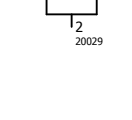
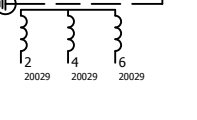
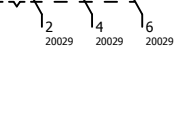
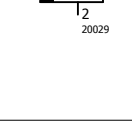
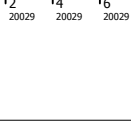
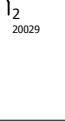
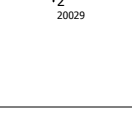
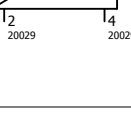
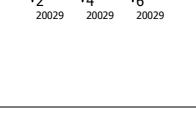

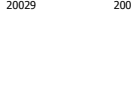

Symbol overview

F25_001

<p>K NO contact without cross-reference</p> <p>NO auxiliary contact</p> 	<p>SM Limit switch, NO contact, mechanically operated</p> <p>Limit switch, NO contact</p> 	<p>BSSW Float switch, NO contact</p> <p>Switch, NO contact</p> 
<p>K NC contact without cross-reference</p> <p>NC contact</p> 	<p>SM Limit switch, NC contact, mechanically operated</p> <p>Limit switch, NC contact</p> 	<p>BOSW Float switch, NCcontact</p> <p>Switch, NC contact</p> 
<p>KT Normally open with time delay closing (T.C.)</p> <p>NO contact, opens with time delay</p> 	<p>SB Switch, NO contact, operated by pushing</p> <p>Pushbutton, NO contact</p> 	<p>SB Emergency stop switch / Emergency stop pushbutton, NO contact</p> <p>Pushbutton, NO contact</p> 
<p>KT Normally closed with time delay opening (T.O.)</p> <p>NC contact, closes with time delay</p> 	<p>SB Switch, NC contact, operated by pushing</p> <p>Switch, NC contact</p> 	<p>SB Emergency stop switch / Emergency stop pushbutton, NC contact</p> <p>Pushbutton, NC contact</p> 
<p>SB Pushbutton, NO contact, operated by pushing</p> <p>Pushbutton, NO contact</p> 	<p>SSSR Switch, NO contact, operated by key</p> <p>Switch, NO contact</p> 	<p>FT NO contact with automatic thermal actuation</p> <p>Switch, NO contact</p> 
<p>SB Pushbutton, NC contact, operated by pushing</p> <p>Pushbutton, NC contact</p> 	<p>SOSR Switch, NC contact, operated by key</p> <p>Switch, NC contact</p> 	<p>FT NC contact with automatic thermal actuation</p> <p>Switch, NC contact</p> 
<p>SSRR Switch, NO contact, operated by turning</p> <p>Switch, NO contact</p> 	<p>SP Pressure switch, NO contact</p> <p>Switch, NO contact</p> 	<p>SSF Pushbutton, NO contact, pedal-operated</p> <p>Pushbutton, NO contact</p> 
<p>SORR Switch, NC contact, operated by turning</p> <p>Switch, NC contact</p> 	<p>SP Pressure switch, NC contact</p> <p>Switch, NC contact</p> 	<p>SOF Pushbutton, NC contact, pedal-operated</p> <p>Pushbutton, NC contact</p> 

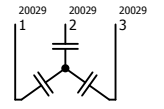

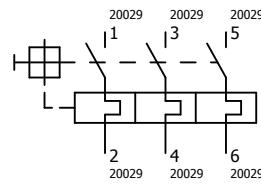
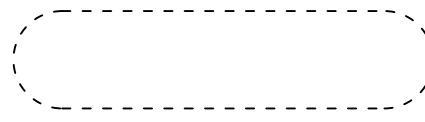
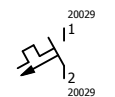

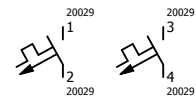

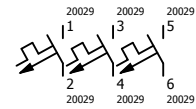

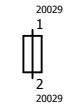

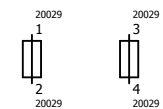
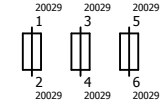
Symbol overview

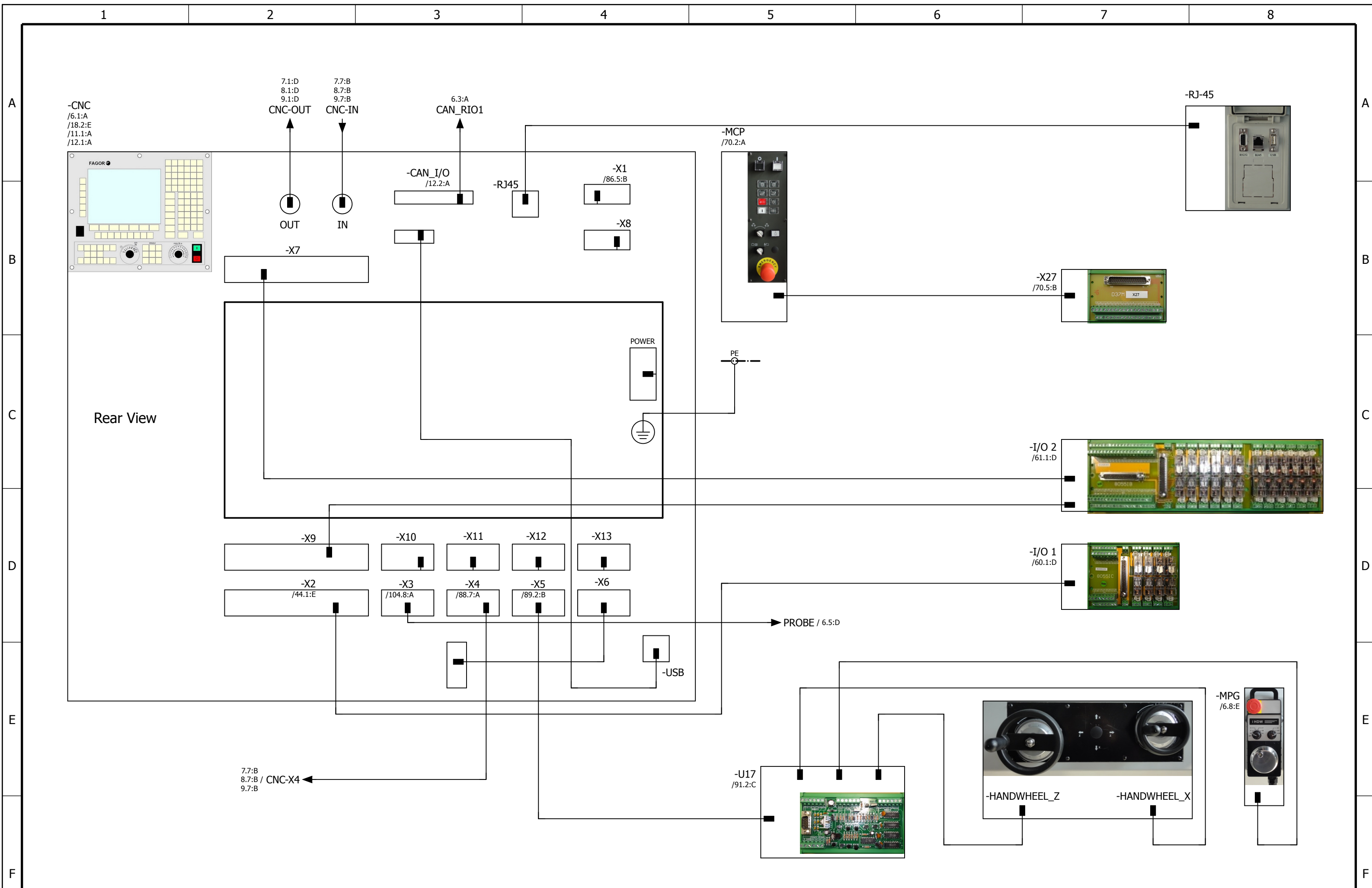
F25_001

<p>SK Proximity sensor, NC contact Proximity switch, NC contact with power supply</p> 	<p>H Lamp / indicator light, general Lamp, single</p> 	<p>M DC motor, general Single-coil motor without PE</p> 
<p>SK Proximity sensor, NO contact Proximity switch, NO contact with power supply</p> 	<p>YB Solenoid brake Brake, single</p> 	<p>M Three-phase asynchronous motor, one rotation speed Three-phase motor</p> 
<p>SK Proximity sensor, NO contact Proximity switch, NO contact</p> 	<p>D Semiconductor diode, general Semiconductors, 2 connection points</p> 	<p>M_fan Three-phase motor for ventilating fan Three-phase motor</p> 
<p>SK Proximity sensor, NC contact Proximity switch, NC contact</p> 	<p>TR Single-phase transformer with two windings and shield Transformer, 5 connection points with PE</p> 	<p>M AC motor AC motor with PE</p> 
<p>K Electromechanical operating device, general / relay coil, general Coil</p> 	<p>TR Three-phase transformer, wye-wye connection Transformer, 7 connection points with PE</p> 	<p>78 Q1 Switch, three-pole, NO contact, operated by turning Switch, triple NO contact</p> 
<p>KT Electromechanical operating device with off-delay Coil with drop-out delay</p> 	<p>L Inductor with magnetic core, three-phase Inductor, variable</p> 	<p>KM Power NO contact of a contactor Power NO contact</p> 
<p>Y Solenoid valve, general Valve, single</p> 	<p>G Rectifier, bridge, 2-phase, secondary %1 connection points Rectifier, variable</p> 	<p>FT Electromechanical device of a thermal relay, three-pole Thermal release (bimetal relay)</p> 
<p>HLED Light-emitting diode (LED), general Lamp, single</p> 	<p>GL Rectifier in bridge circuit Rectifier, variable</p> 	<p>H Alarm / bell Signal device, acoustic, single</p> 

Symbol overview

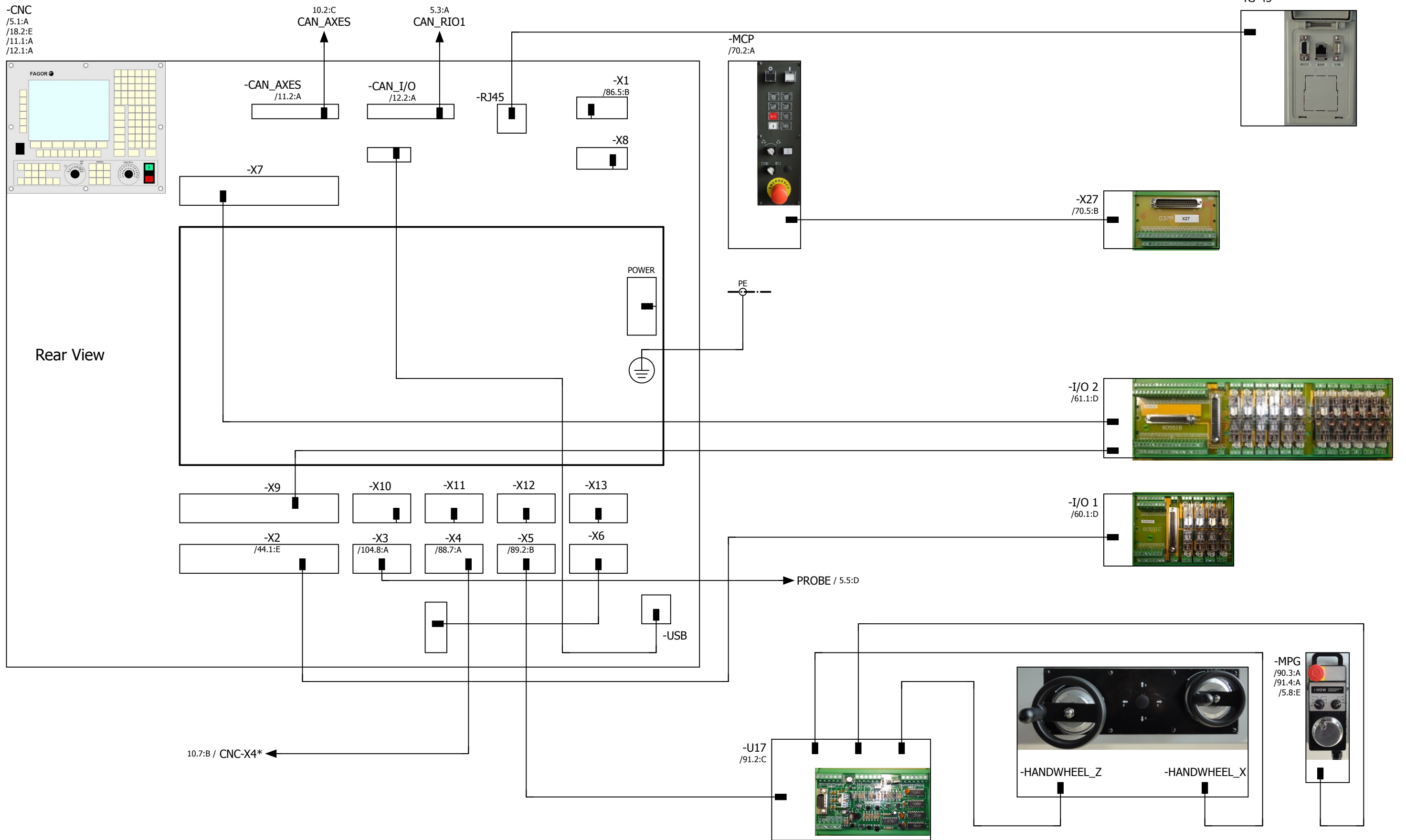
F25_001

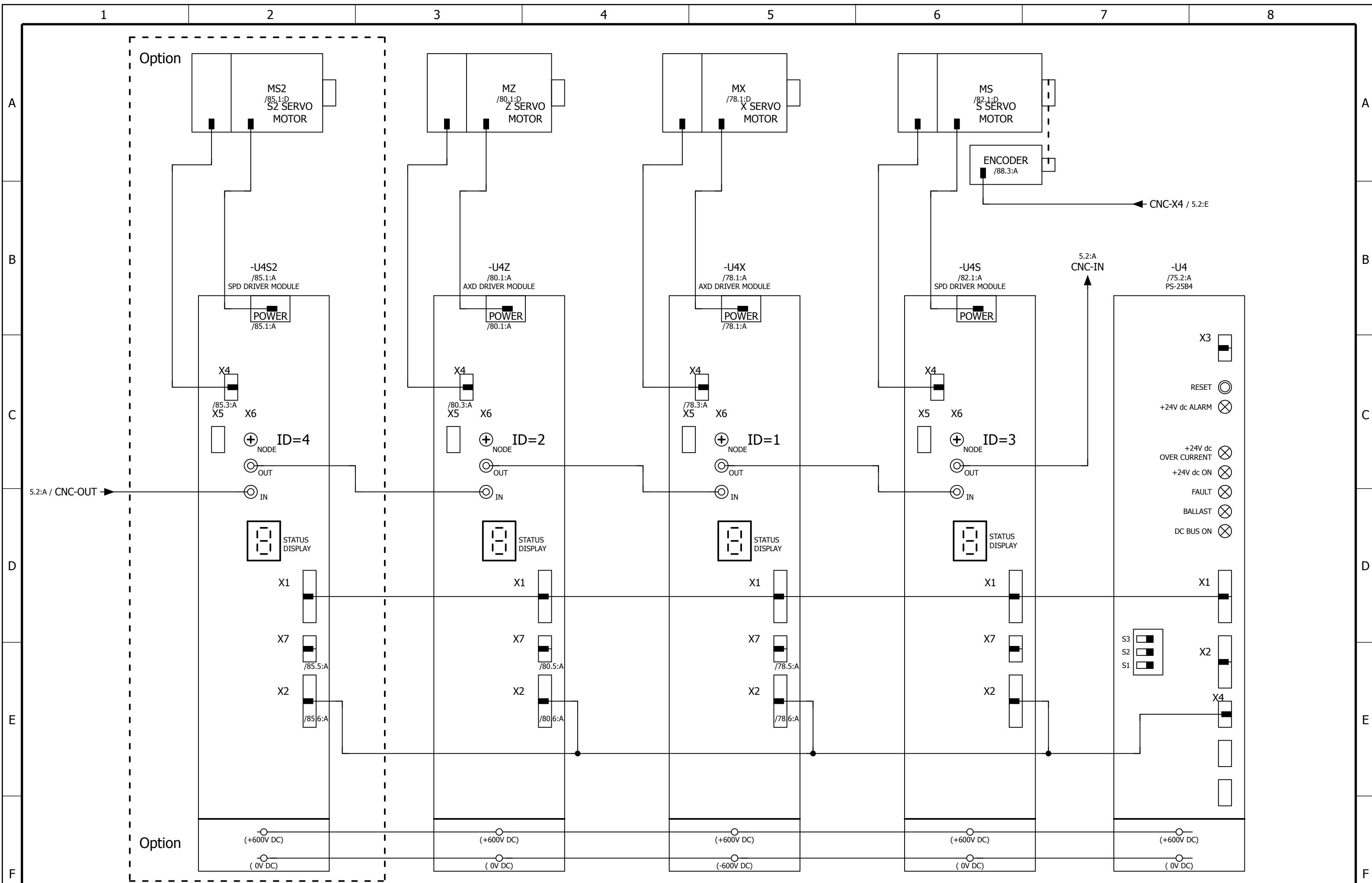
<p>Z Capacitors, star connection Capacitor, 3 connection points</p>		<p>UNIT Black box Black box</p> 
<p>QL4 Power circuit breaker / motor overload switch with switch mechanism, thermal release, without line Motor overload switch</p>		<p>SH Shield Shield, Cable definition</p> 
<p>FR Circuit breaker, single-pole Circuit breaker</p>		<p>PE Protective ground / protective conductor connection PE device connection point</p> 
<p>FR Circuit breaker, two-pole Double circuit breaker</p>		<p>PE Ground, general PE device connection point</p> 
<p>FR Circuit breaker, three-pole Triple circuit breaker</p>		<p>X Terminal Terminal</p> 
<p>FR Fuse, single-pole, general Safety fuse</p>		<p>XBS Female and male pin Male and female pin</p> 
<p>FR Fuse, two-pole, general Double safety fuse</p>		
<p>FR Fuse, three-pole, general Triple safety fuse</p>		



Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
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Editor	Vincent				

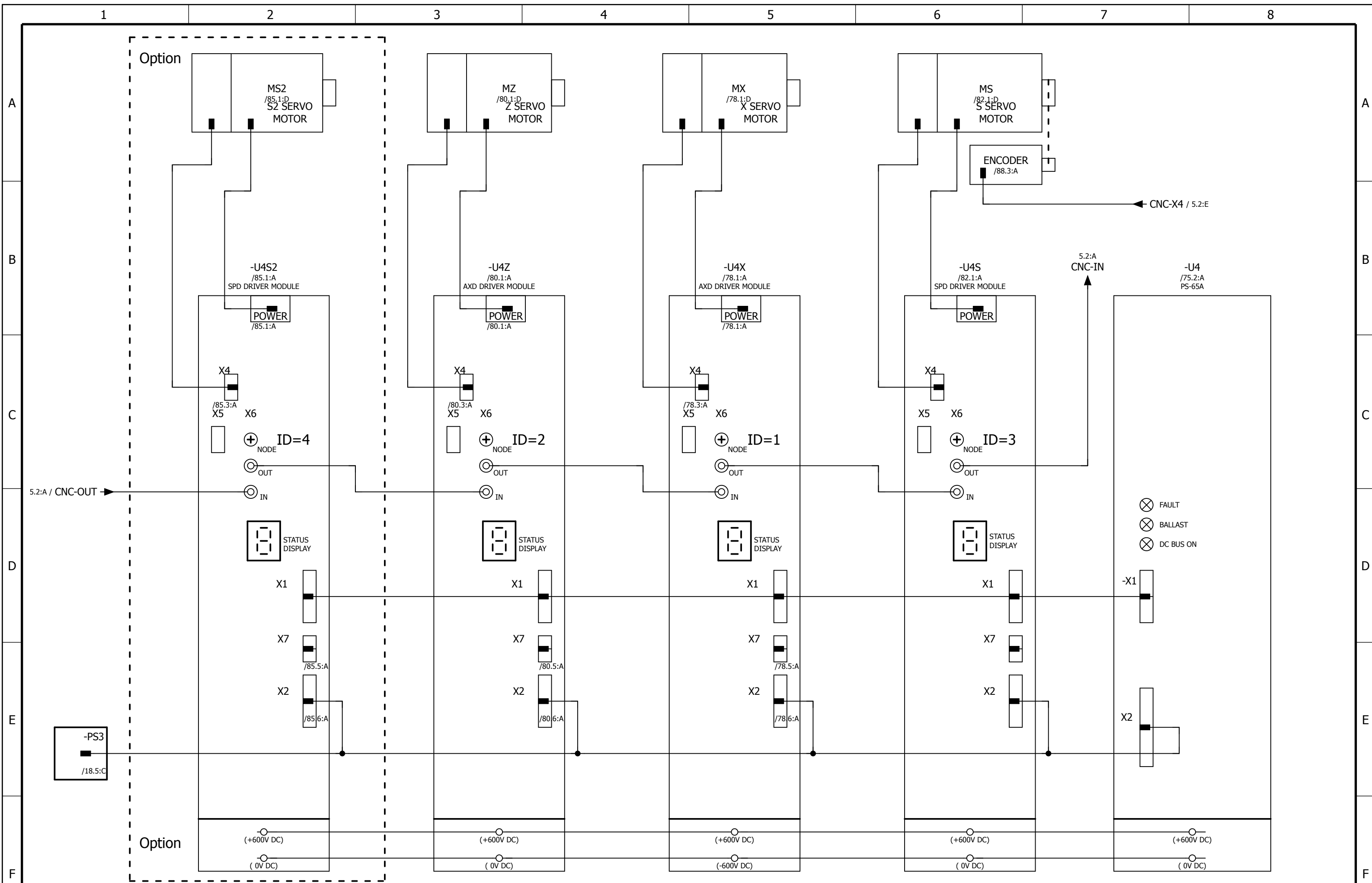
* This is for machine MP-446 only.





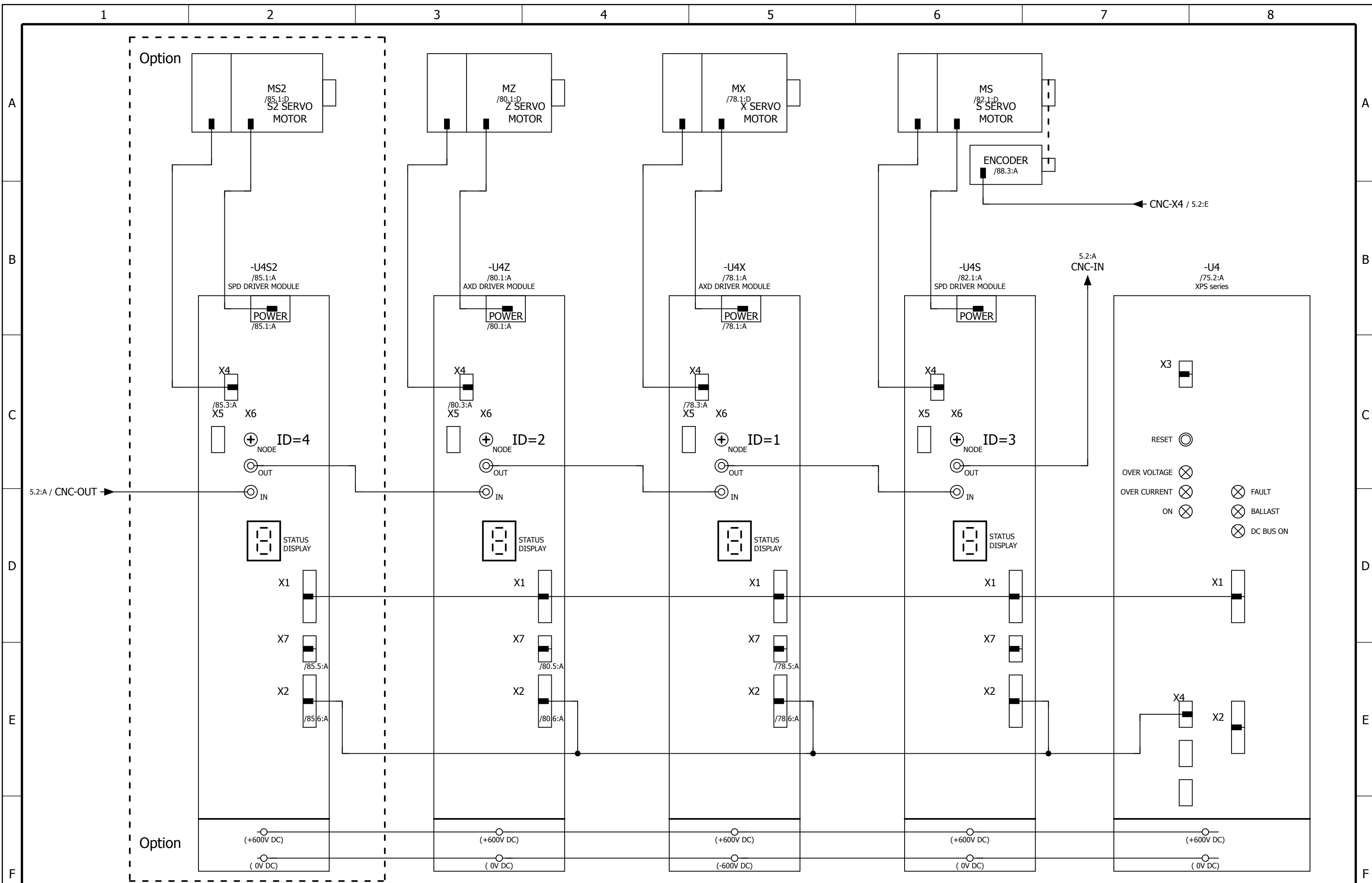
DDS SERVO SYSTEM OVERVIEW (PS-25B4)

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	7
Date	2013.05.17			Total	169
Editor	Vincent				



DDS SERVO SYSTEM OVERVIEW (PS-65A)

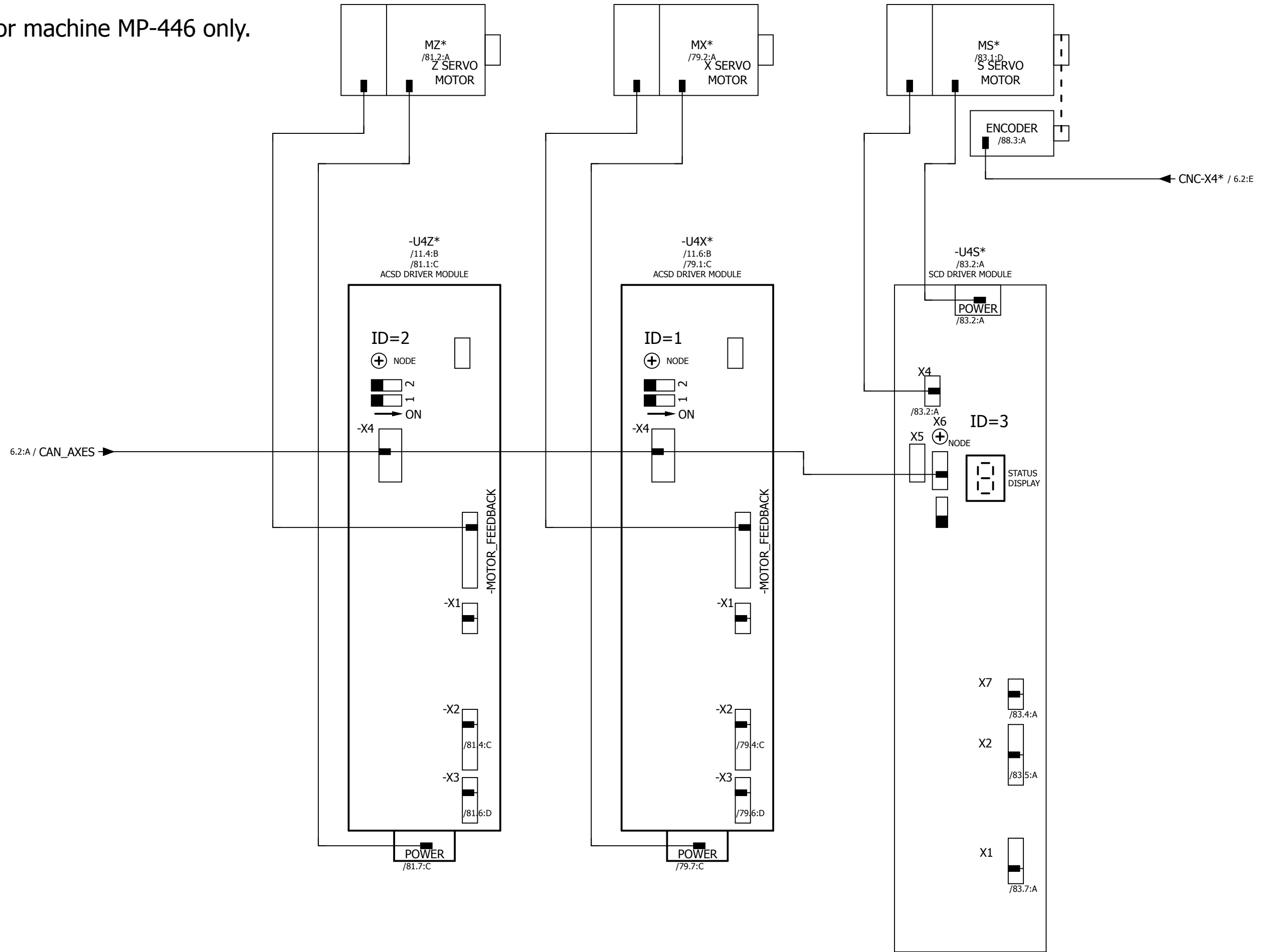
Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	8
Date	2013.05.17			Total	169
Editor	Vincent				



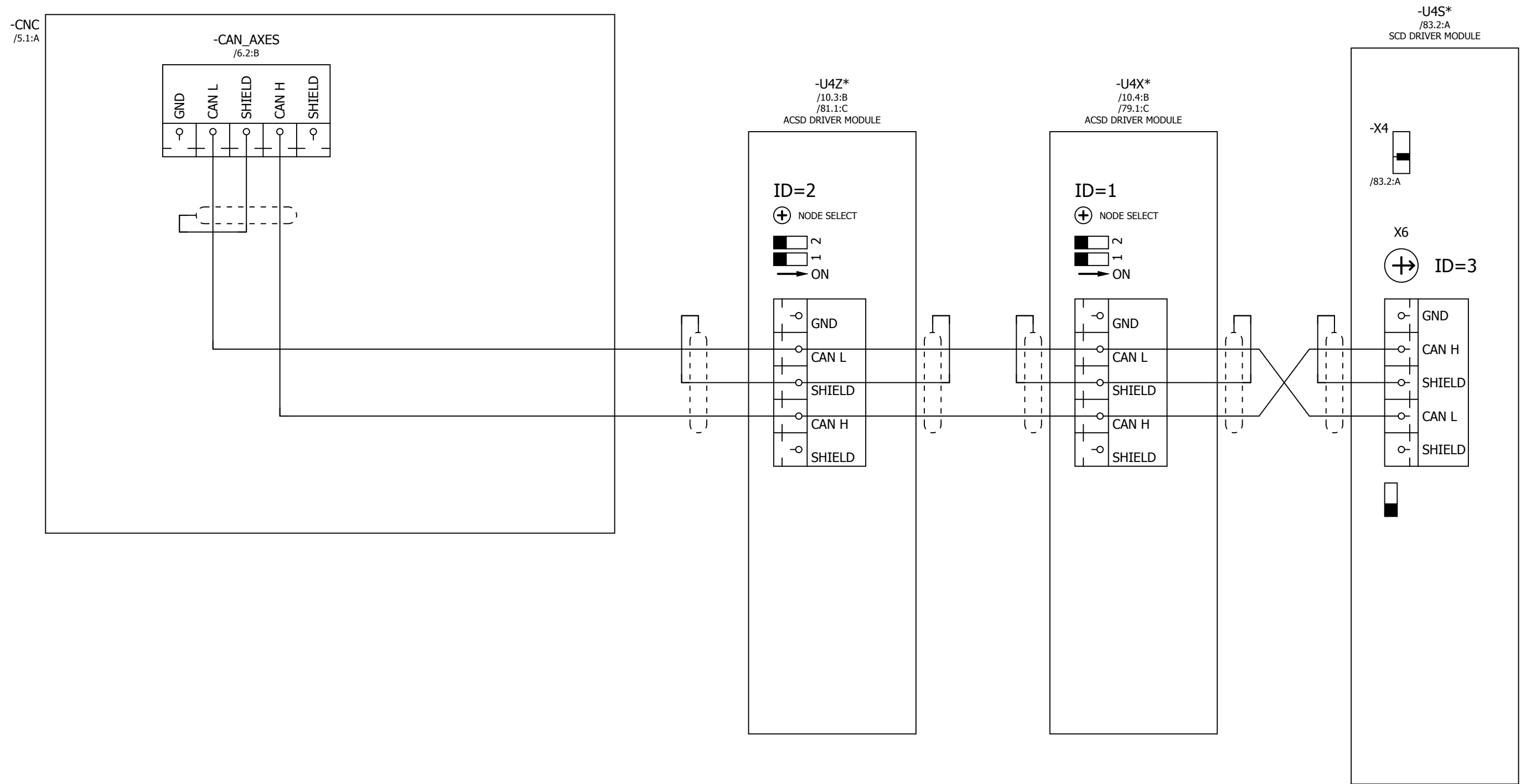
DDS SERVO SYSTEM OVERVIEW (XPS series)

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	9
Date	2013.05.17			Total	169
Editor	Vincent				

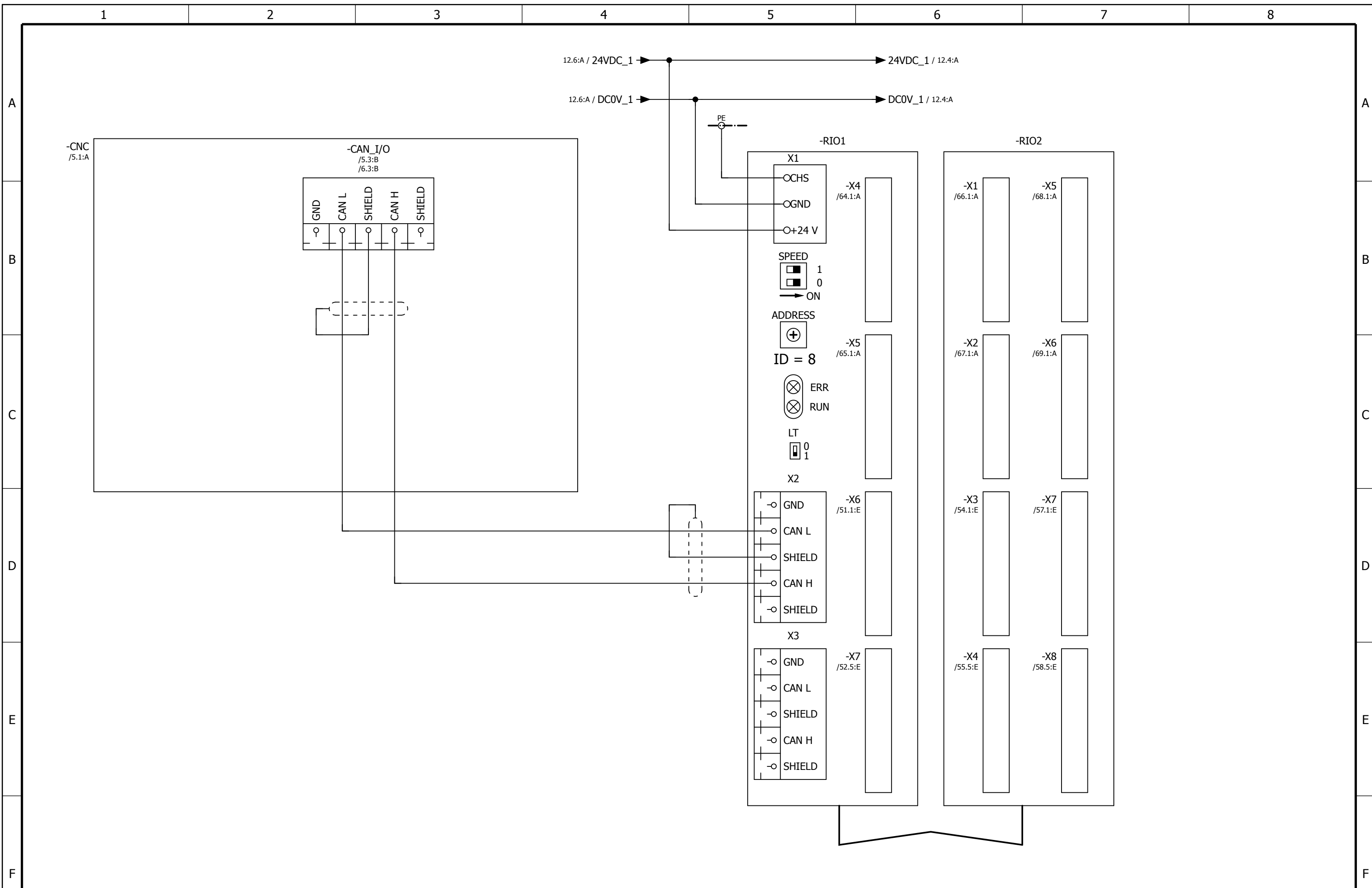
* This is for machine MP-446 only.



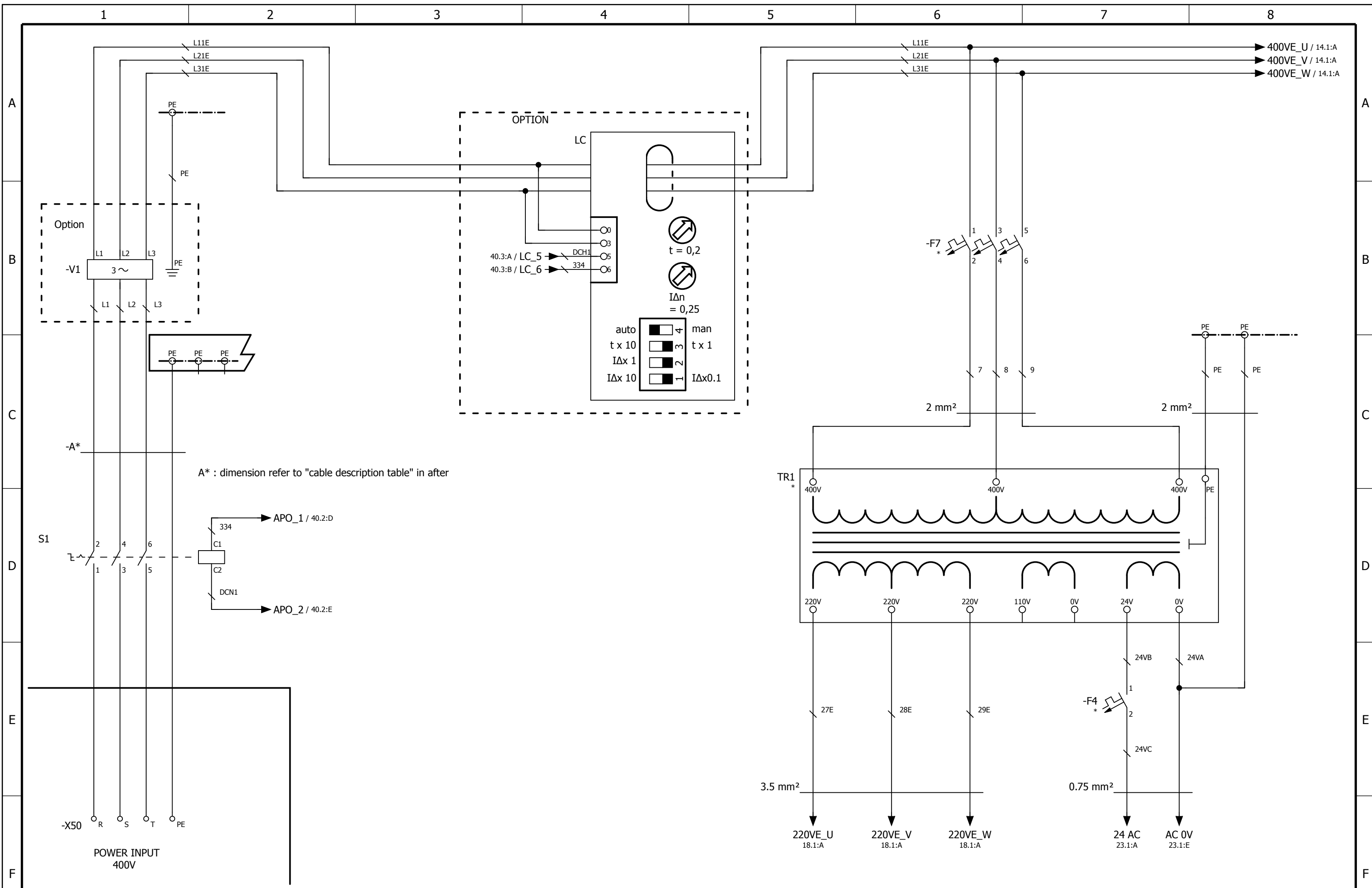
* This is for machine MP-446 only.



Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	11
Date	2013.05.17			Total	169
Editor	Vincent				

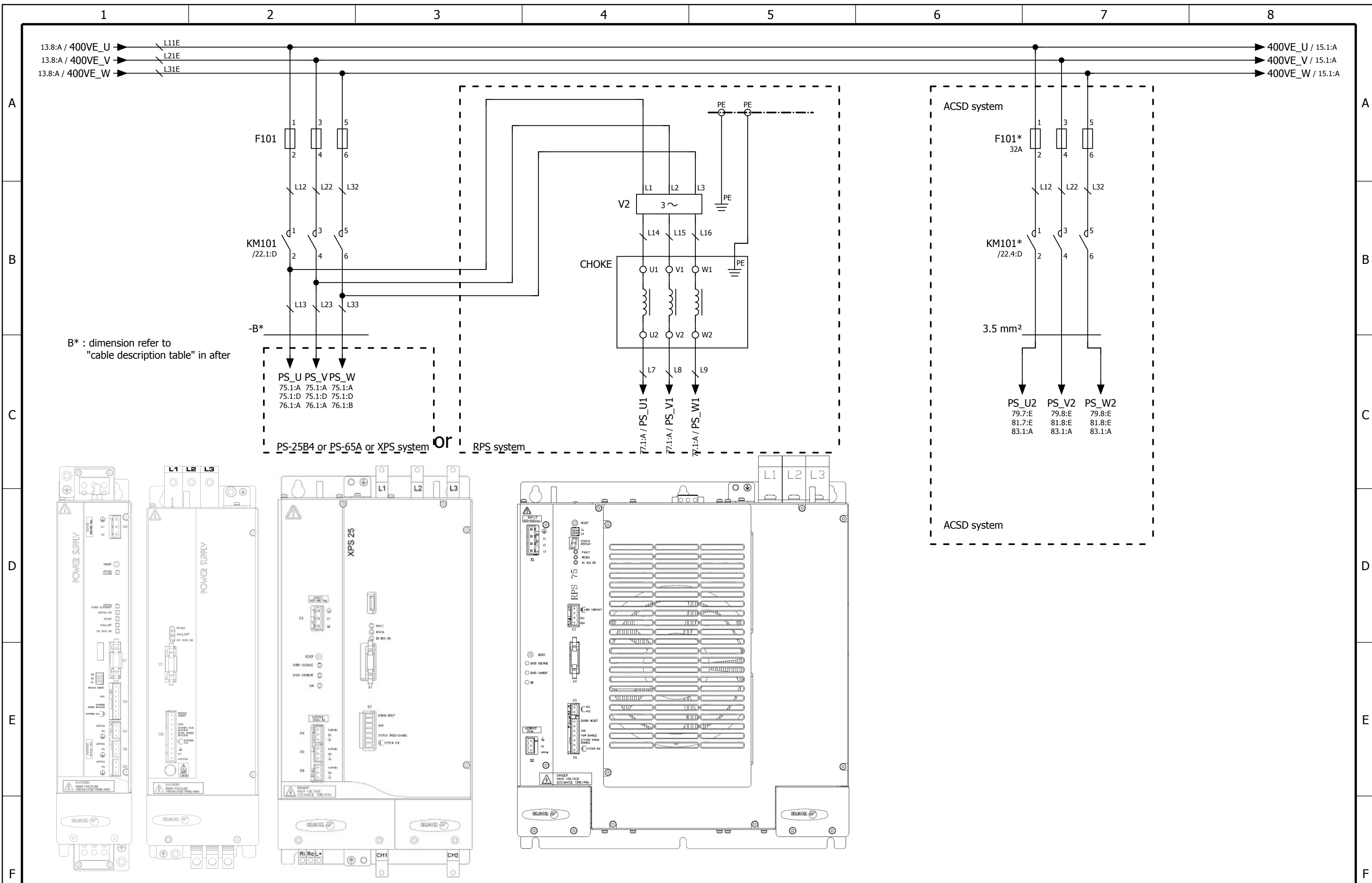


Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 12
Editor	Vincent		Total 169



MAIN POWER SYSTEM-1

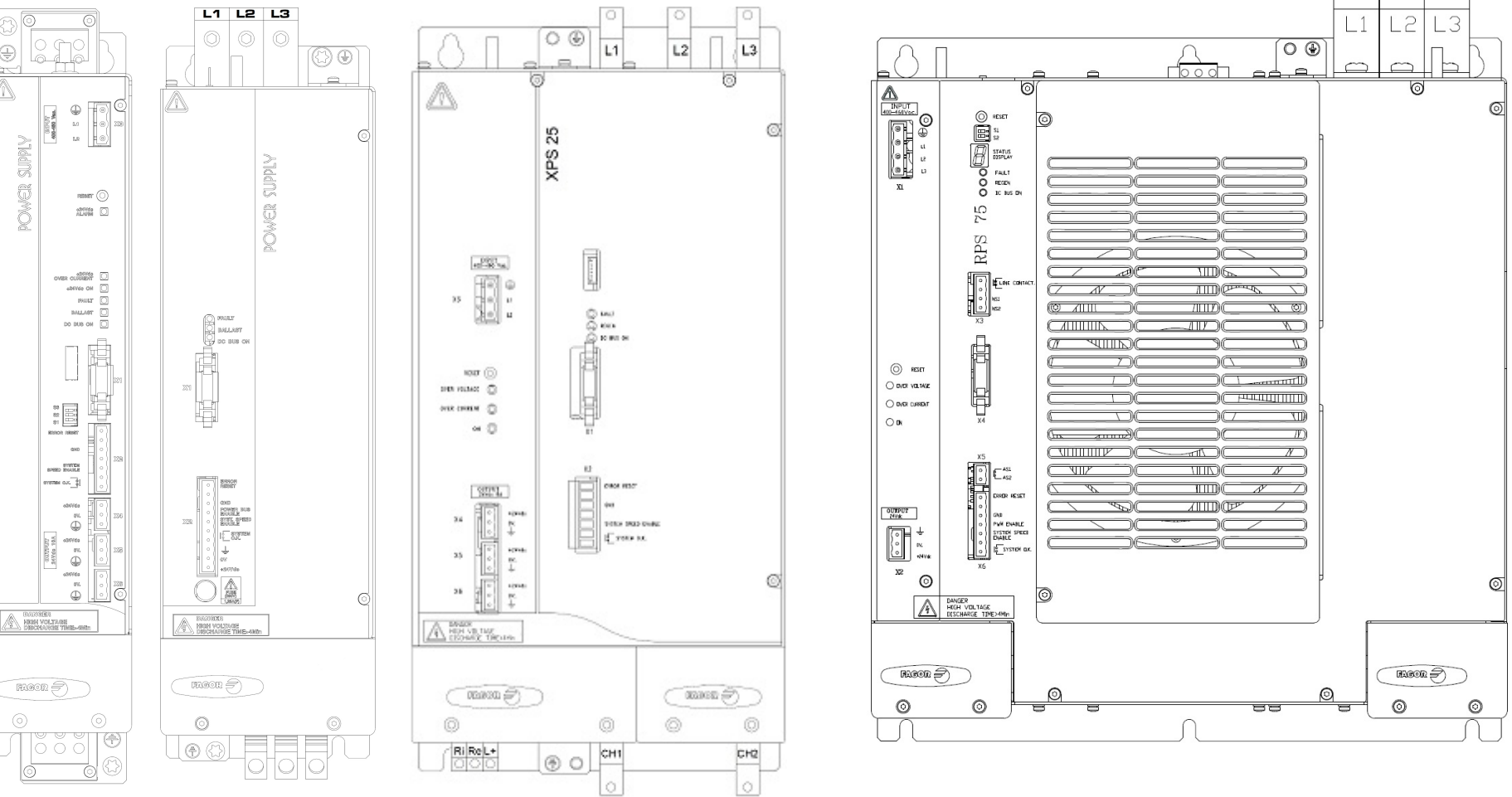
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
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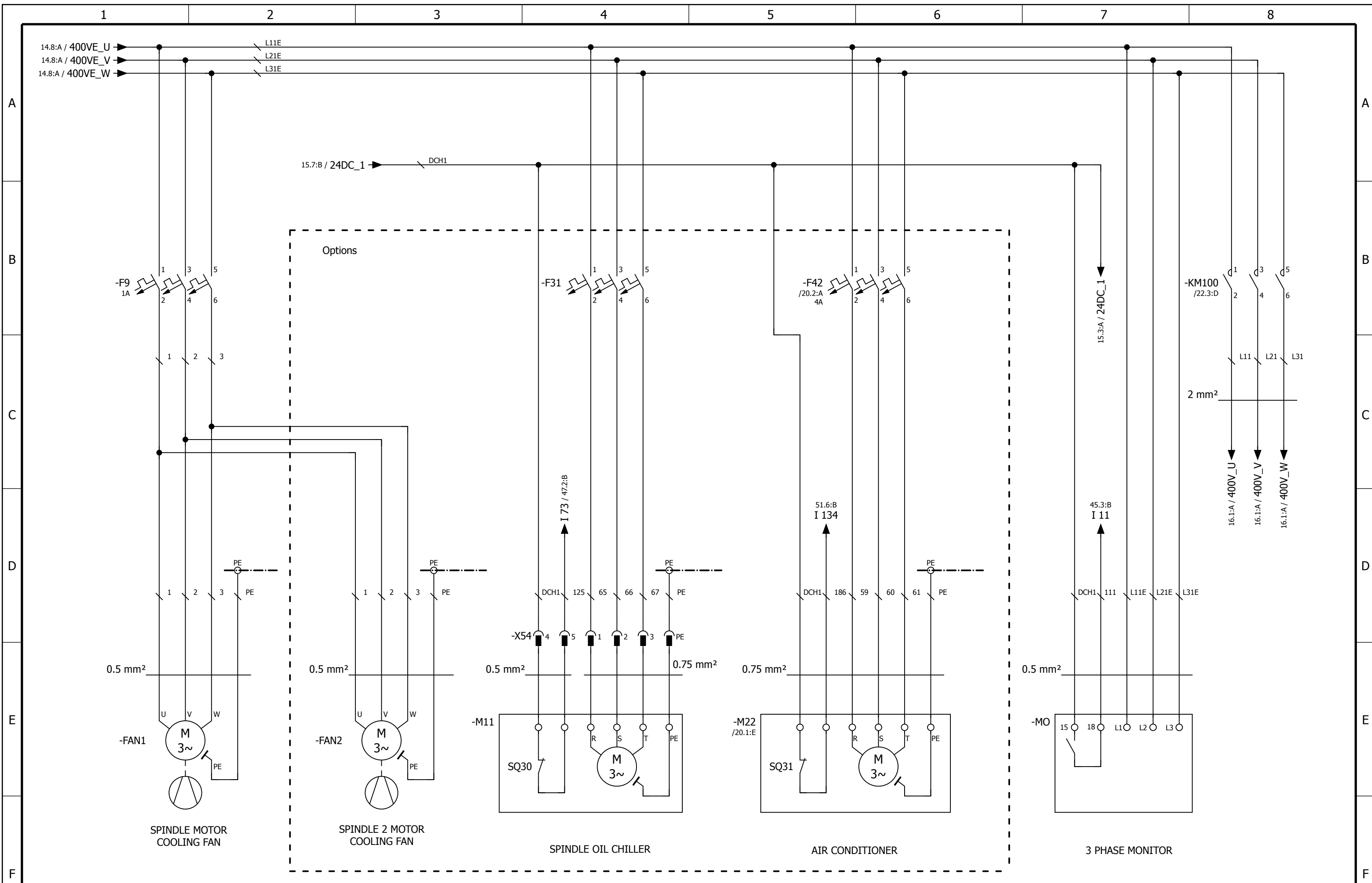
B* : dimension refer to "cable description table" in after

PS_U PS_V PS_W
 75.1:A 75.1:A 75.1:A
 75.1:D 75.1:D 75.1:D
 76.1:A 76.1:A 76.1:B

PS-25B4 or PS-65A or XPS_system Or RPS system

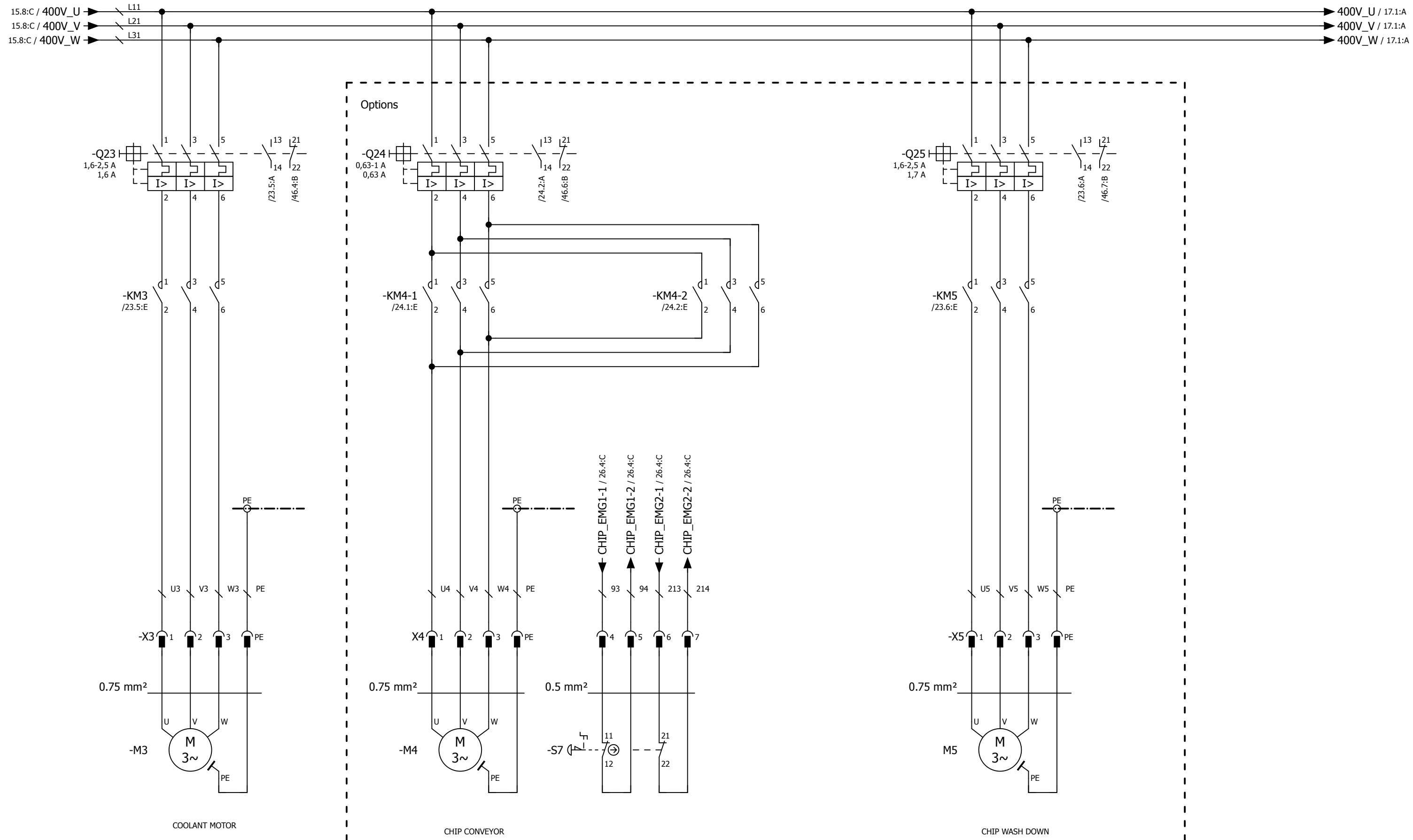


Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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400V AC POWER-1

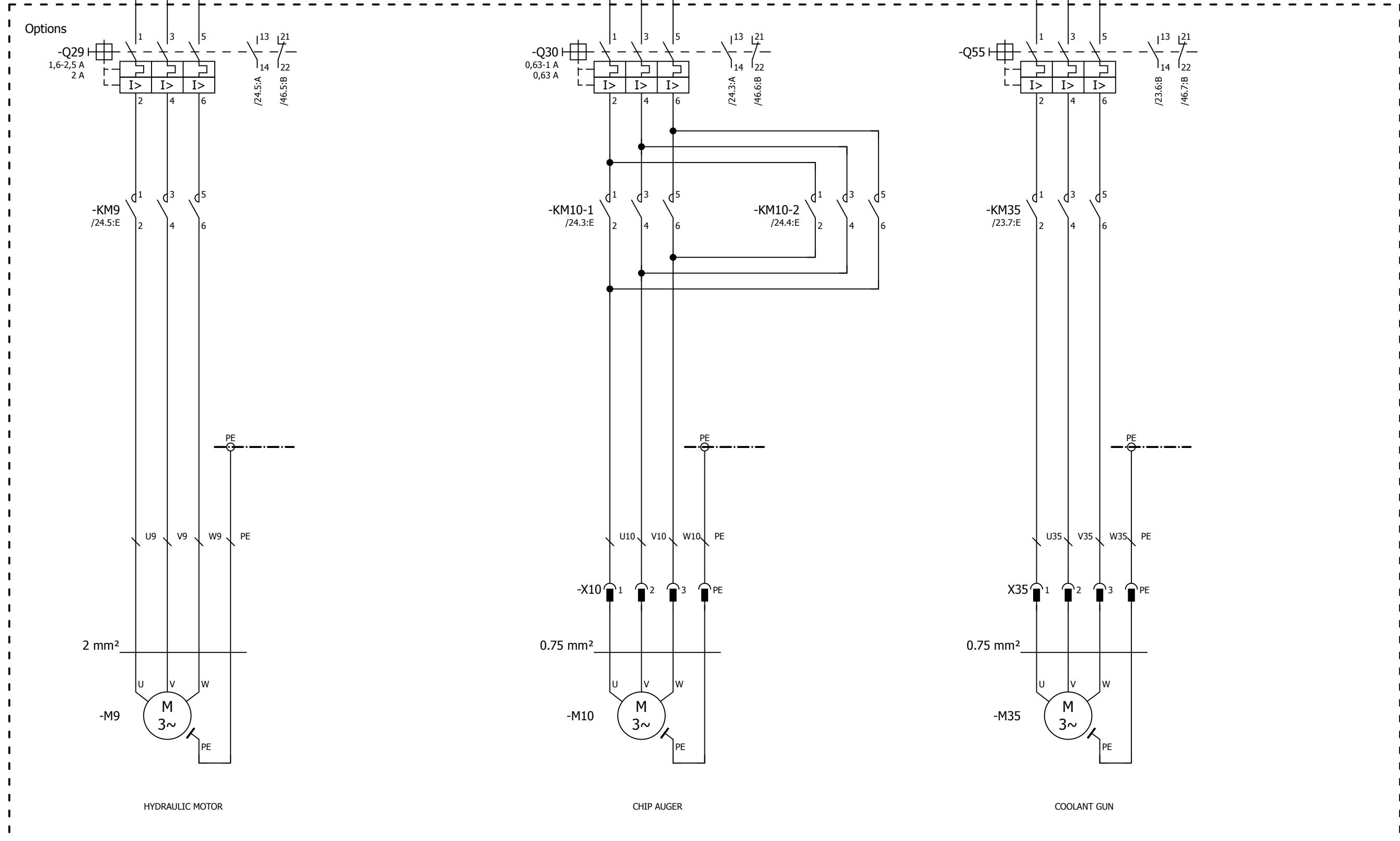
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	15
		Total	169



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16.8:A / 400V_U → L11
 16.8:A / 400V_V → L21
 16.8:A / 400V_W → L31

→ 400V_U /
 → 400V_V /
 → 400V_W /



HYDRAULIC MOTOR

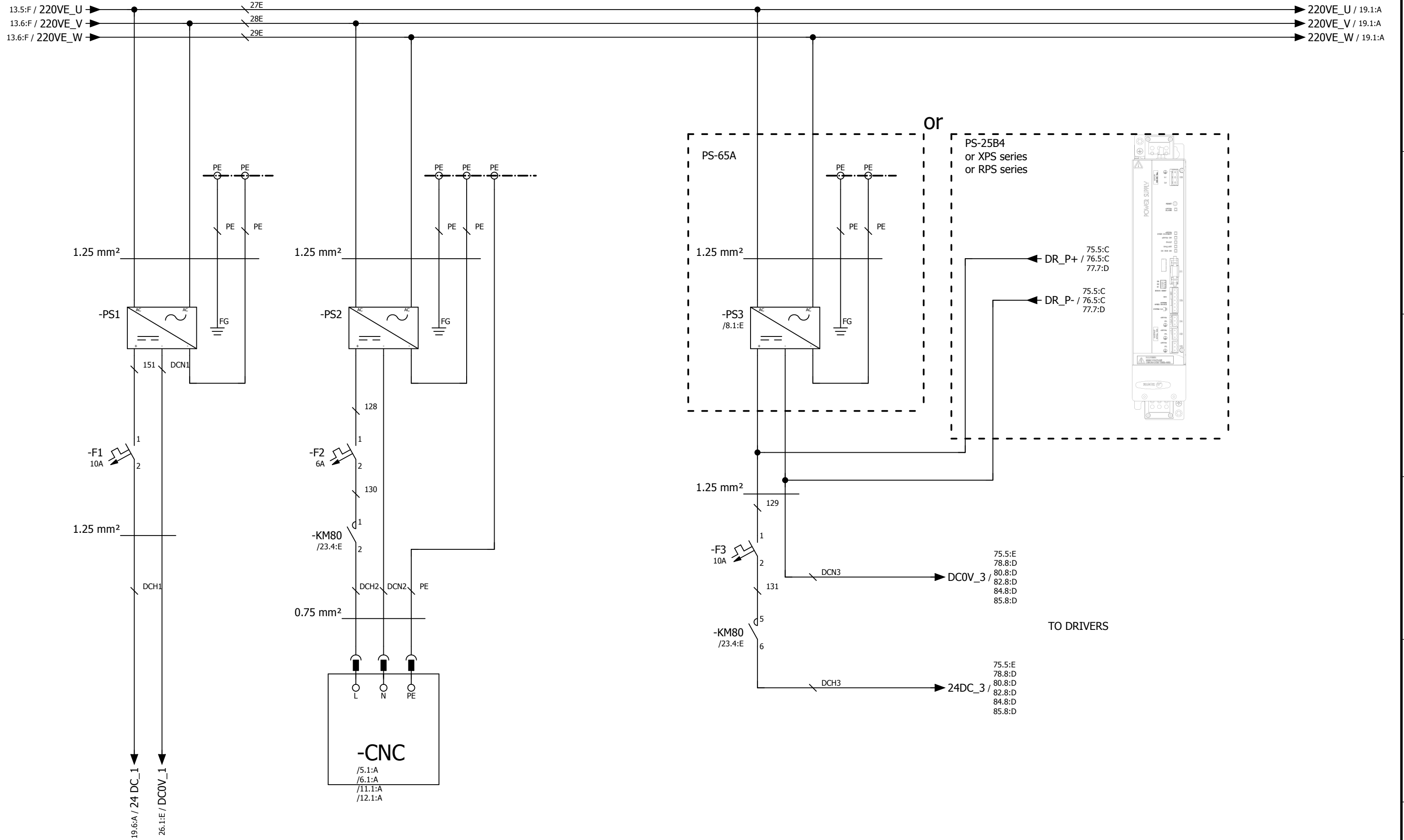
CHIP AUGER

COOLANT GUN



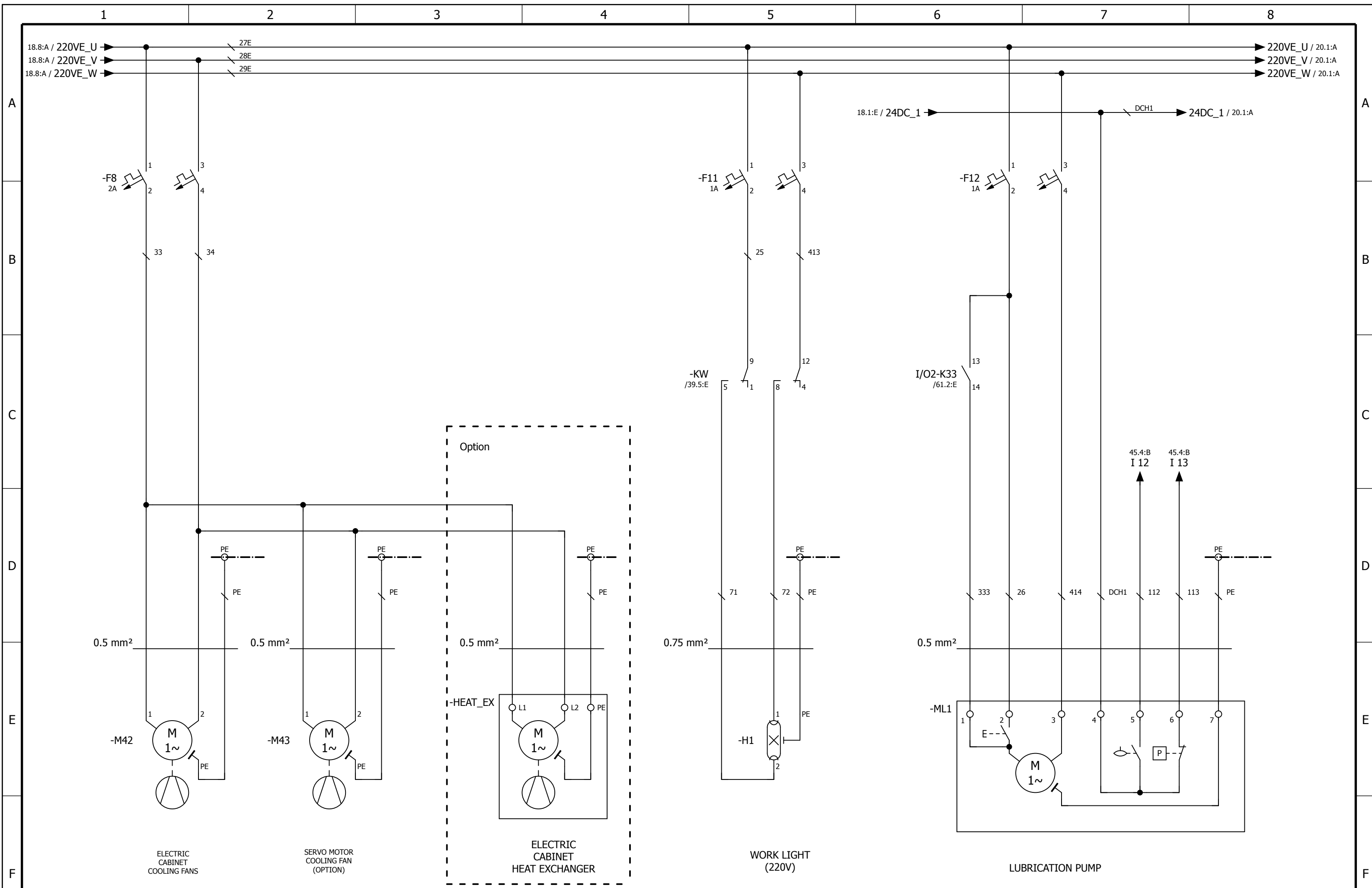
400V AC POWER-3

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	17
Date	2013.05.17			Total	169
Editor	Vincent				



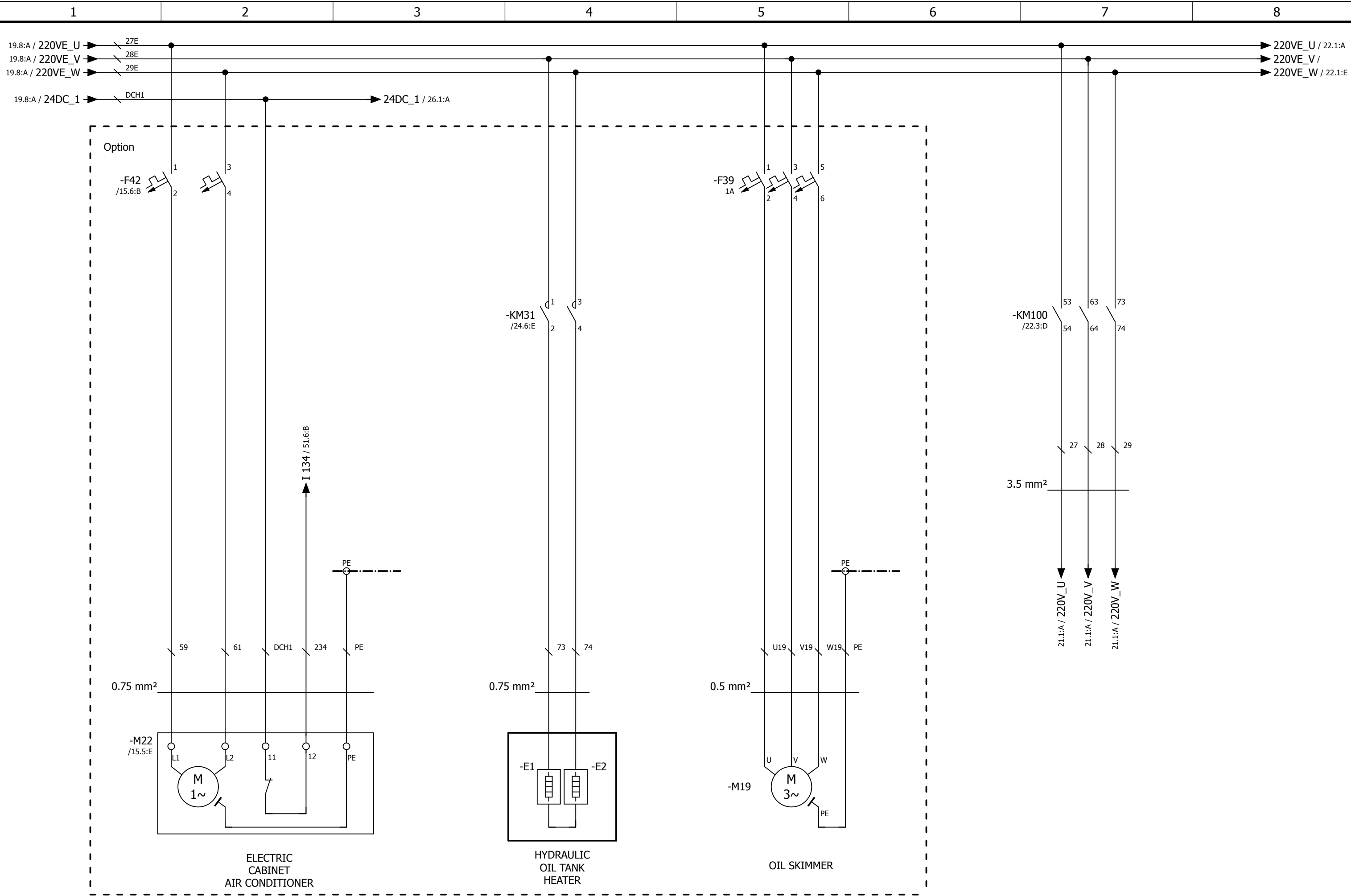
220V AC POWER-1

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	18
Date	2013.05.17			Total	169
Editor	Vincent				

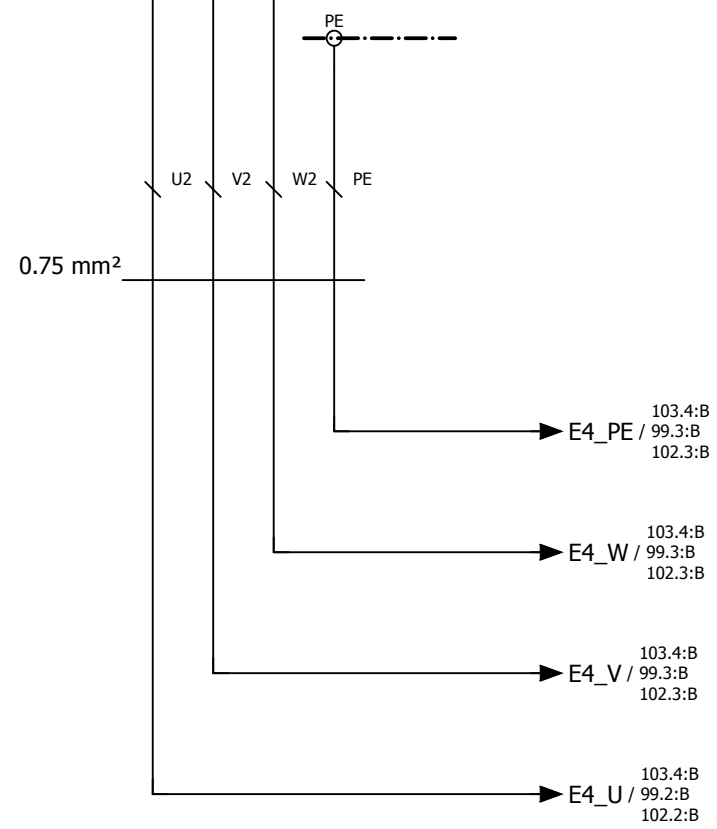
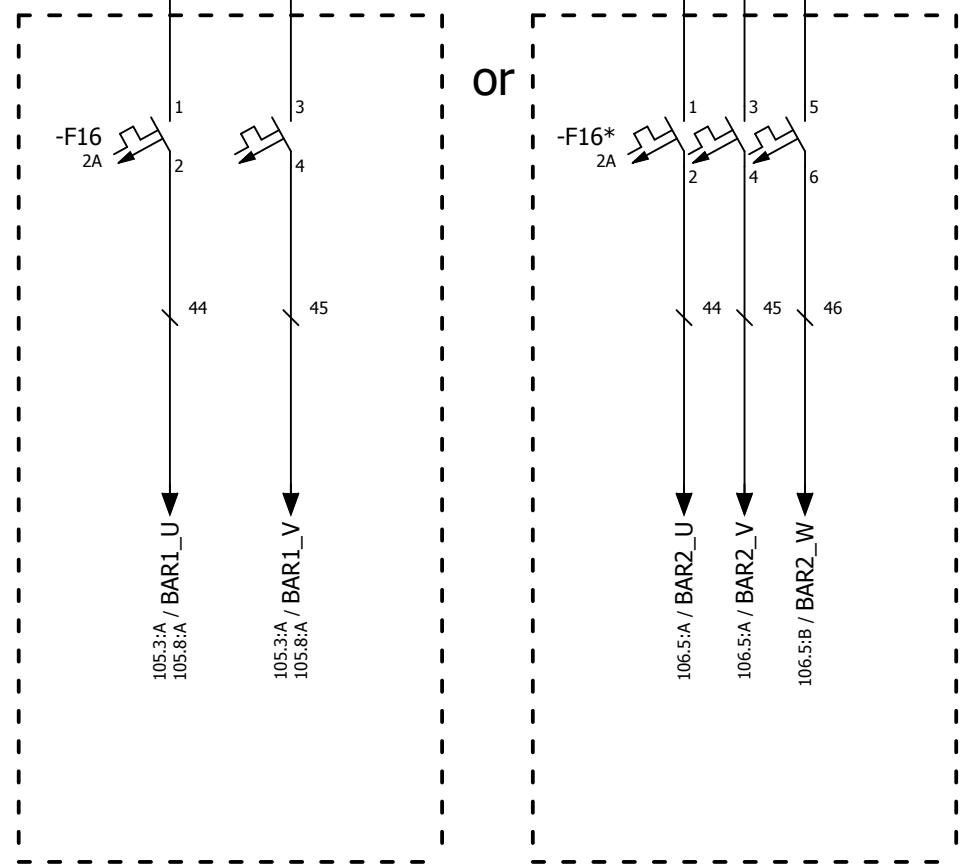
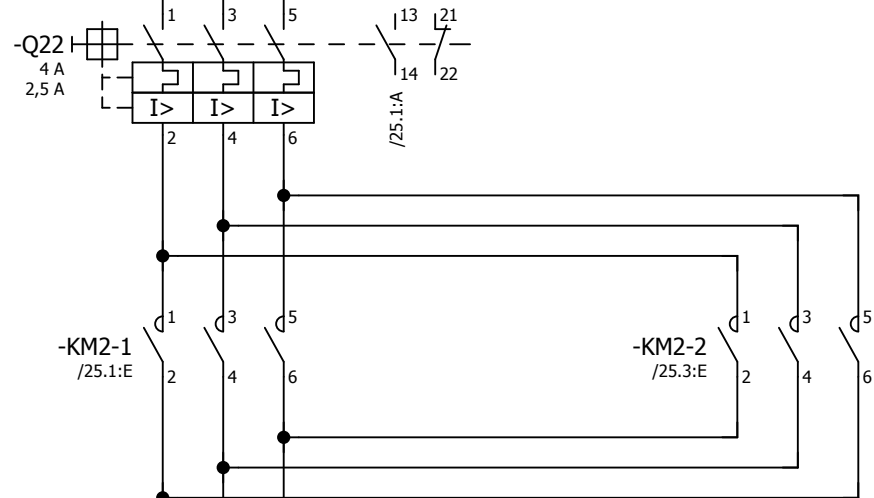
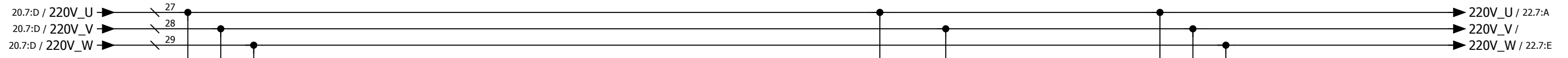


220V AC POWER-2

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	19
Date	2013.05.17			Total	169
Editor	Vincent				



Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 20
Editor	Vincent		Total 169

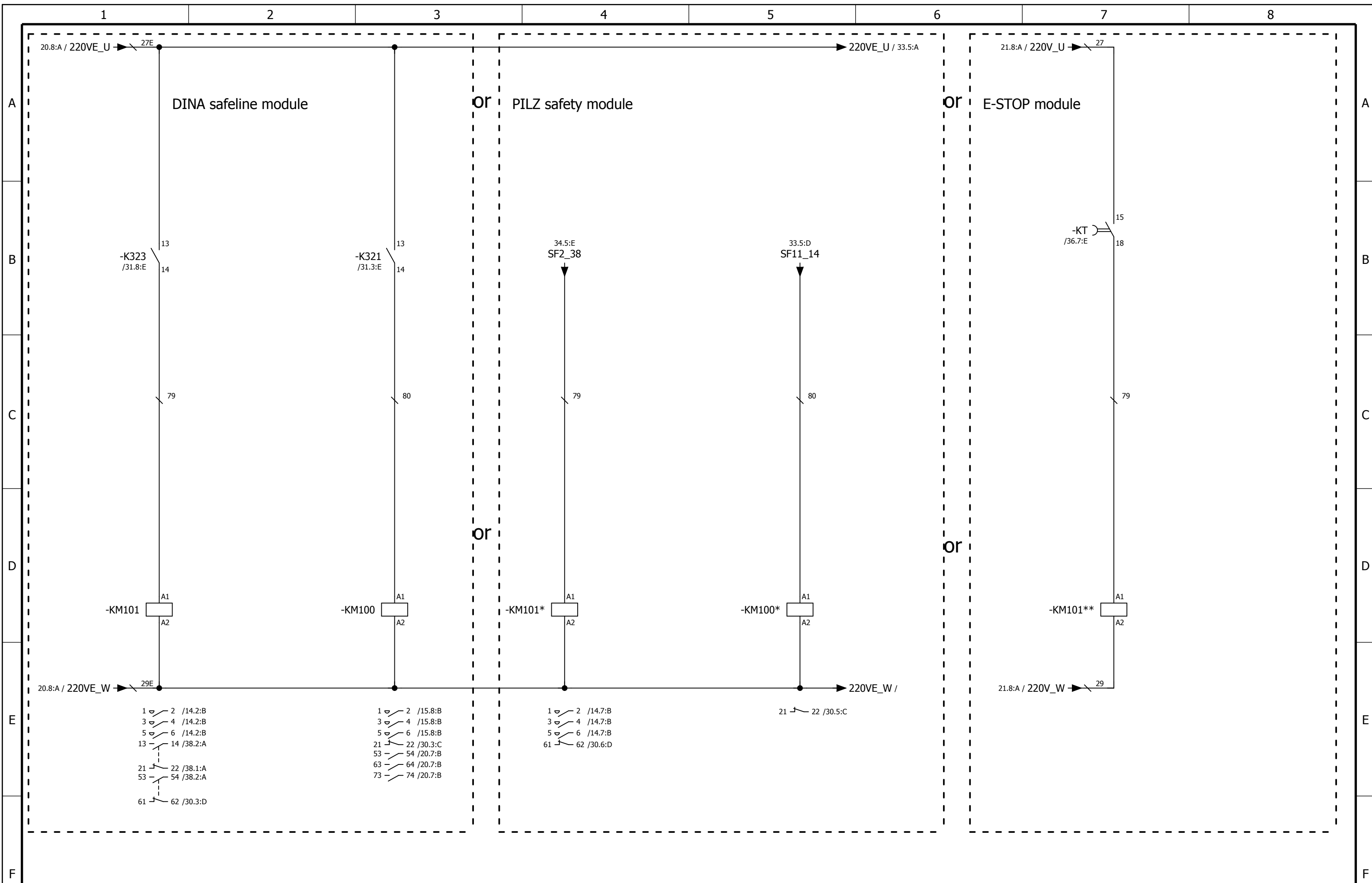


ELECTRIC
4 WAY
TOOL POST



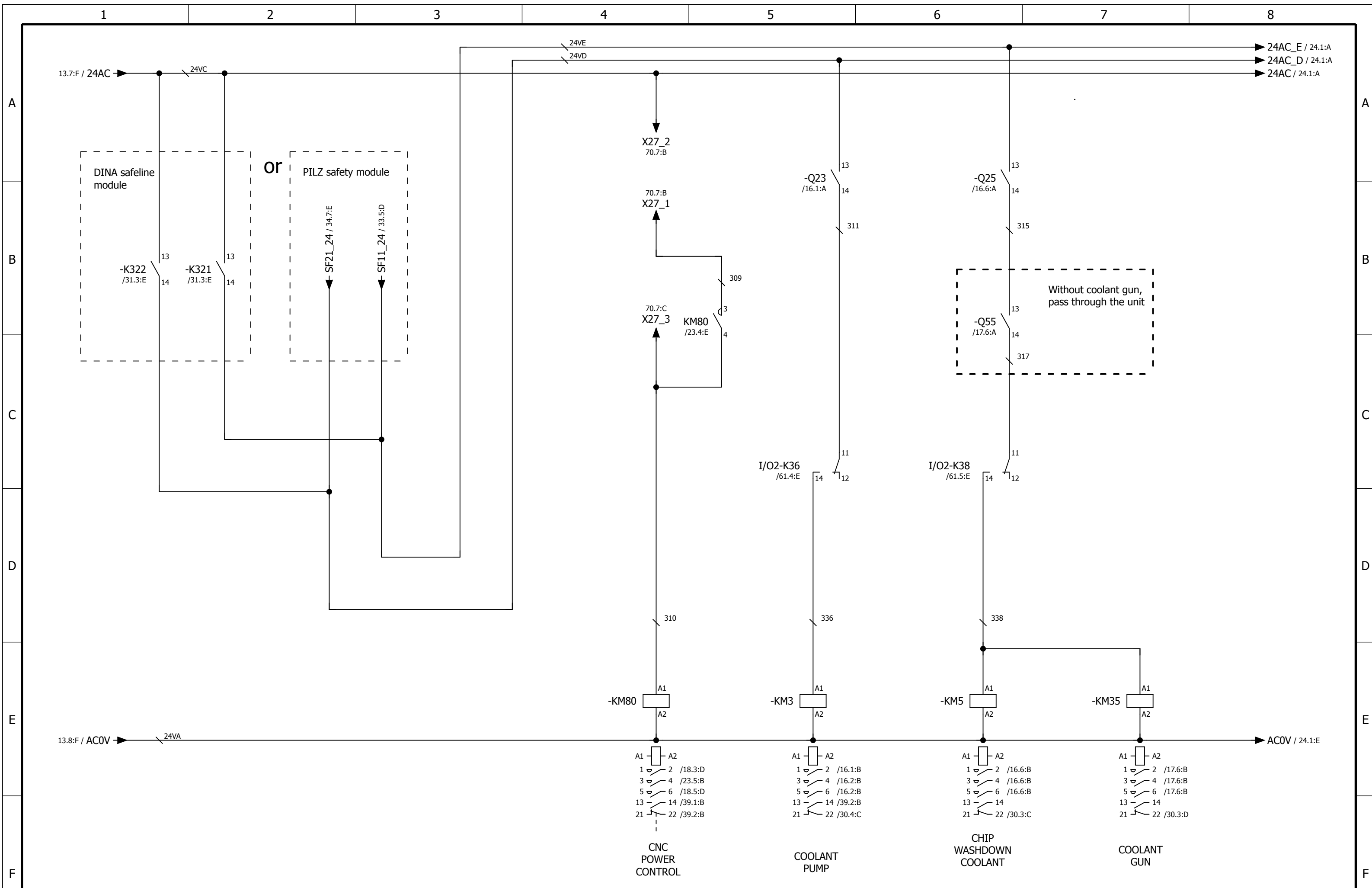
220V AC POWER-4

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	21
Date	2013.05.17			Total	169
Editor	Vincent				



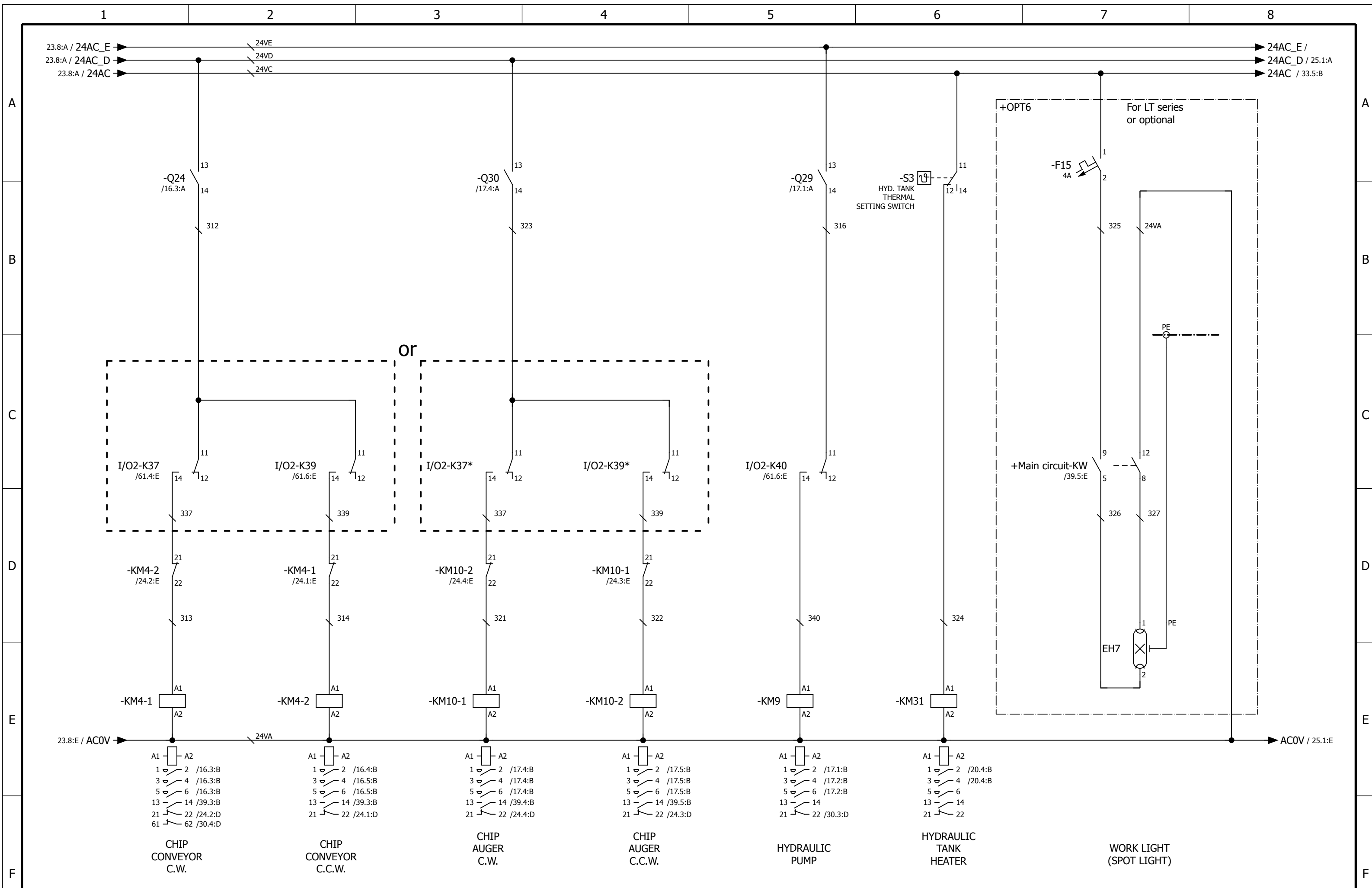
220V AC CONTROL LOOP

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	22
Date	2013.05.17			Total	169
Editor	Vincent				



24V AC CONTROL LOOP-1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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24V AC CONTROL LOOP-2

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 24
Editor	Vincent		Total 169

24.8:A / 24AC_D

24VD

-Q22
/21.1:A

13

14

331

-I_O2-K52

11

12

14

352

21

22

-KM2-2
/25.3:E

329

-KM2-1

A1

A2

24.8:E / ACOV

24VA

- A1 — A2
- 1 — 2 /21.1:B
- 3 — 4 /21.2:B
- 5 — 6 /21.2:B
- 13 — 14
- 21 — 22 /25.3:D
- 61 — 62 /30.4:C

4 WAY TURRET
MOTOR C.W.

-I_O2-K53

11

12

14

353

21

22

-KM2-1
/25.1:E

330

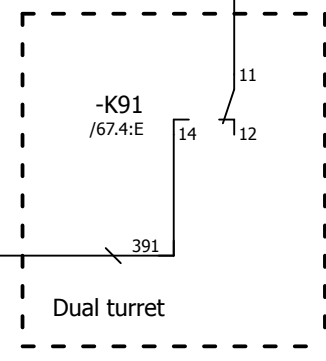
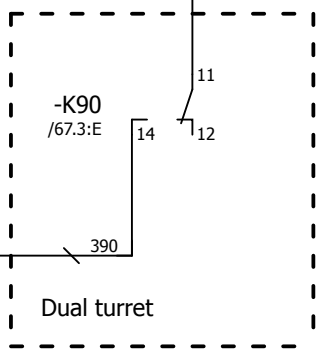
-KM2-2

A1

A2

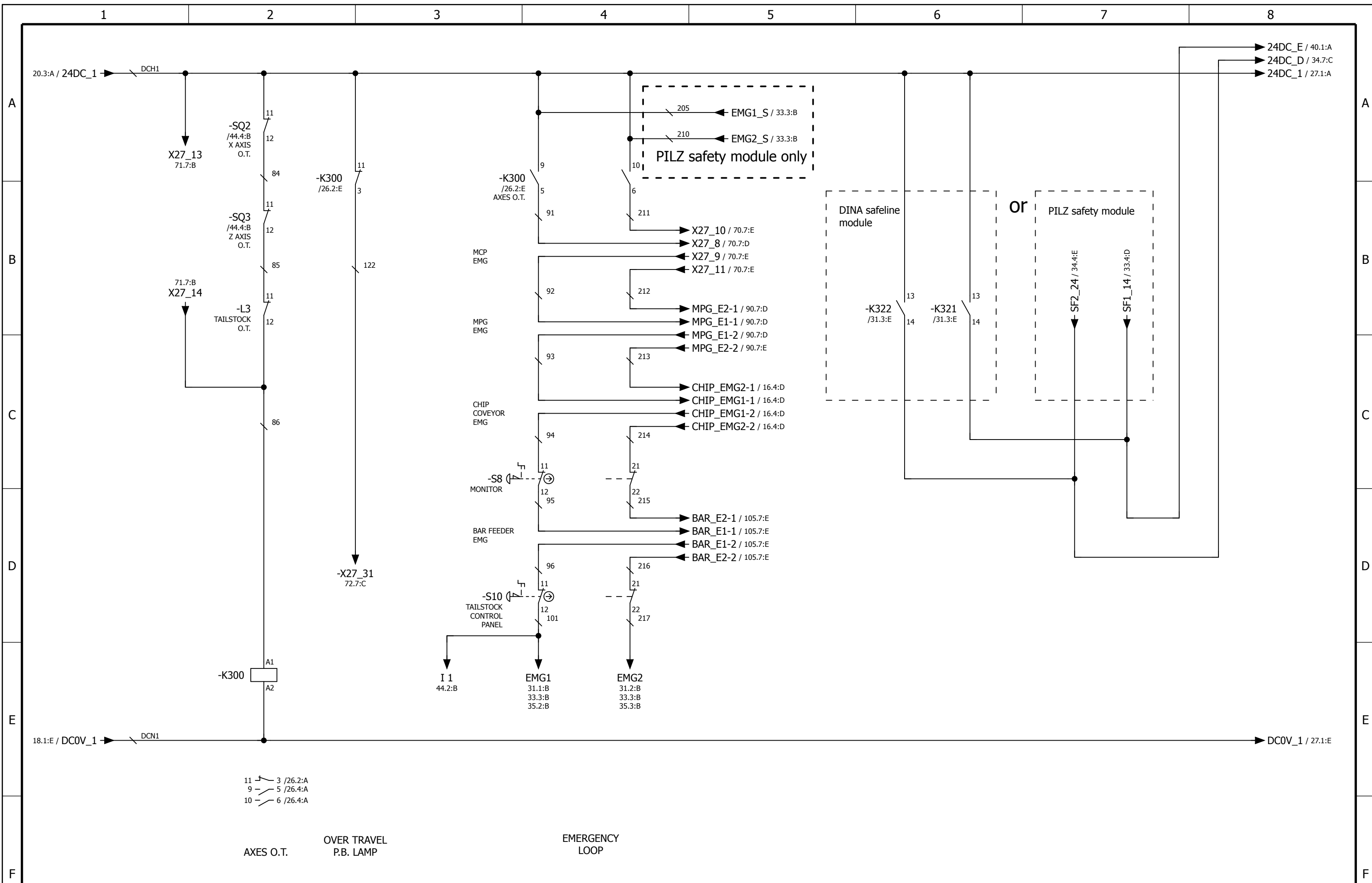
- A1 — A2
- 1 — 2 /21.3:B
- 3 — 4 /21.3:B
- 5 — 6 /21.3:B
- 13 — 14
- 21 — 22 /25.1:D
- 61 — 62 /30.4:C

4 WAY TURRET
MOTOR C.C.W.



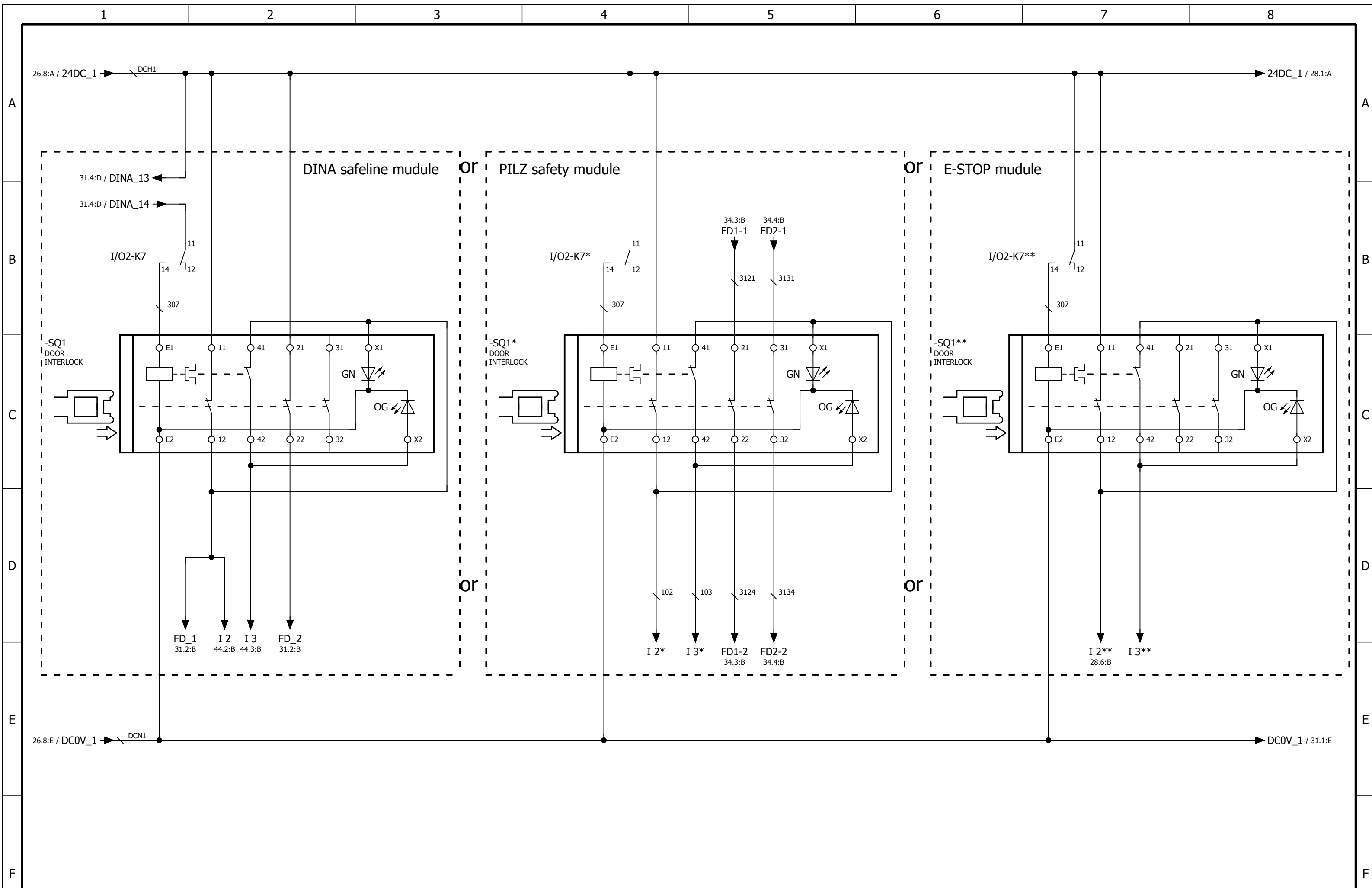
24V AC CONTROL LOOP-3

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	25
Date	2013.05.17			Total	169
Editor	Vincent				



AXES O.T. & EMERGENCY CIRCUIT

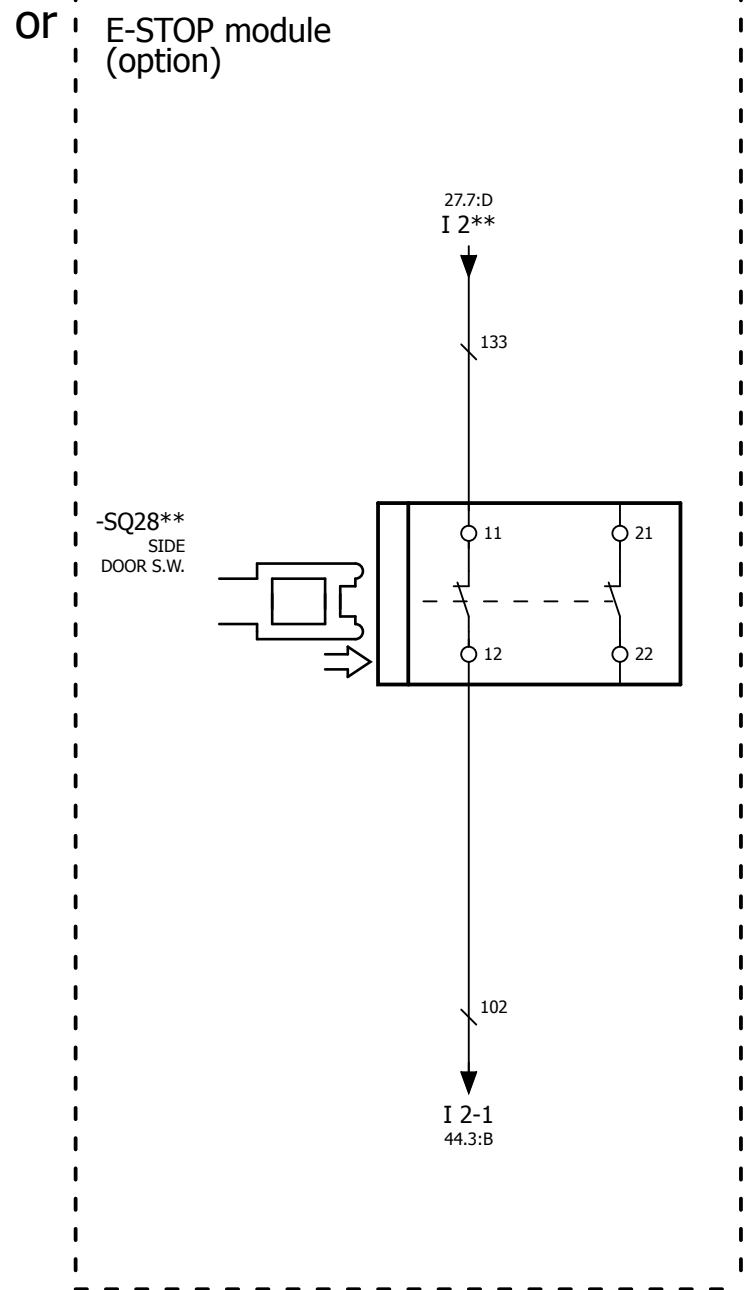
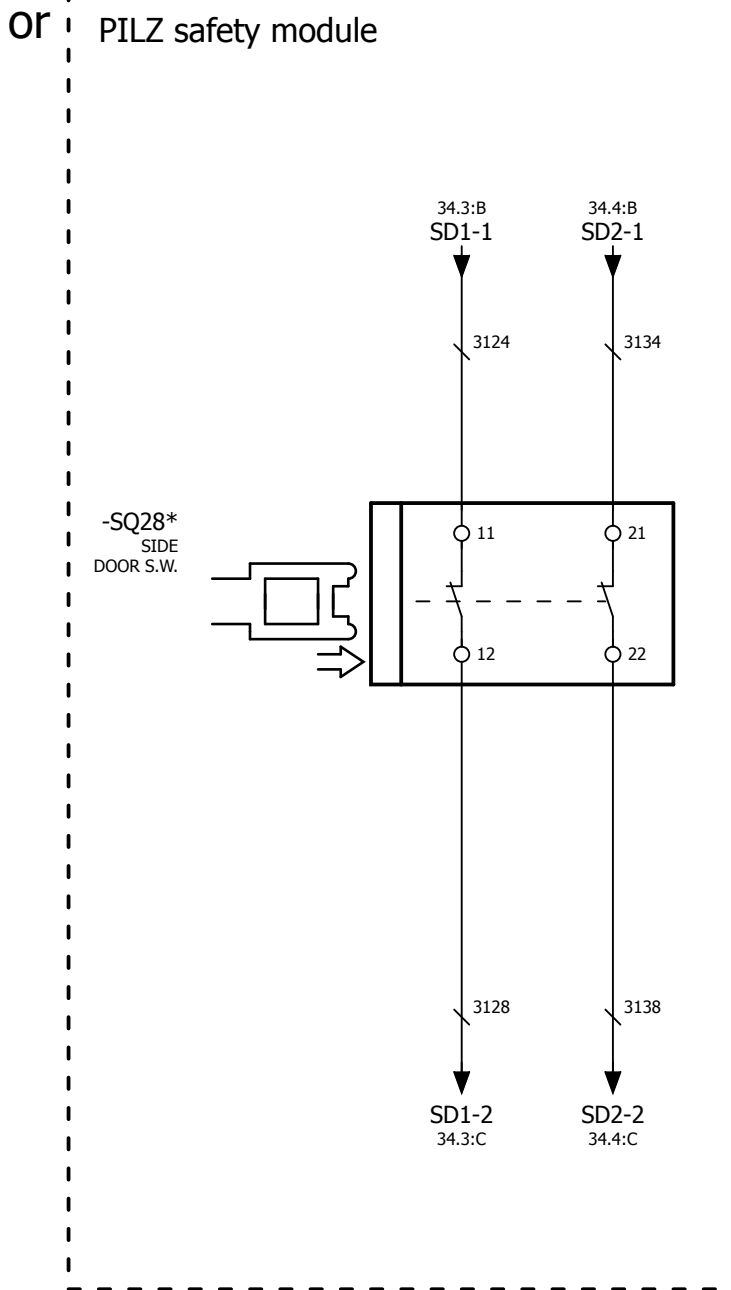
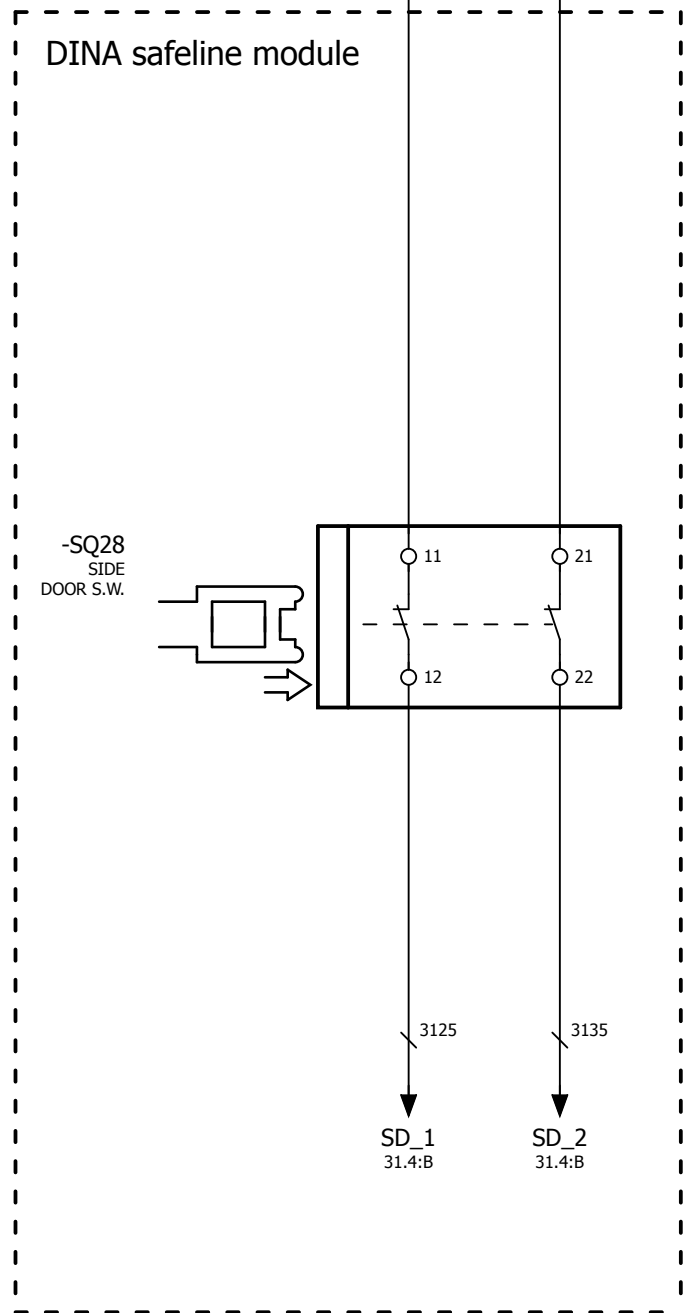
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 26
Editor	Vincent		Total 169



FRONT DOOR INTERLOCK CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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Editor	Vincent		Total 169

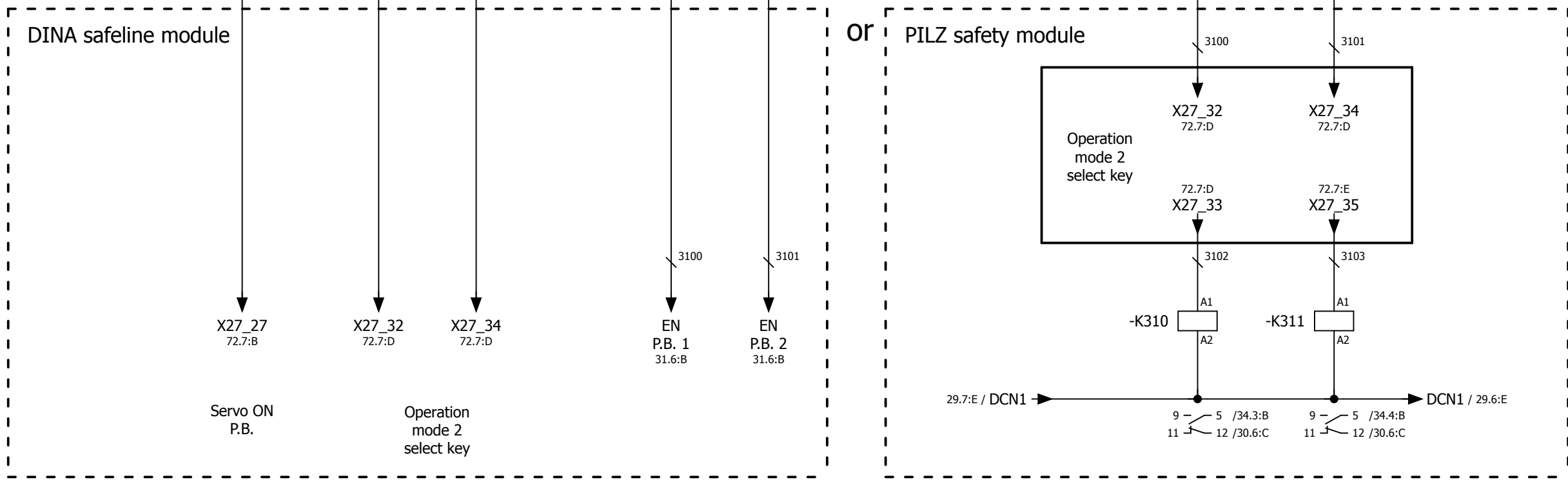
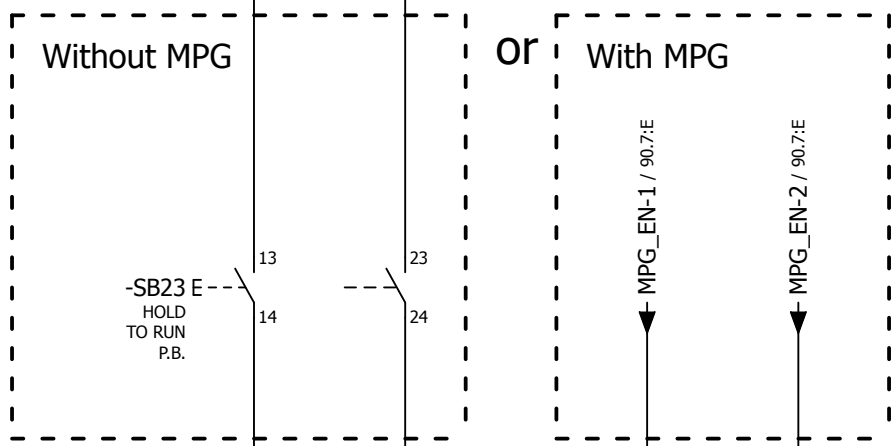
27.8:A / 24DC_1 → DCH1 → 24DC_1 / 29.1:A



Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	28
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28.8:A / 24DC_1 → DCH1 → 24DC_1 / 30.1:A

* No function if fit with "E-STOP" module



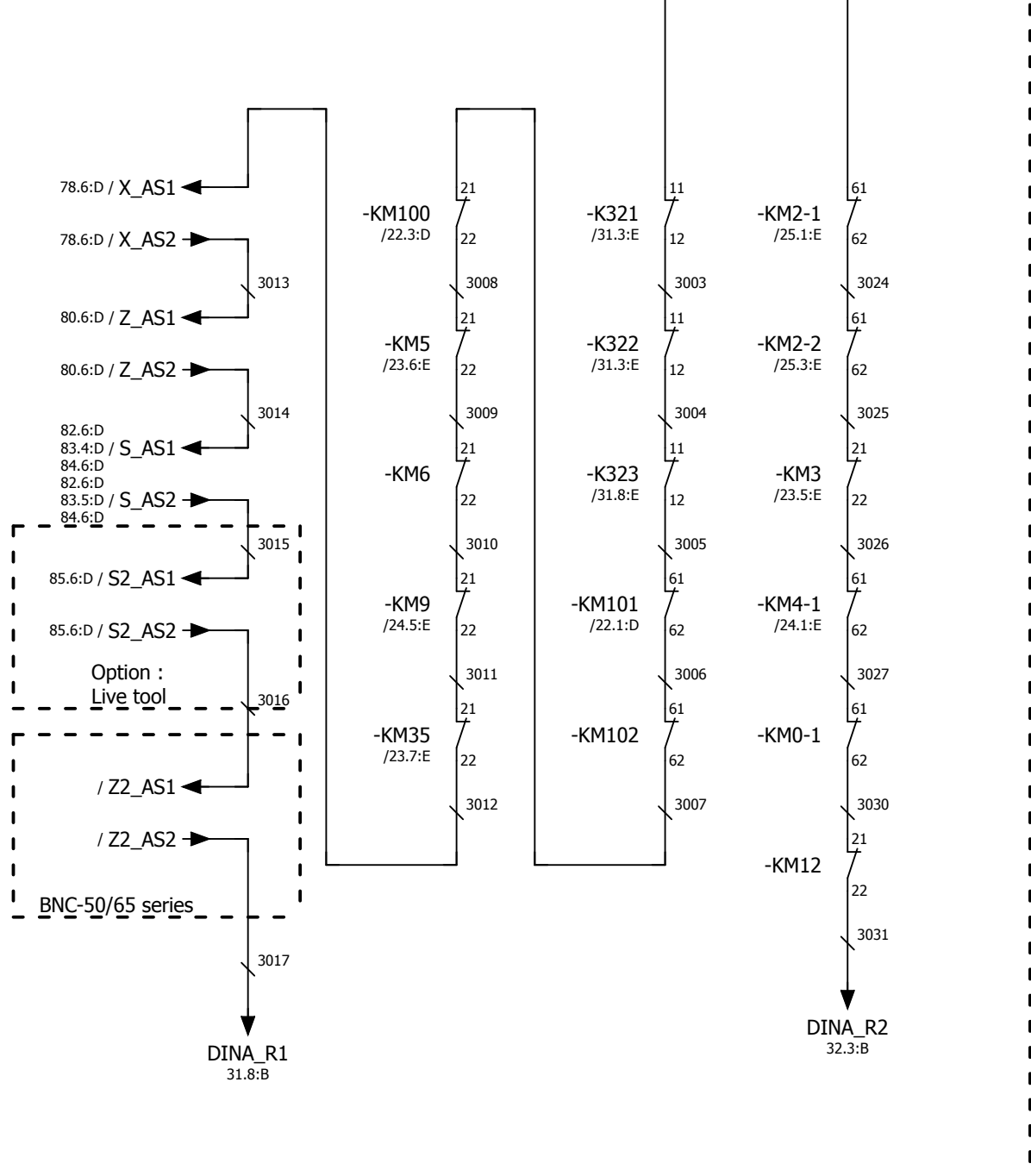
ENABLE CIRCUIT CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	29
Editor	Vincent	Total	169

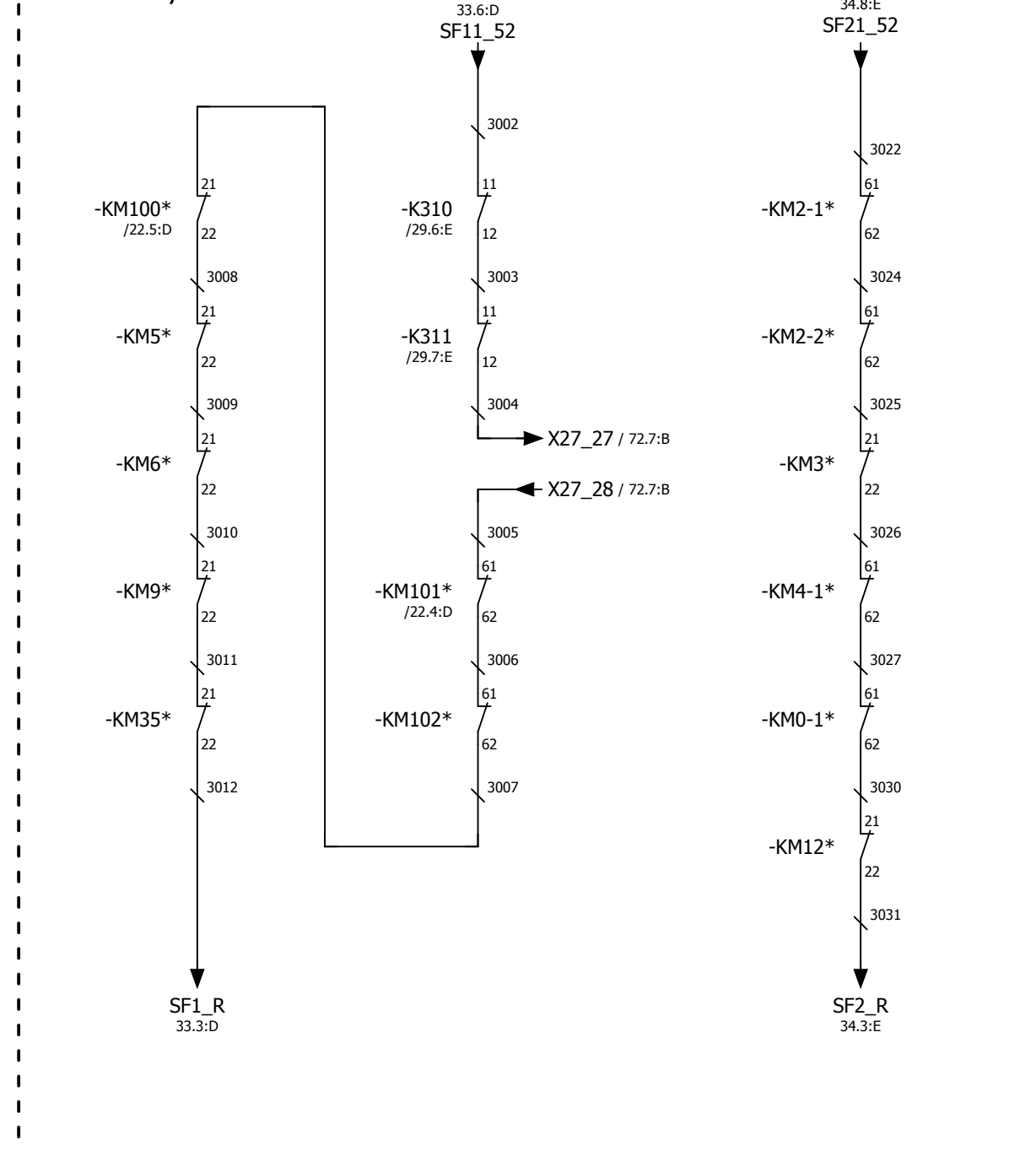
29.8:A / 24DC_1 → DCH1 → 24DC_1 / 31.1:A

* No function if fit with "E-STOP" module

DINA safeline module

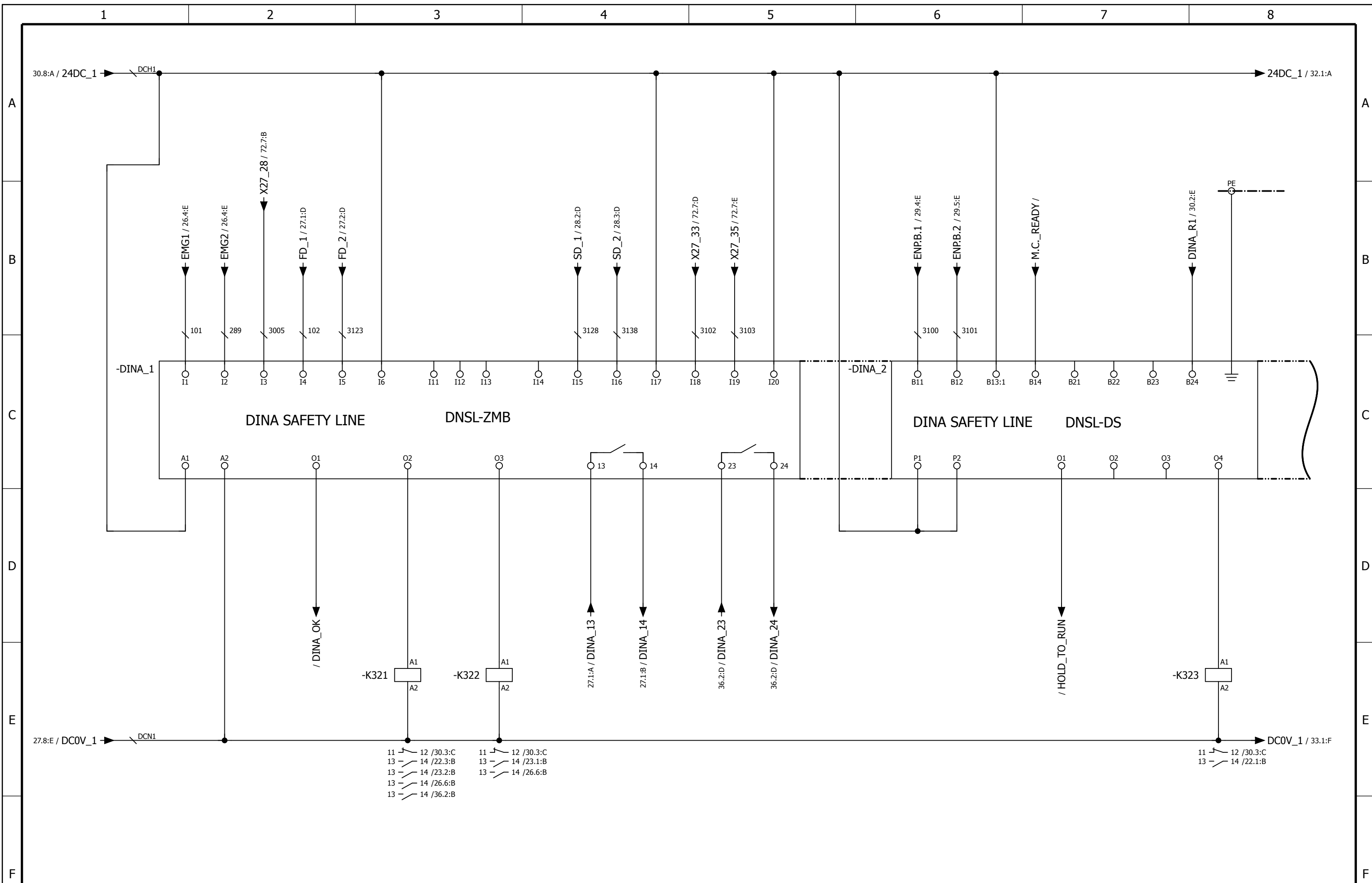


Or PILZ safety module



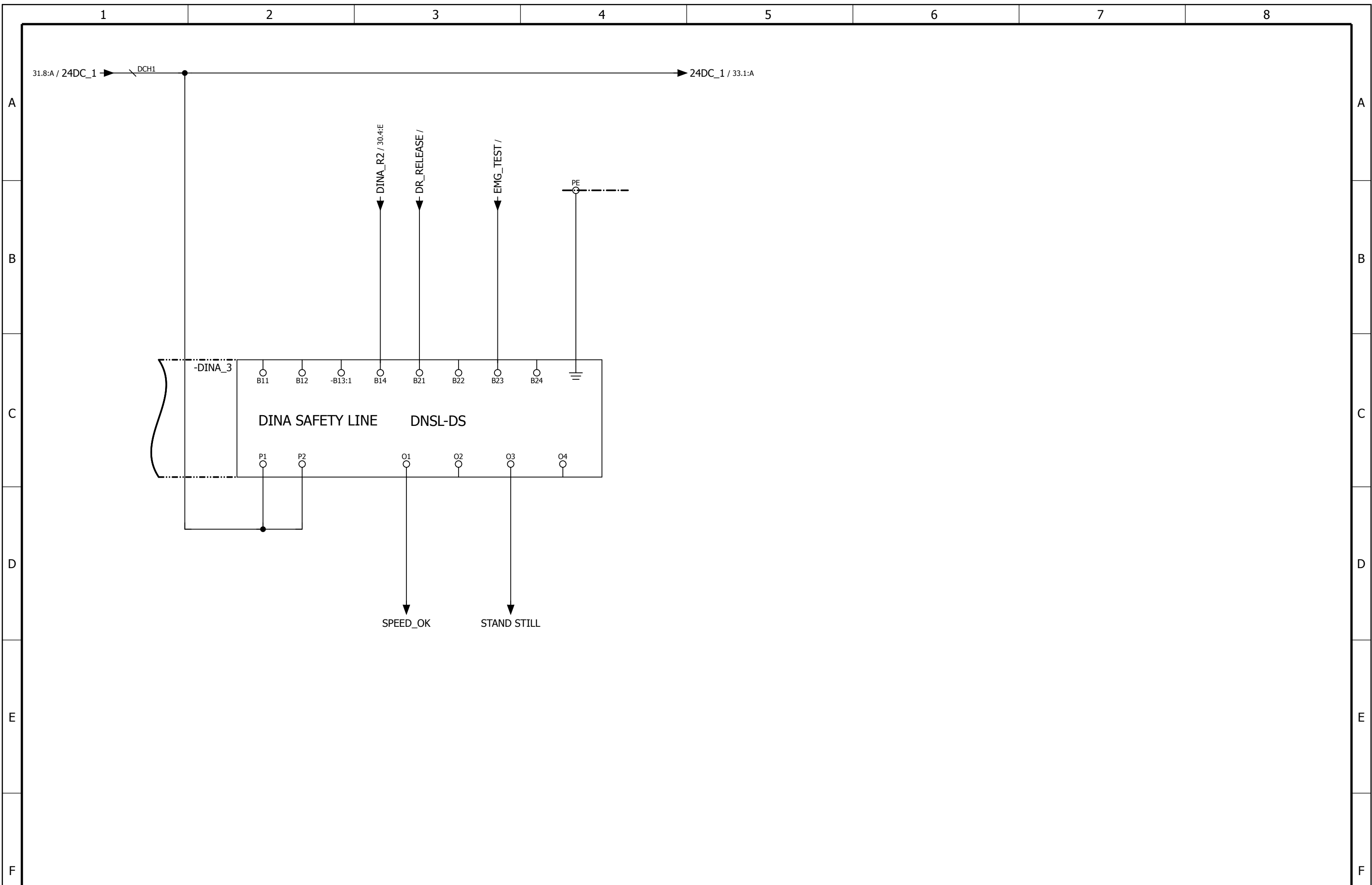
ENABLE CHECK CIRCUIT

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 30
Editor	Vincent		Total 169

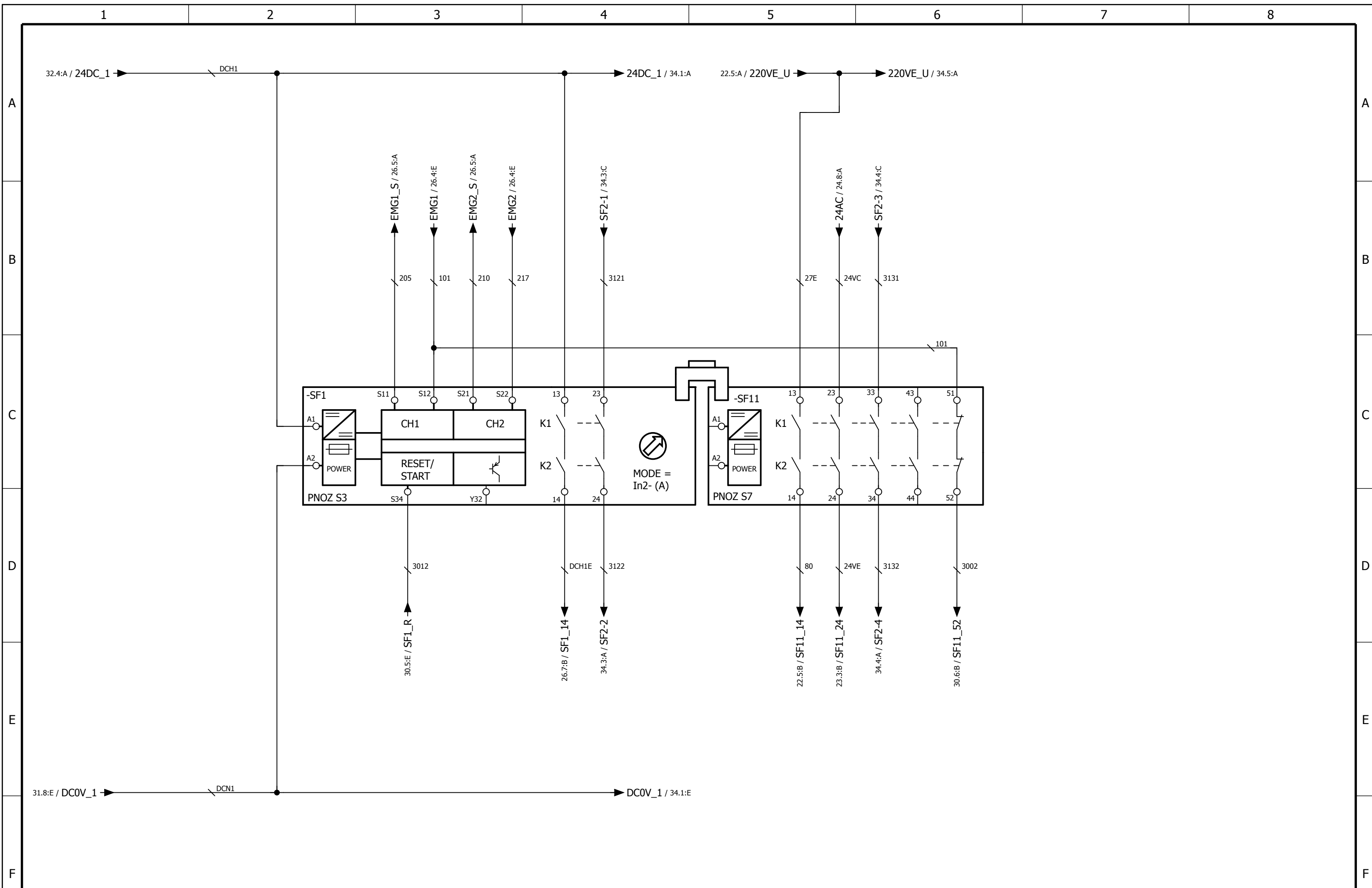


DINA SAFELINE MODULE CONNECTION - 1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 31
Editor	Vincent		Total 169

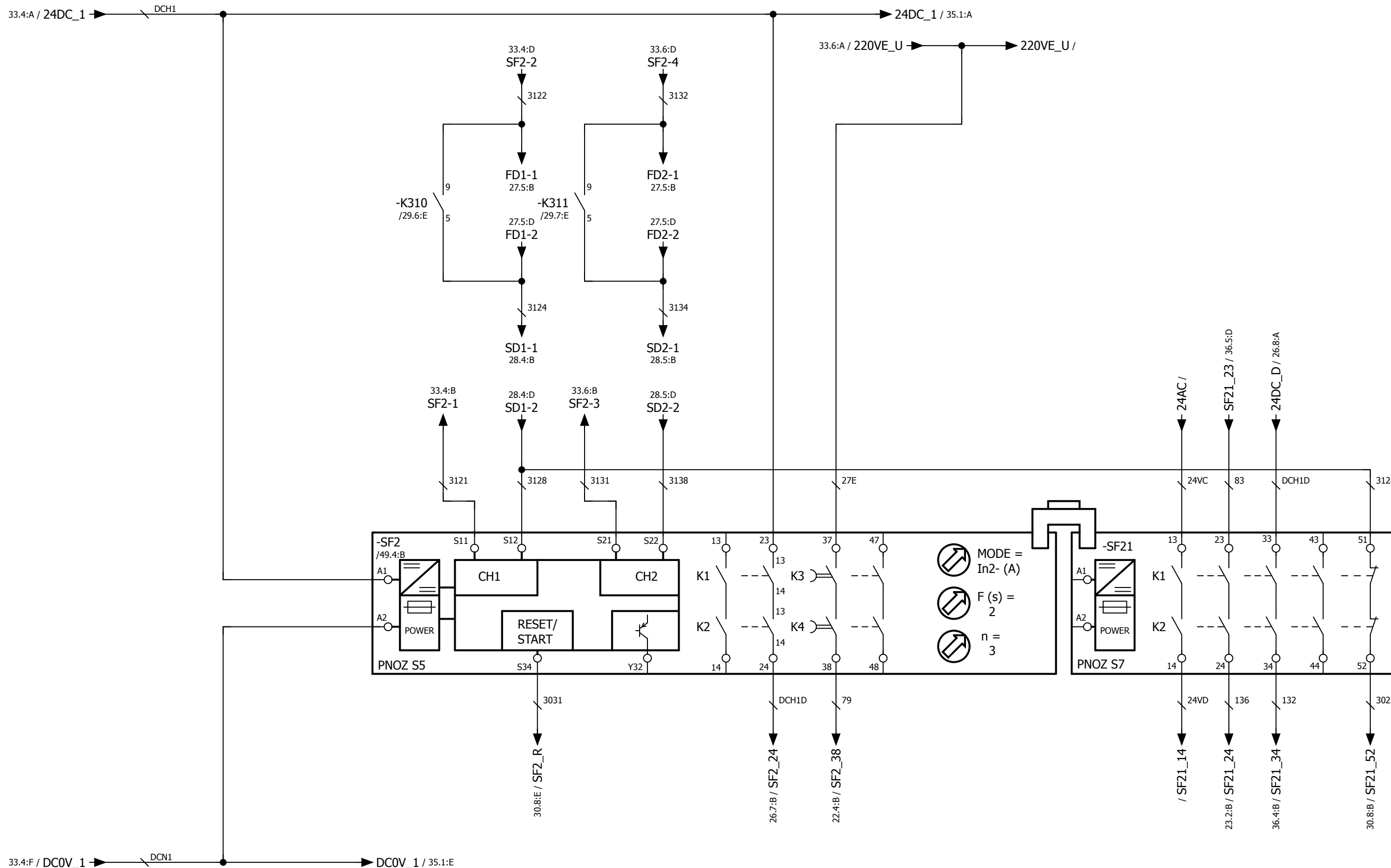


Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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PILZ SAFETY MODULE CONNECTION - 1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	33
		Total	169



PILZ SAFETY MODULE CONNECTION - 2

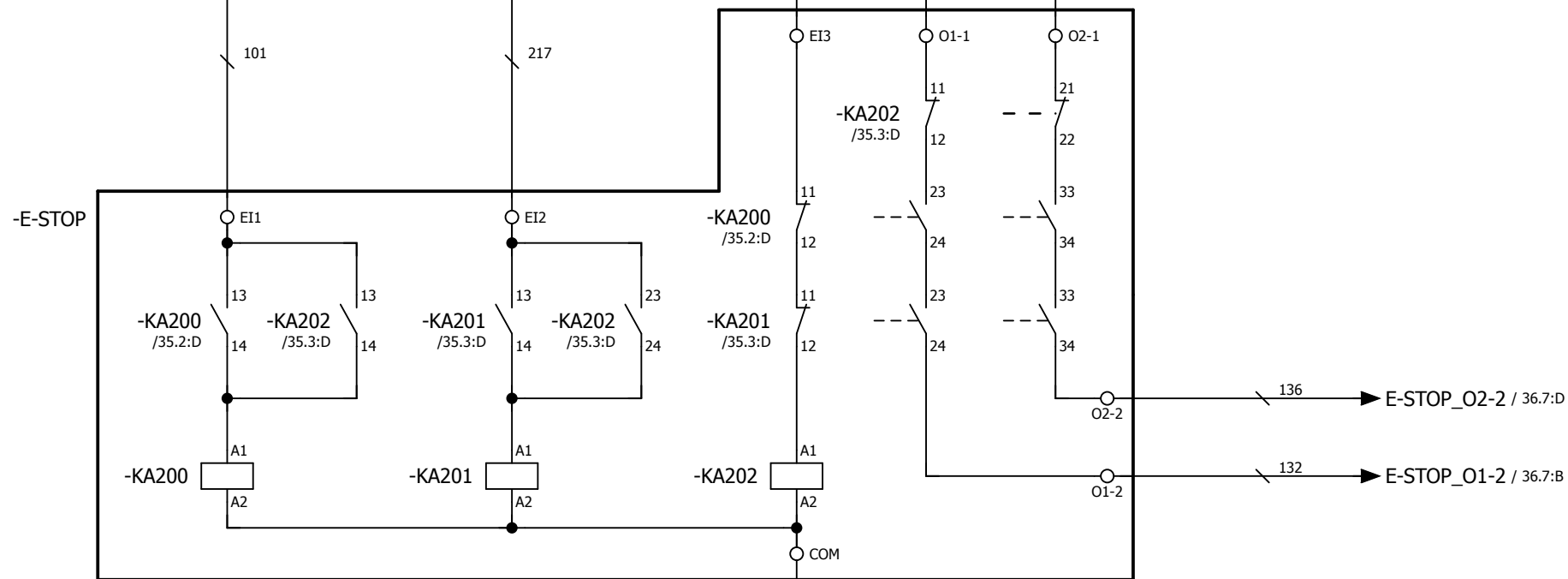
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 34
Editor	Vincent		Total 169

34.5:A / 24DC_1 → DCH1 → 24DC_1 / 36.1:A

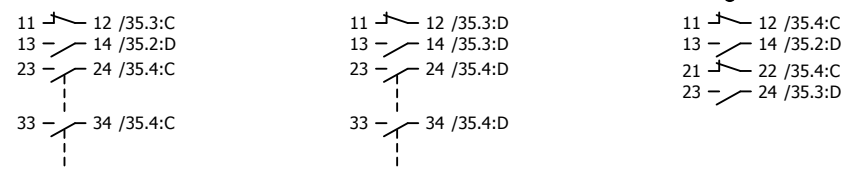
26.4:E
EMG1

26.4:E
EMG2

36.7:D
E-STOP_O2-1

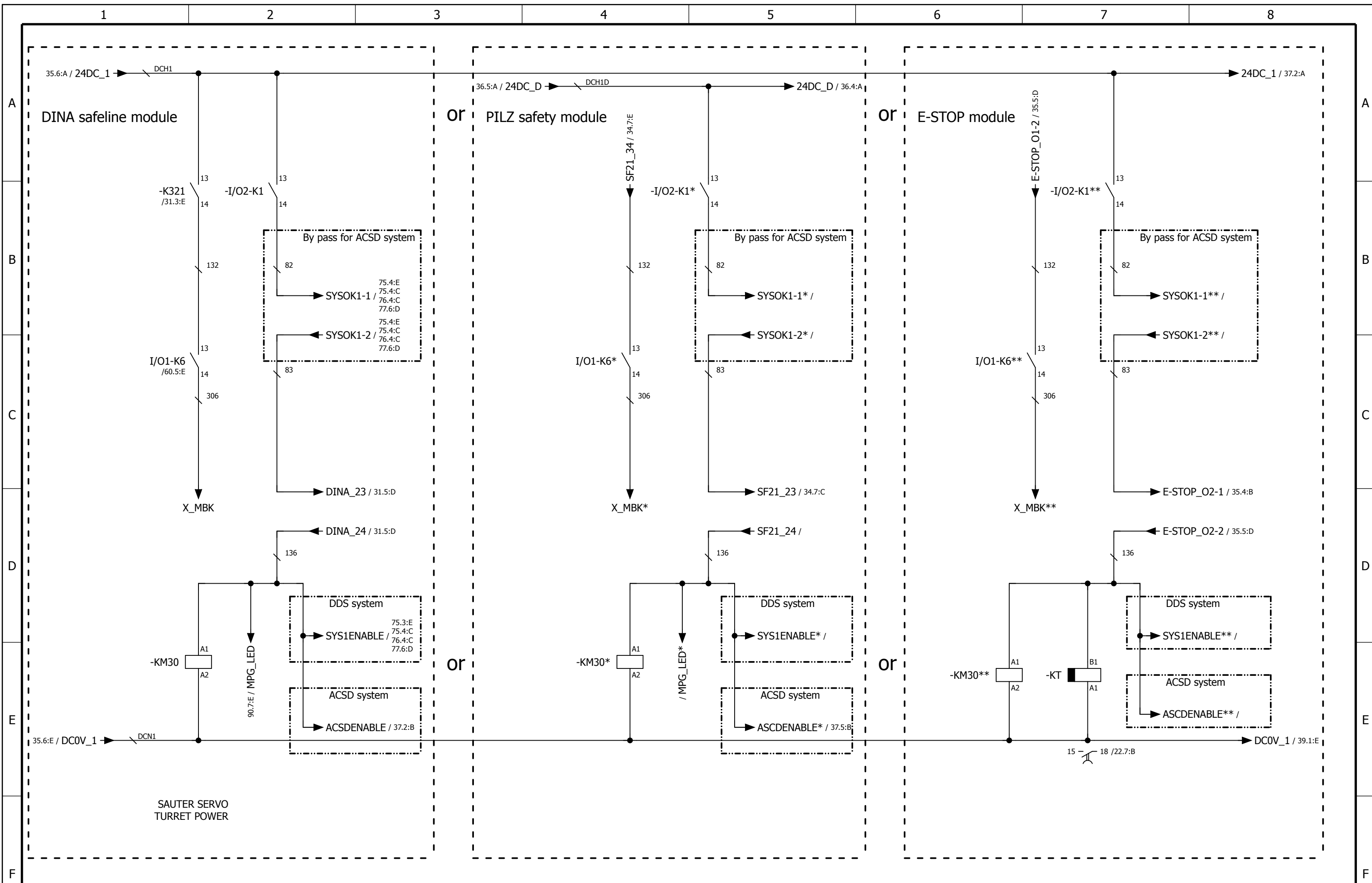


34.2:E / DCOV_1 → DCN1 → DCOV_1 / 36.1:E



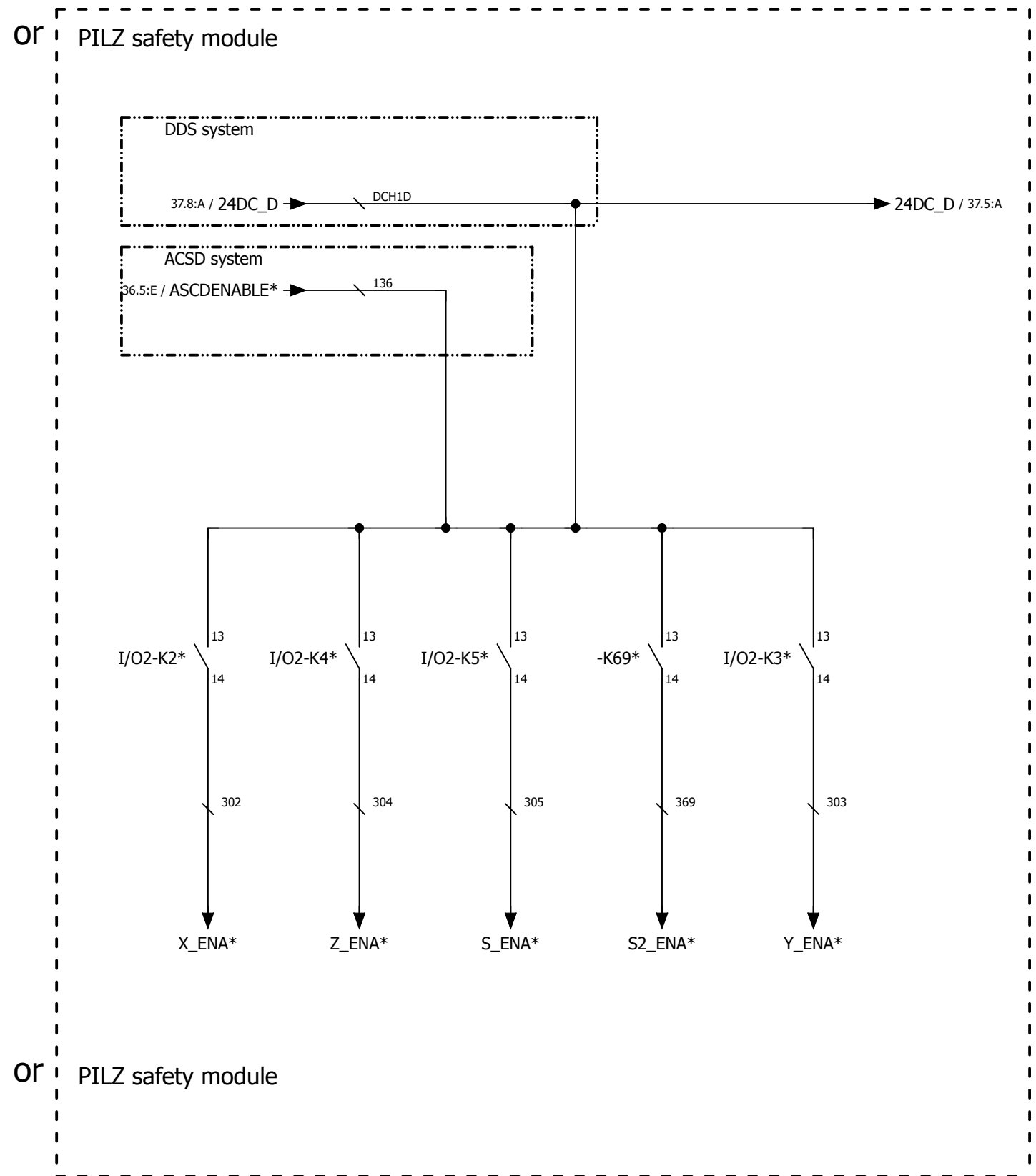
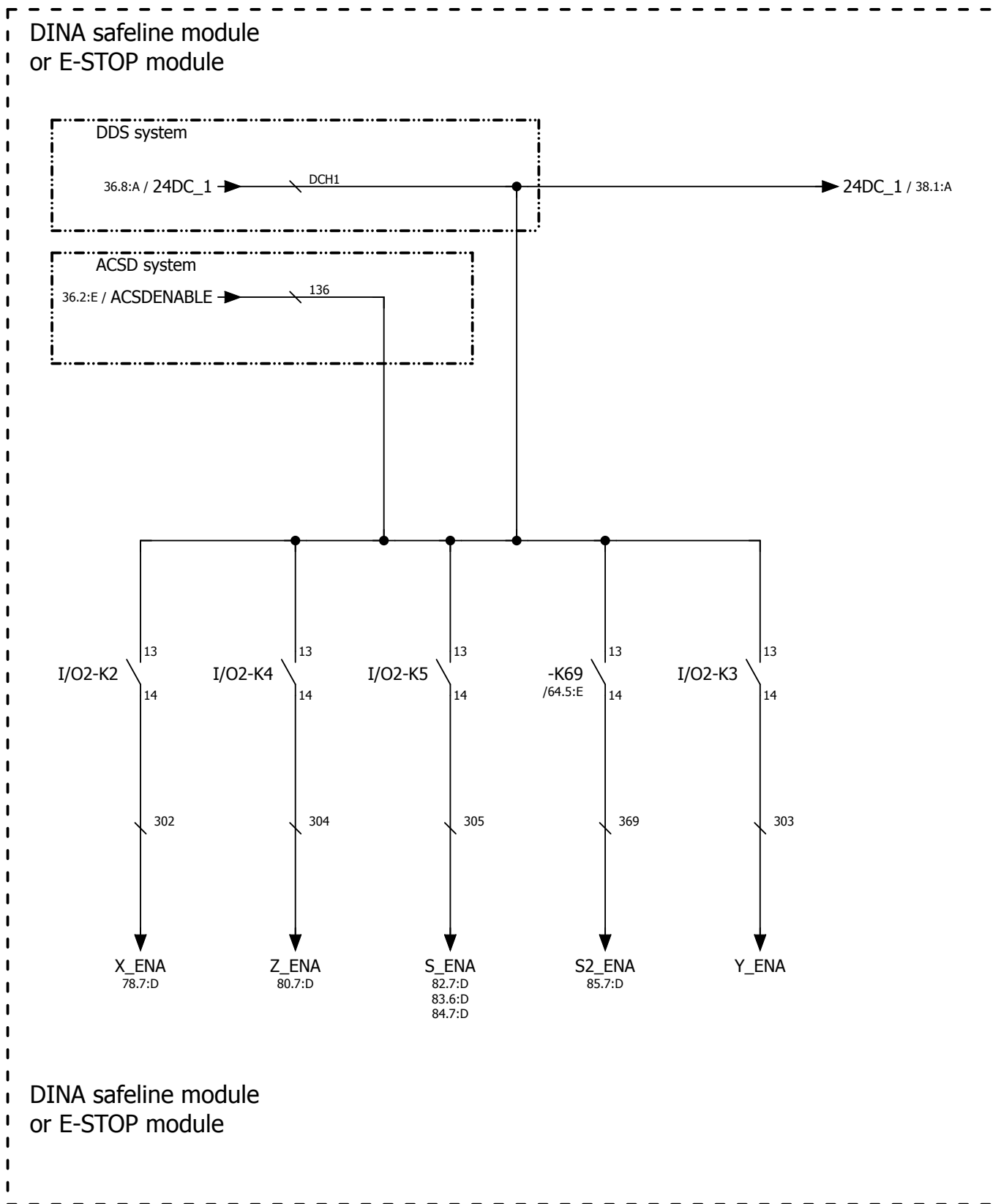
E-STOP MODULE CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	35
Date	2013.05.17			Total	169
Editor	Vincent				



DIRVE SYSTEM ENABLE CONTROL CIRCUIT - 1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 36
Editor	Vincent		Total 169

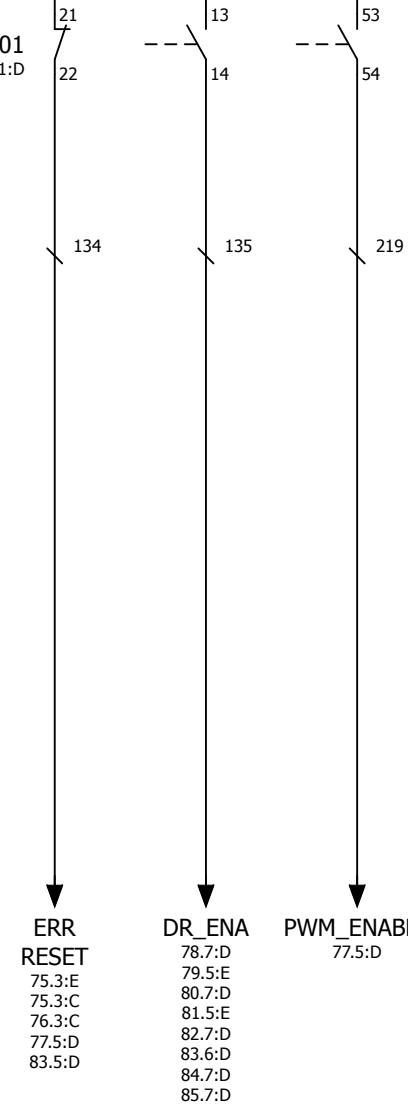


DIRVE SYSTEM ENABLE CONTROL CIRCUIT - 2

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	37
		Total	169

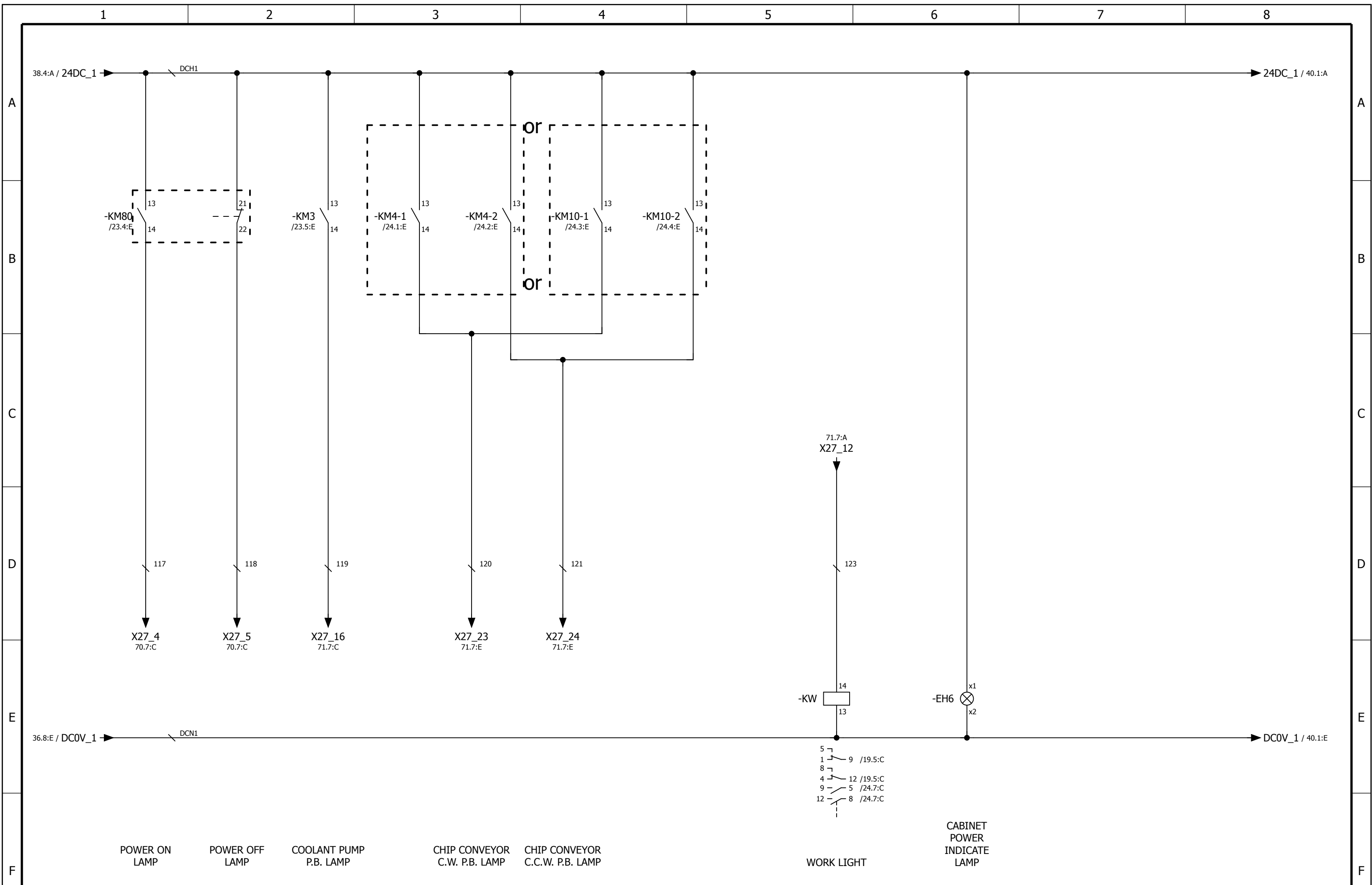
37.4:A / 24DC_1 → DCH1 → 24DC_1 / 39.1:A

-KM101
/22.1:D



DIRVE SYSTEM ENABLE CONTROL CIRCUIT - 3

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	38
Date	2013.05.17			Total	169
Editor	Vincent				



POWER ON LAMP

POWER OFF LAMP

COOLANT PUMP P.B. LAMP

CHIP CONVEYOR C.W. P.B. LAMP

CHIP CONVEYOR C.C.W. P.B. LAMP

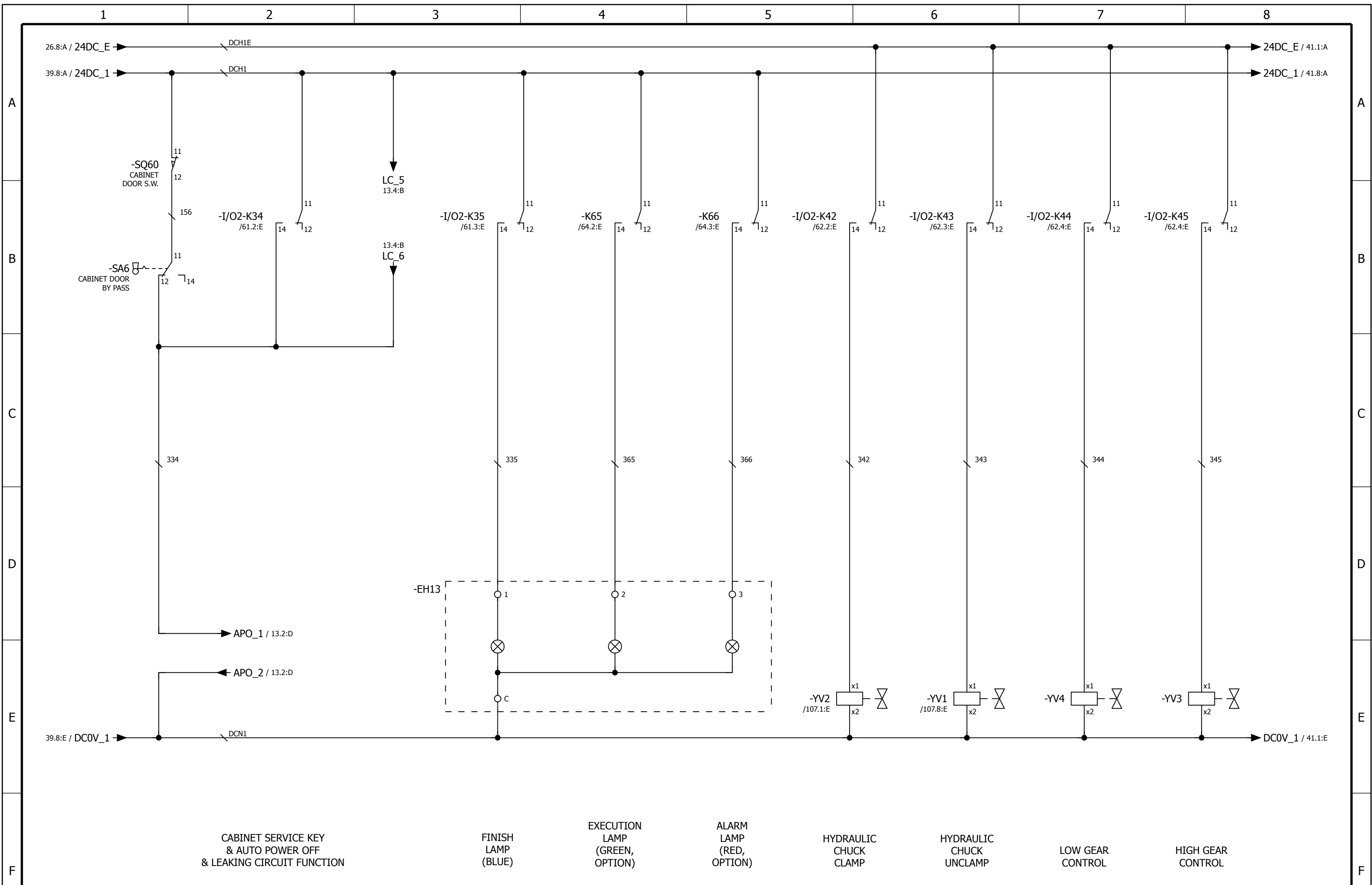
WORK LIGHT

CABINET POWER INDICATE LAMP



24V DC CONTROL CIRCUIT - 1

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	39
Date	2013.05.17			Total	169
Editor	Vincent				



CABINET SERVICE KEY
& AUTO POWER OFF
& LEAKING CIRCUIT FUNCTION

FINISH
LAMP
(BLUE)

EXECUTION
LAMP
(GREEN,
OPTION)

ALARM
LAMP
(RED,
OPTION)

HYDRAULIC
CHUCK
CLAMP

HYDRAULIC
CHUCK
UNCLAMP

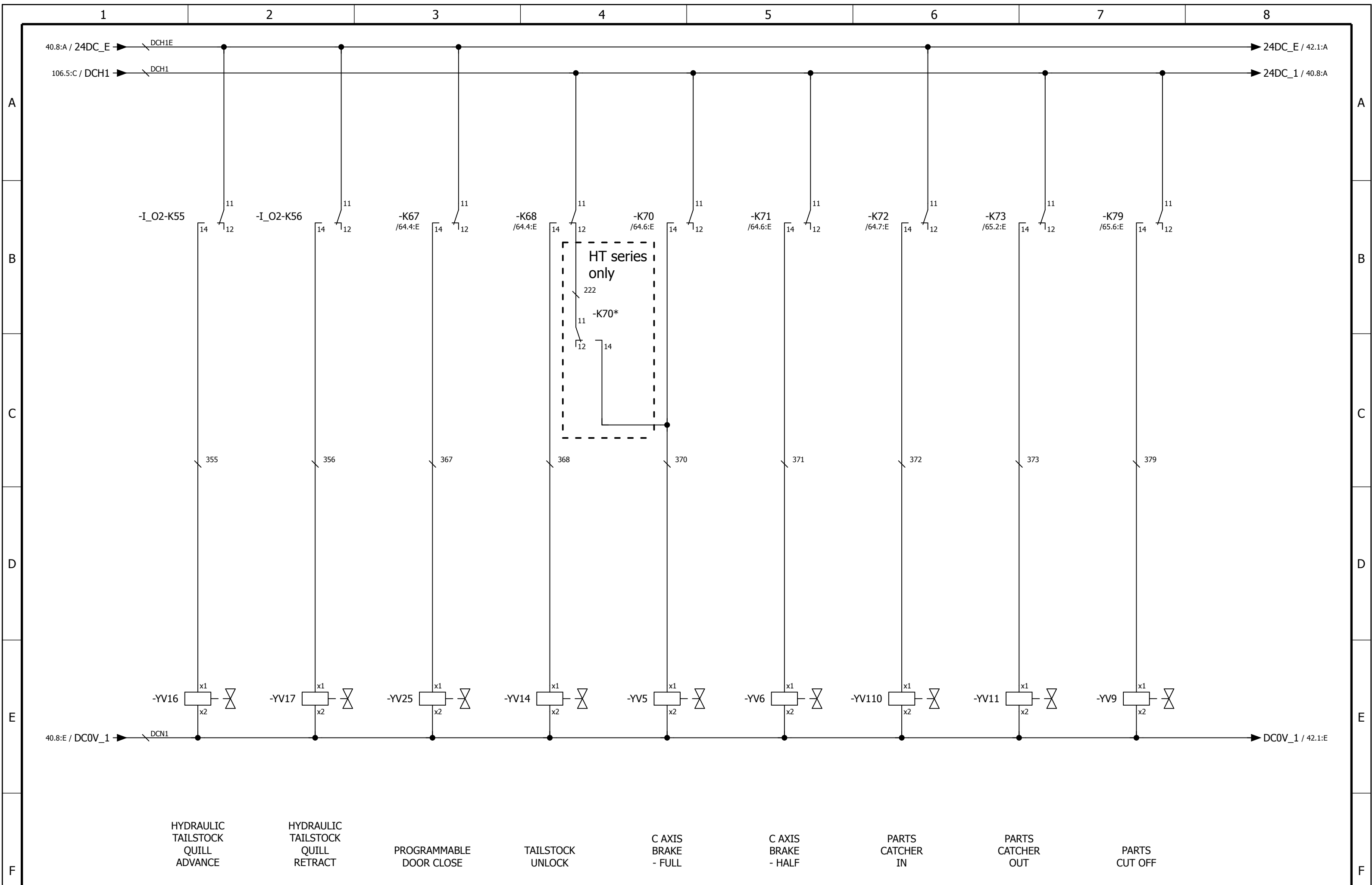
LOW GEAR
CONTROL

HIGH GEAR
CONTROL



24V DC CONTROL CIRCUIT - 2

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 40
Editor	Vincent		Total 169



HYDRAULIC
TAILSTOCK
QUILL
ADVANCE

HYDRAULIC
TAILSTOCK
QUILL
RETRACT

PROGRAMMABLE
DOOR CLOSE

TAILSTOCK
UNLOCK

C AXIS
BRAKE
- FULL

C AXIS
BRAKE
- HALF

PARTS
CATCHER
IN

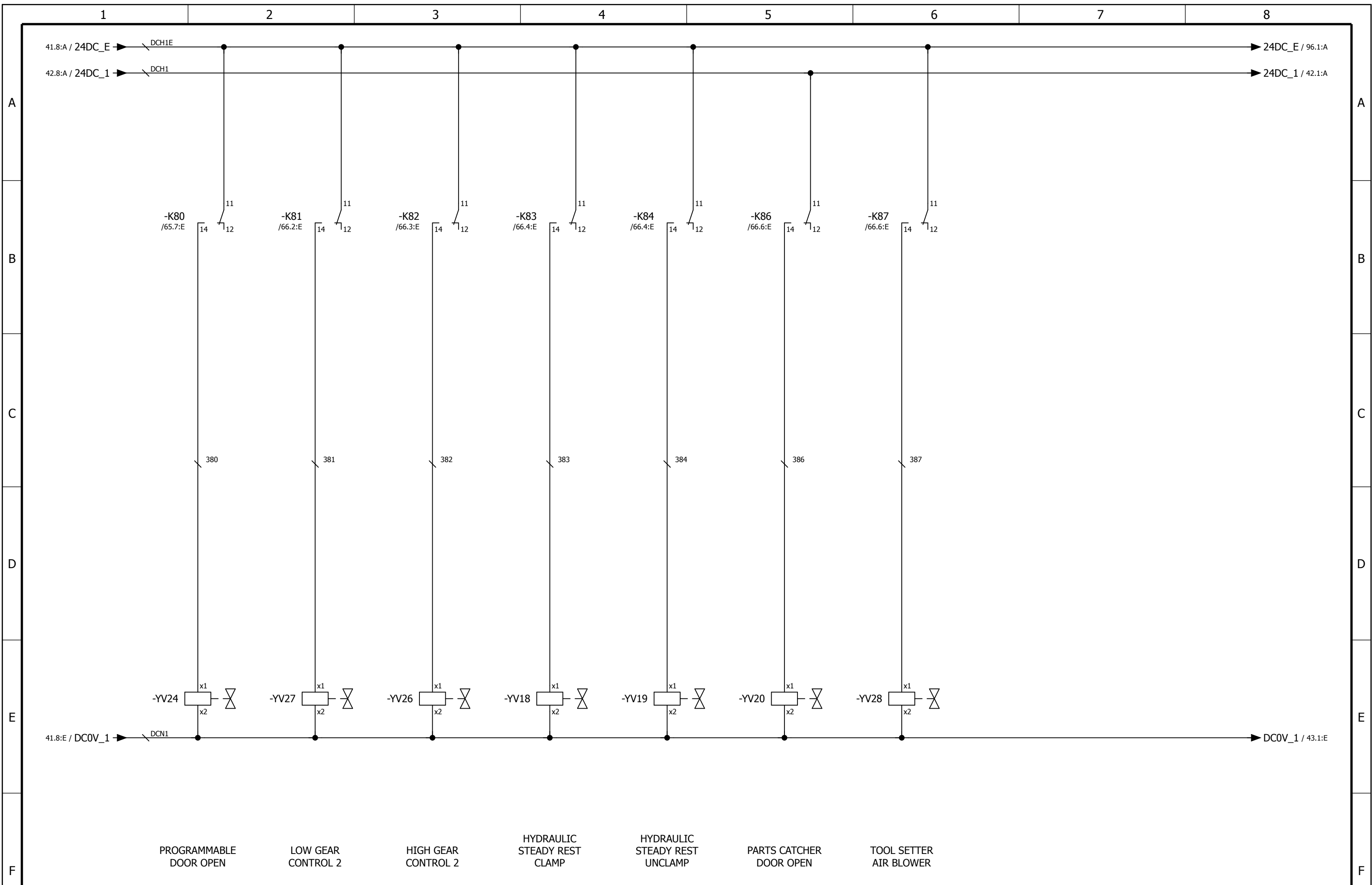
PARTS
CATCHER
OUT

PARTS
CUT OFF



24V DC CONTROL CIRCUIT - 3

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 41
Editor	Vincent		Total 169



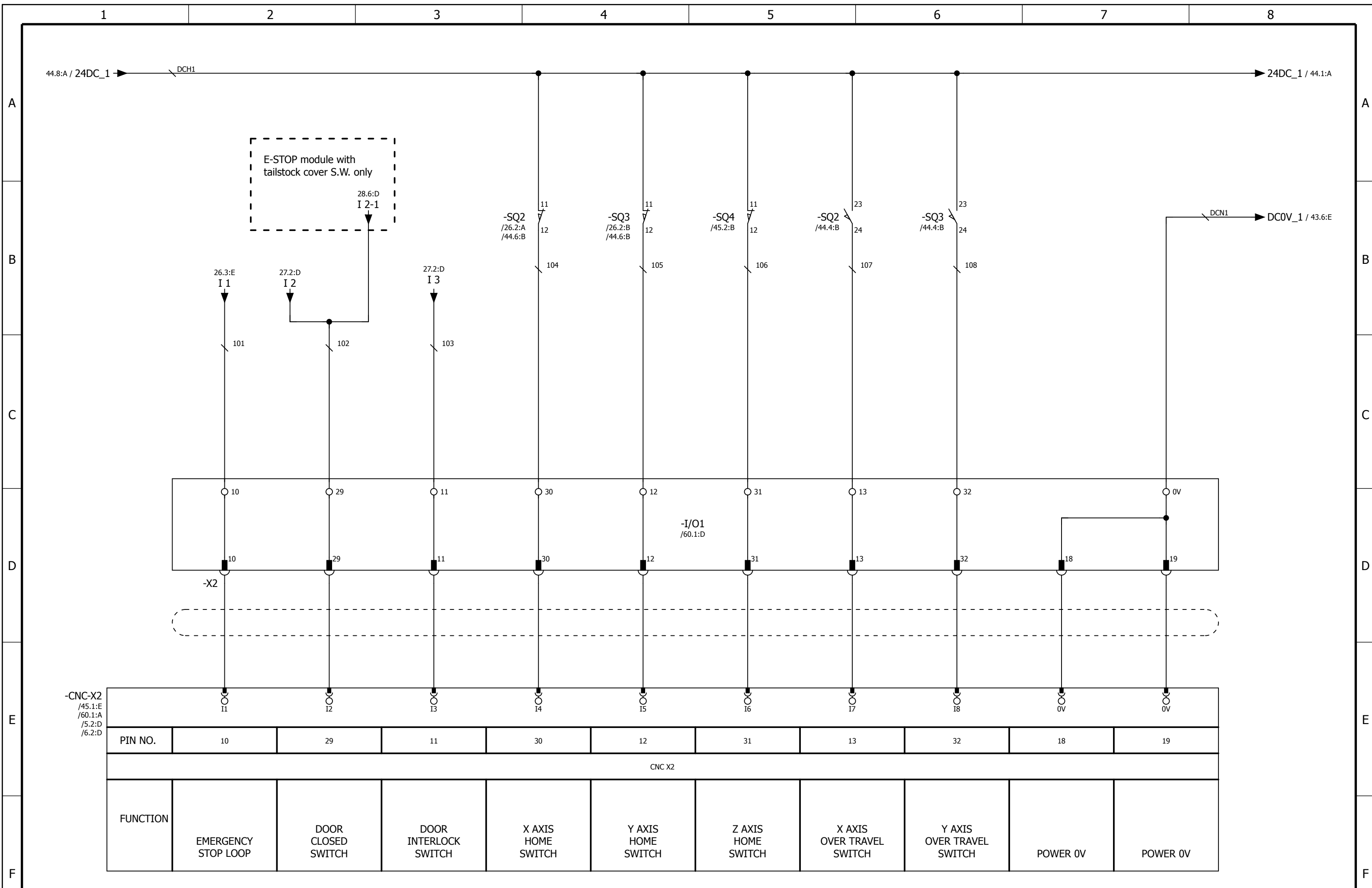
24V DC CONTROL CIRCUIT - 4

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	42
		Total	169



24V DC CONTROL CIRCUIT - 5

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	43
Date	2013.05.17			Total	169
Editor	Vincent				



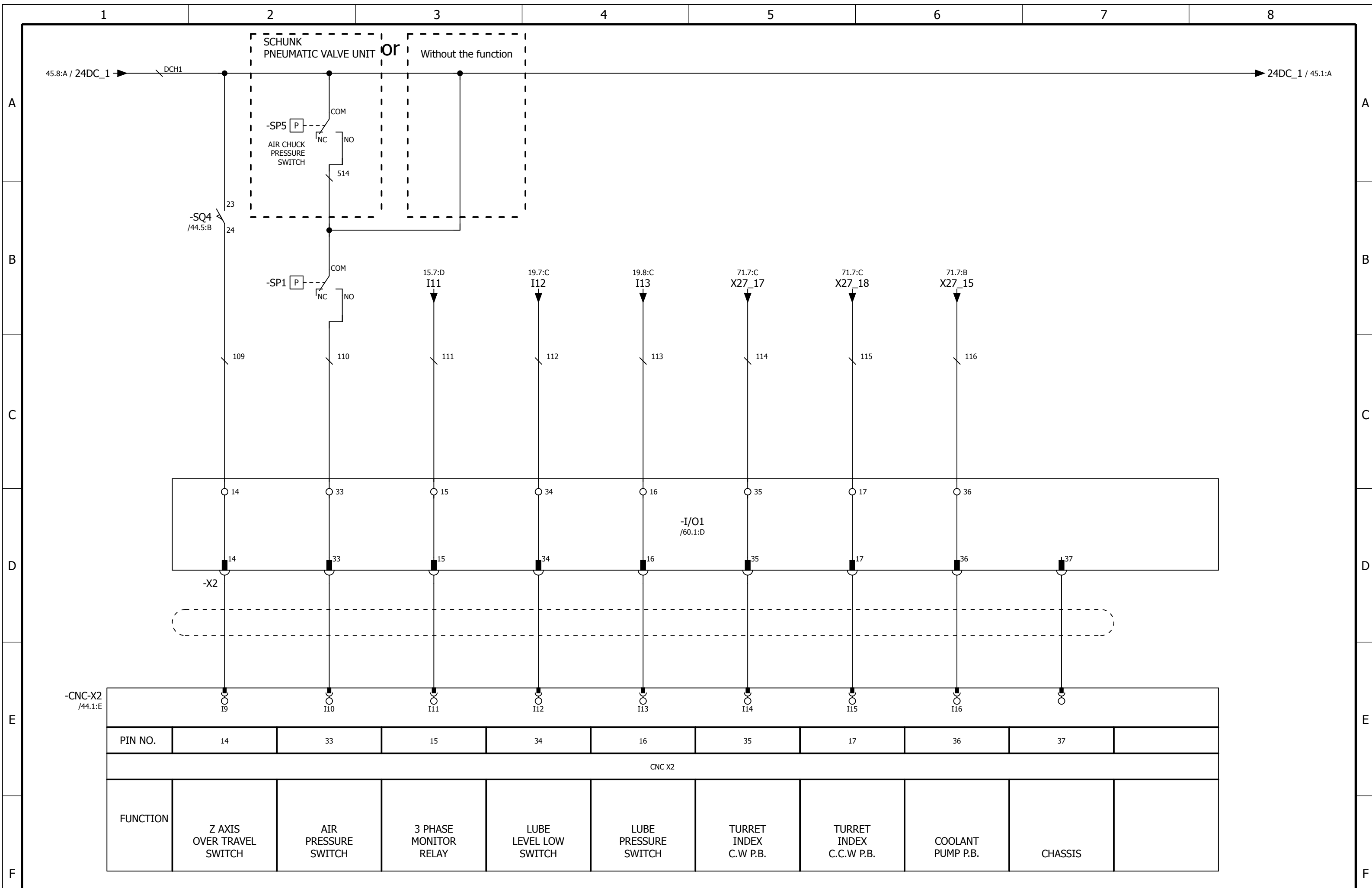
-CNC-X2
/45.1:E
/60.1:A
/5.2:D
/6.2:D

	10	29	11	30	12	31	13	32	18	19
PIN NO.	10	29	11	30	12	31	13	32	18	19
CNC X2										
FUNCTION	EMERGENCY STOP LOOP	DOOR CLOSED SWITCH	DOOR INTERLOCK SWITCH	X AXIS HOME SWITCH	Y AXIS HOME SWITCH	Z AXIS HOME SWITCH	X AXIS OVER TRAVEL SWITCH	Y AXIS OVER TRAVEL SWITCH	POWER 0V	POWER 0V



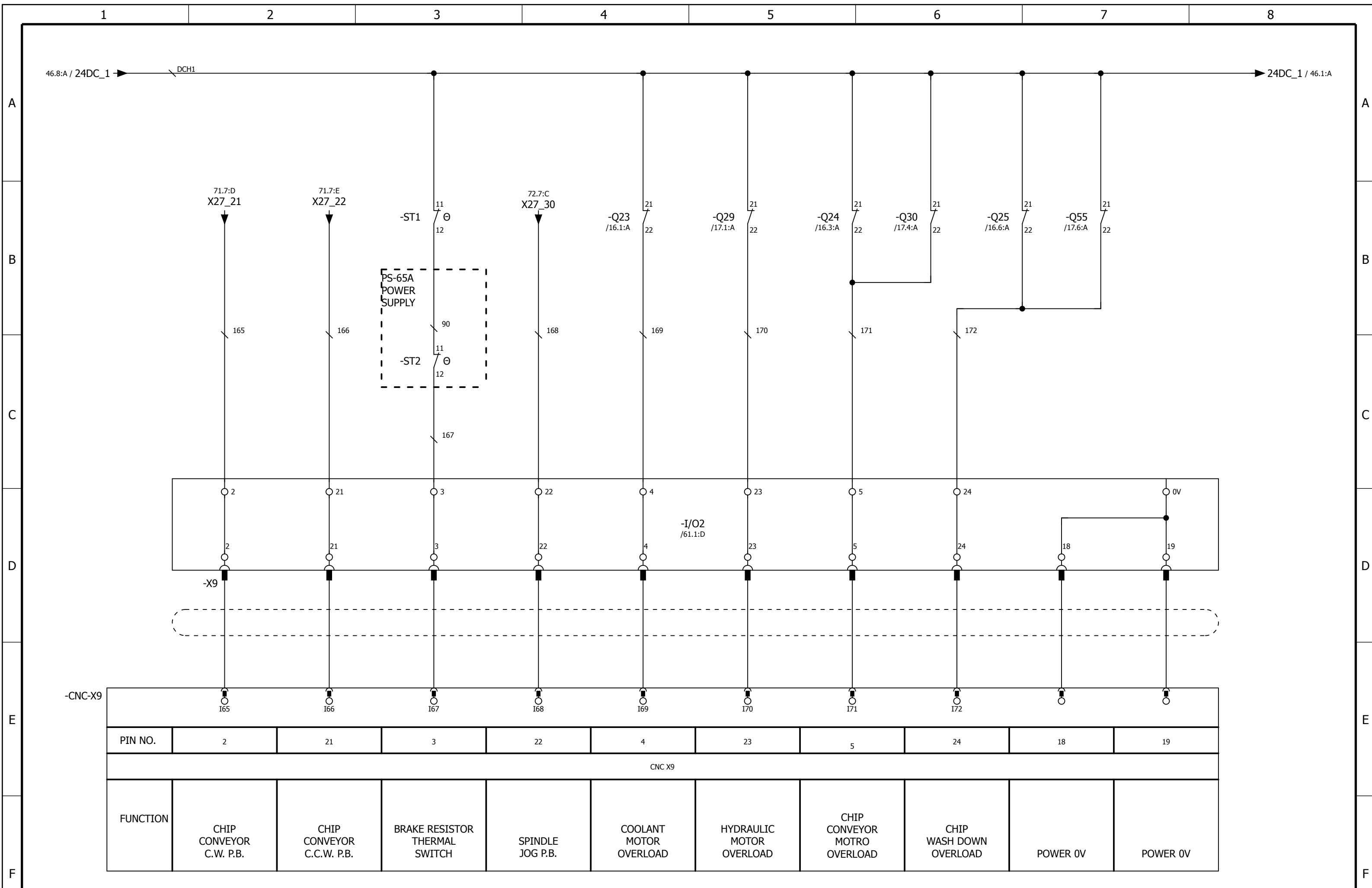
PLC INPUT I1~I8

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	44
		Total	169



PLC INPUT I9~I16

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	45
		Total	169



-CNC-X9

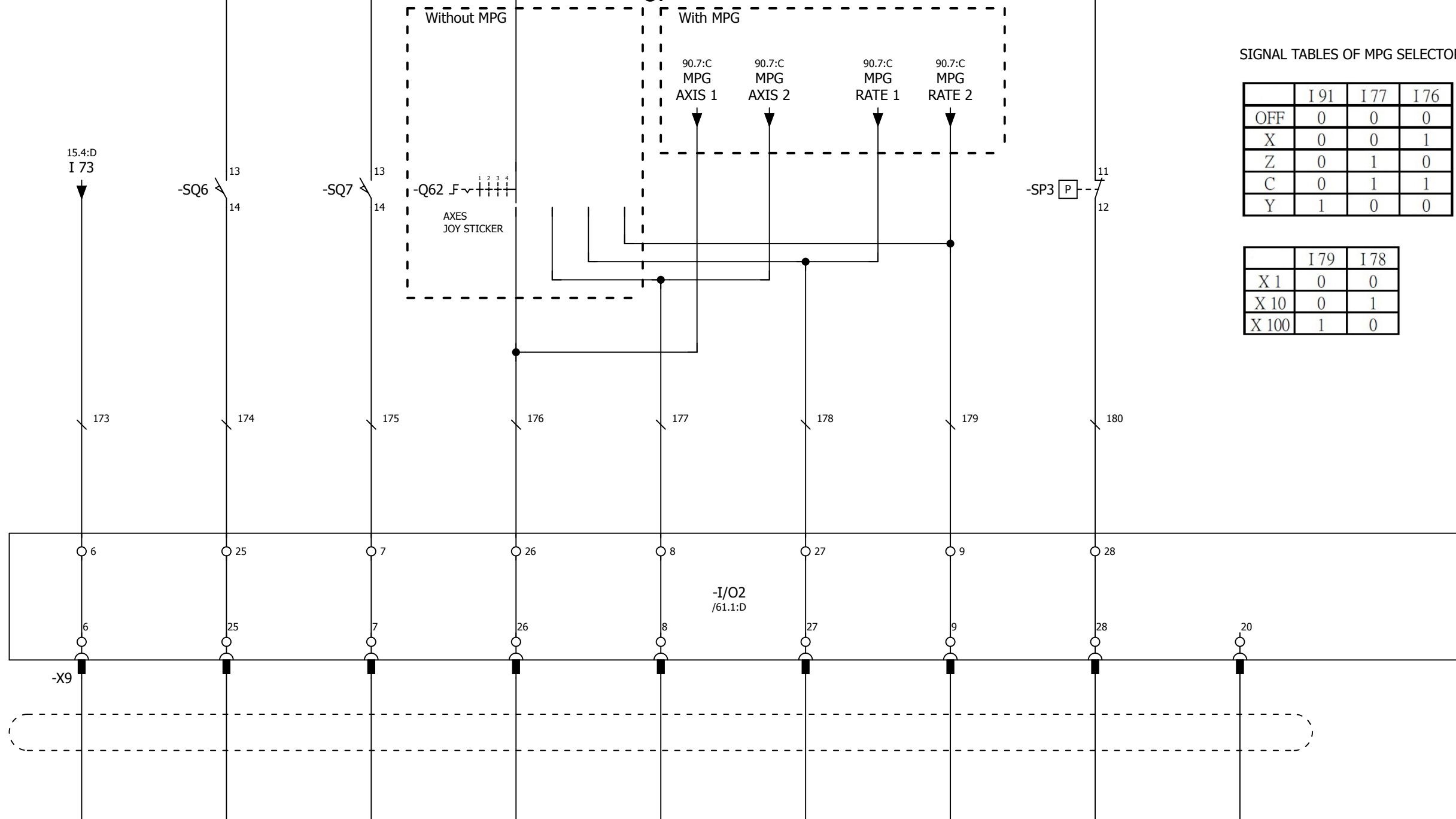
	2	21	3	22	4	23	5	24	18	19
PIN NO.	2	21	3	22	4	23	5	24	18	19
	CNC X9									
FUNCTION	CHIP CONVEYOR C.W. P.B.	CHIP CONVEYOR C.C.W. P.B.	BRAKE RESISTOR THERMAL SWITCH	SPINDLE JOG P.B.	COOLANT MOTOR OVERLOAD	HYDRAULIC MOTOR OVERLOAD	CHIP CONVEYOR MOTRO OVERLOAD	CHIP WASH DOWN OVERLOAD	POWER 0V	POWER 0V



PLC INPUT I65~I72

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	46
		Total	169

47.8:A / 24DC_1 → 24DC_1 / 47.1:A



SIGNAL TABLES OF MPG SELECTORS

	I 91	I 77	I 76
OFF	0	0	0
X	0	0	1
Z	0	1	0
C	0	1	1
Y	1	0	0

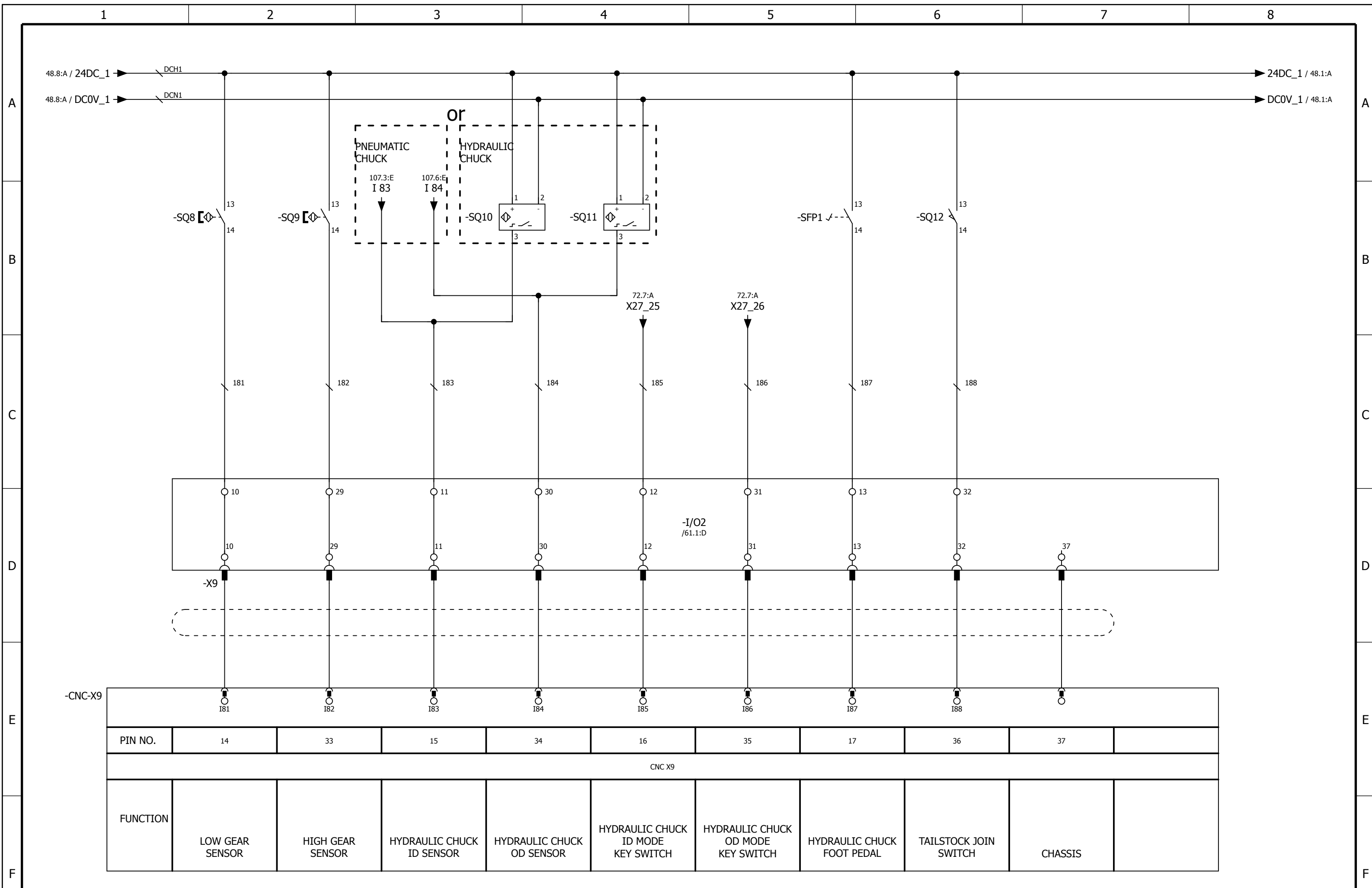
	I 79	I 78
X 1	0	0
X 10	0	1
X 100	1	0

PIN NO.	6	25	7	26	8	27	9	28	20
CNC X9									
FUNCTION	SPINDLE OIL CHILLER ALARM	CHUCK GARD SWITCH	TAILSTOCK OVER TRAVEL SWITCH	MPG AXES SELECT BIT 1 JOY STICKER X+ DIRECTION	MPG AXES SELECT BIT 2 JOY STICKER X- DIRECTION	MPG RATE SELECT BIT 1 JOY STICKER Z+ DIRECTION	MPG RATE SELECT BIT 2 JOY STICKER Z- DIRECTION	HYDRAULIC PRESSURE SWITCH	NOT USED



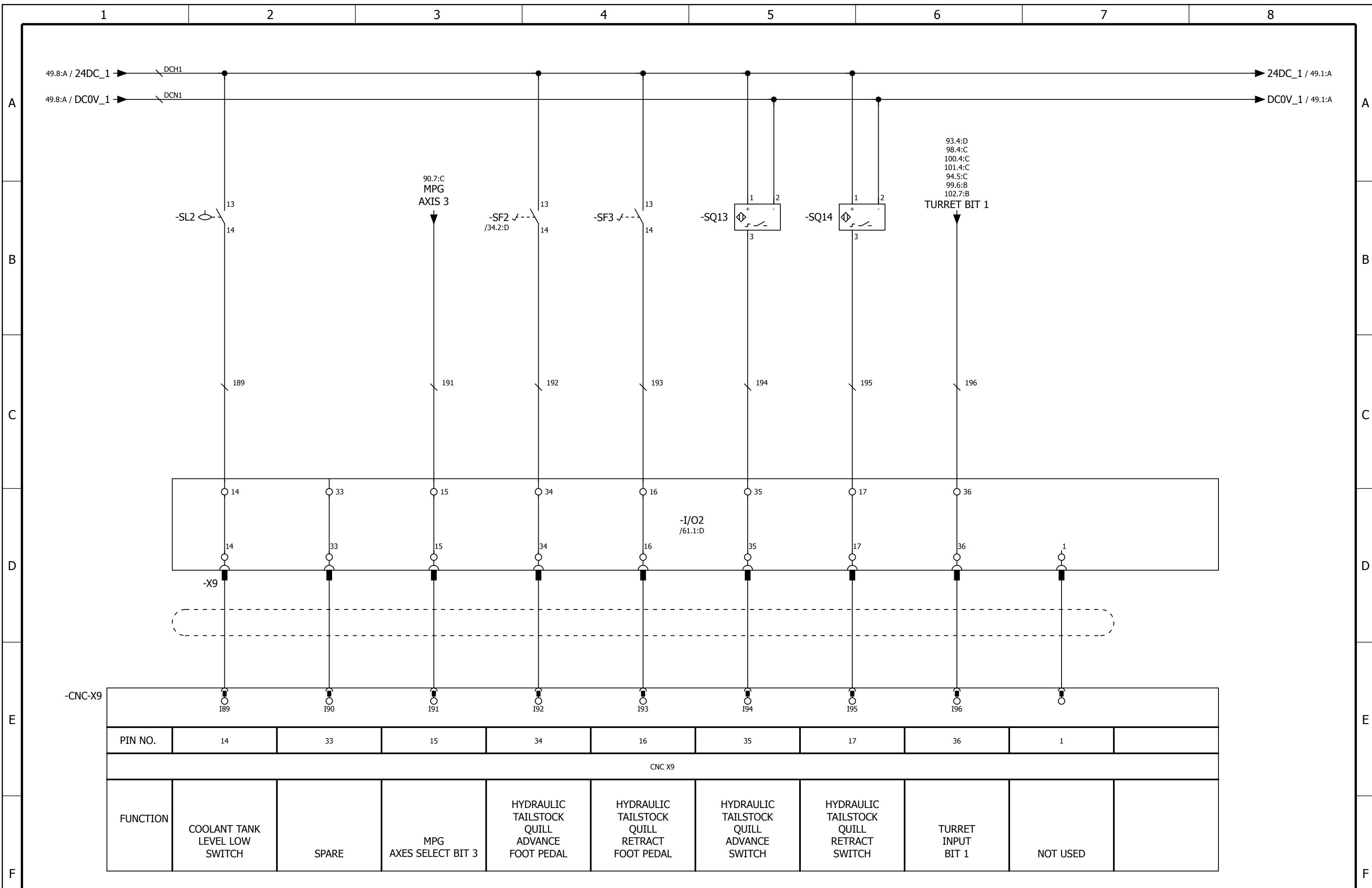
PLC INPUT I73~I80

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	47
Editor	Vincent	Total	169



PLC INPUT I81~I88

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	48
Date	2013.05.17			Total	169
Editor	Vincent				



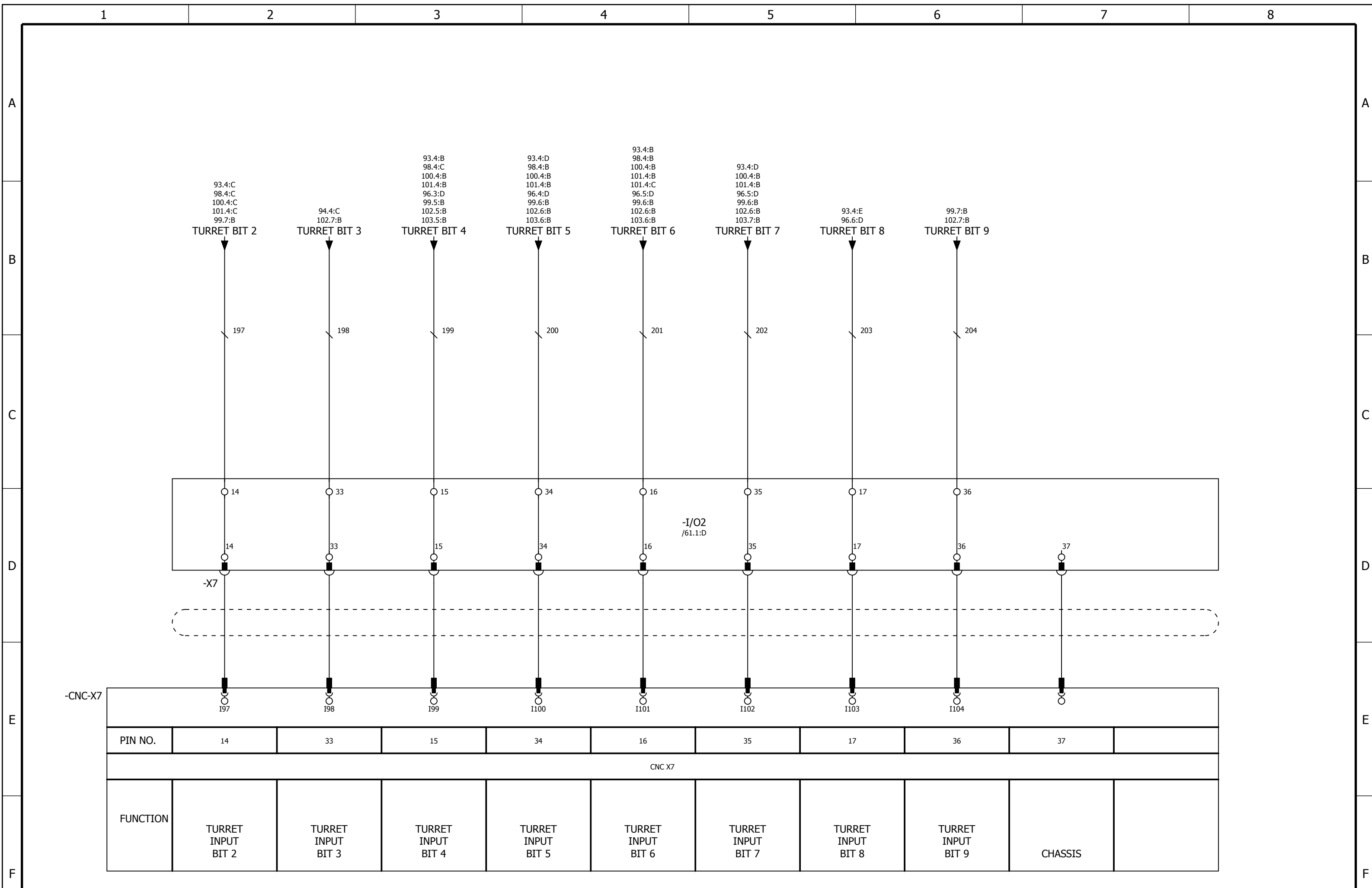
-CNC-X9

	14	33	15	34	16	35	17	36	1
PIN NO.	14	33	15	34	16	35	17	36	1
CNC X9									
FUNCTION	COOLANT TANK LEVEL LOW SWITCH	SPARE	MPG AXES SELECT BIT 3	HYDRAULIC TAILSTOCK QUILL ADVANCE FOOT PEDAL	HYDRAULIC TAILSTOCK QUILL RETRACT FOOT PEDAL	HYDRAULIC TAILSTOCK QUILL ADVANCE SWITCH	HYDRAULIC TAILSTOCK QUILL RETRACT SWITCH	TURRET INPUT BIT 1	NOT USED



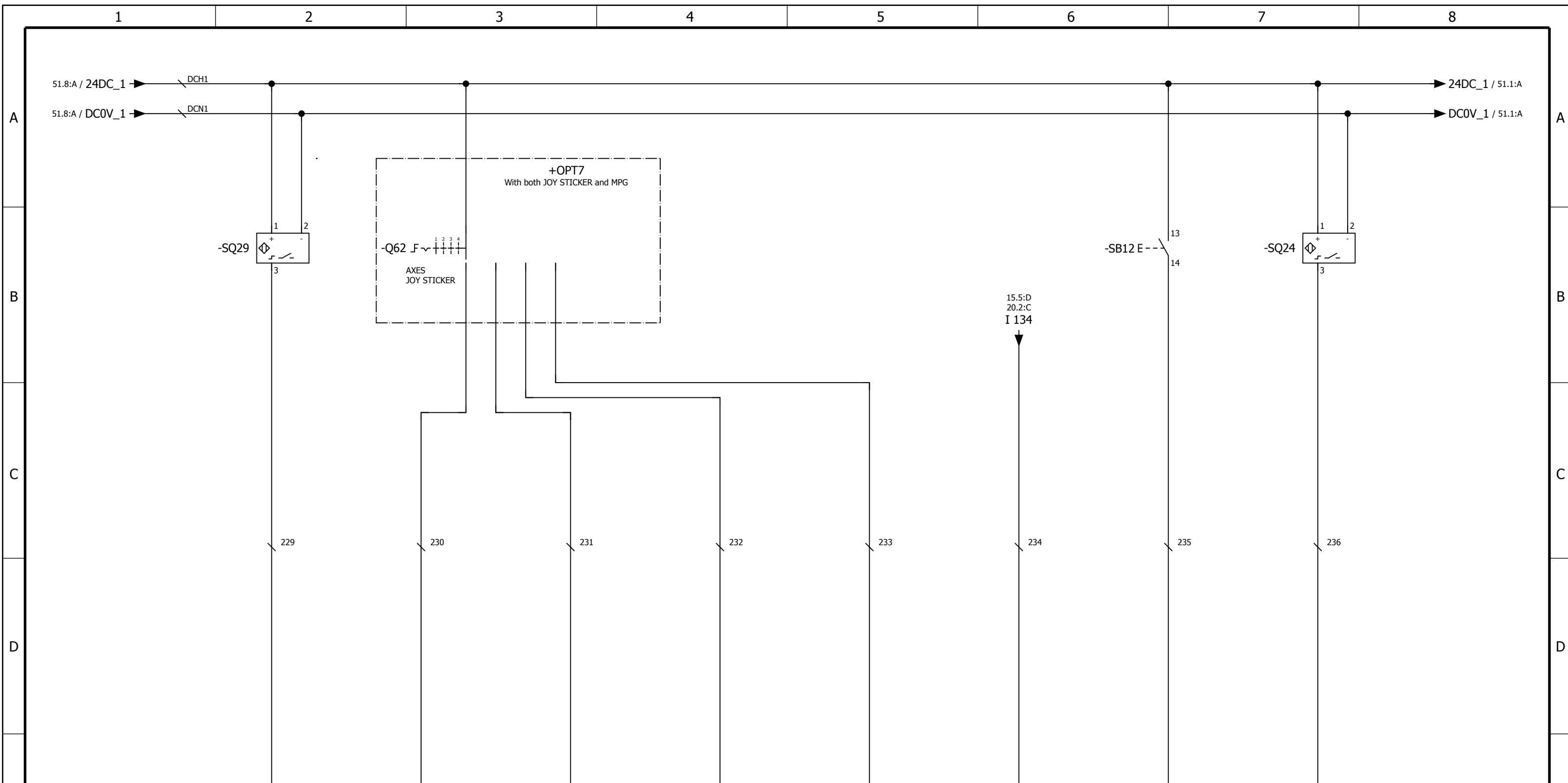
PLC INPUT I89~I96

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
Rev.	100		
Page	49		
Total	169		



PLC INPUT I97~I104

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	50
		Total	169



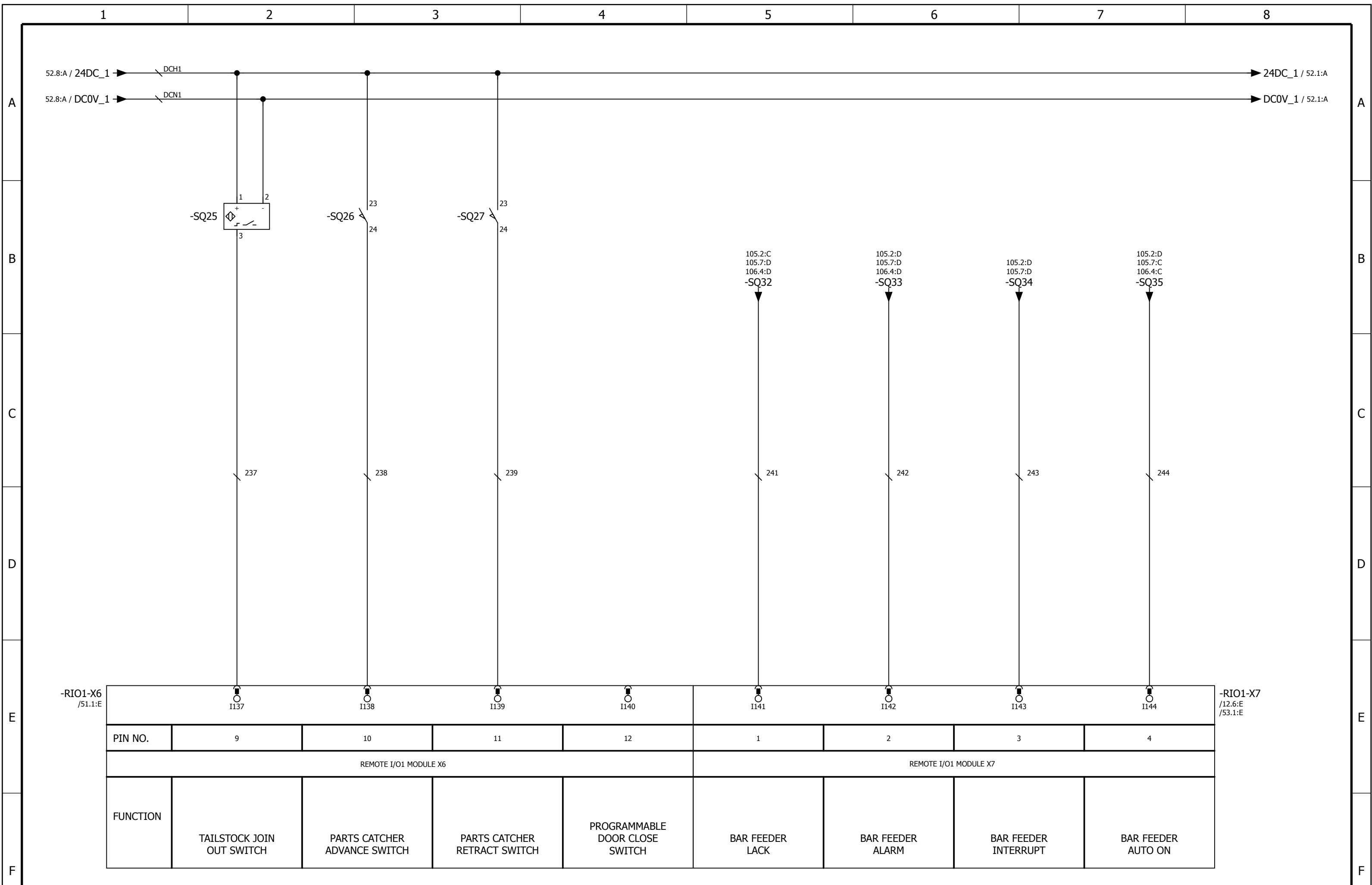
-RIO1-X6
/12.6:D
/52.1:E

	I129	I130	I131	I132	I133	I134	I135	I136
PIN NO.	1	2	3	4	5	6	7	8
REMOTE I/O1 MODULE X6								
FUNCTION	MIDDLE GEAR SENSOR	JOY STICKER X+ DIRECTION (WITH MPG)	JOY STICKER X- DIRECTION (WITH MPG)	JOY STICKER Z+ DIRECTION (WITH MPG)	JOY STICKER Z- DIRECTION (WITH MPG)	CABINET AIR CONDICONER ALARM	AUTO POWER OFF P.B.	TAILSTOCK BODY LOCK SWITCH



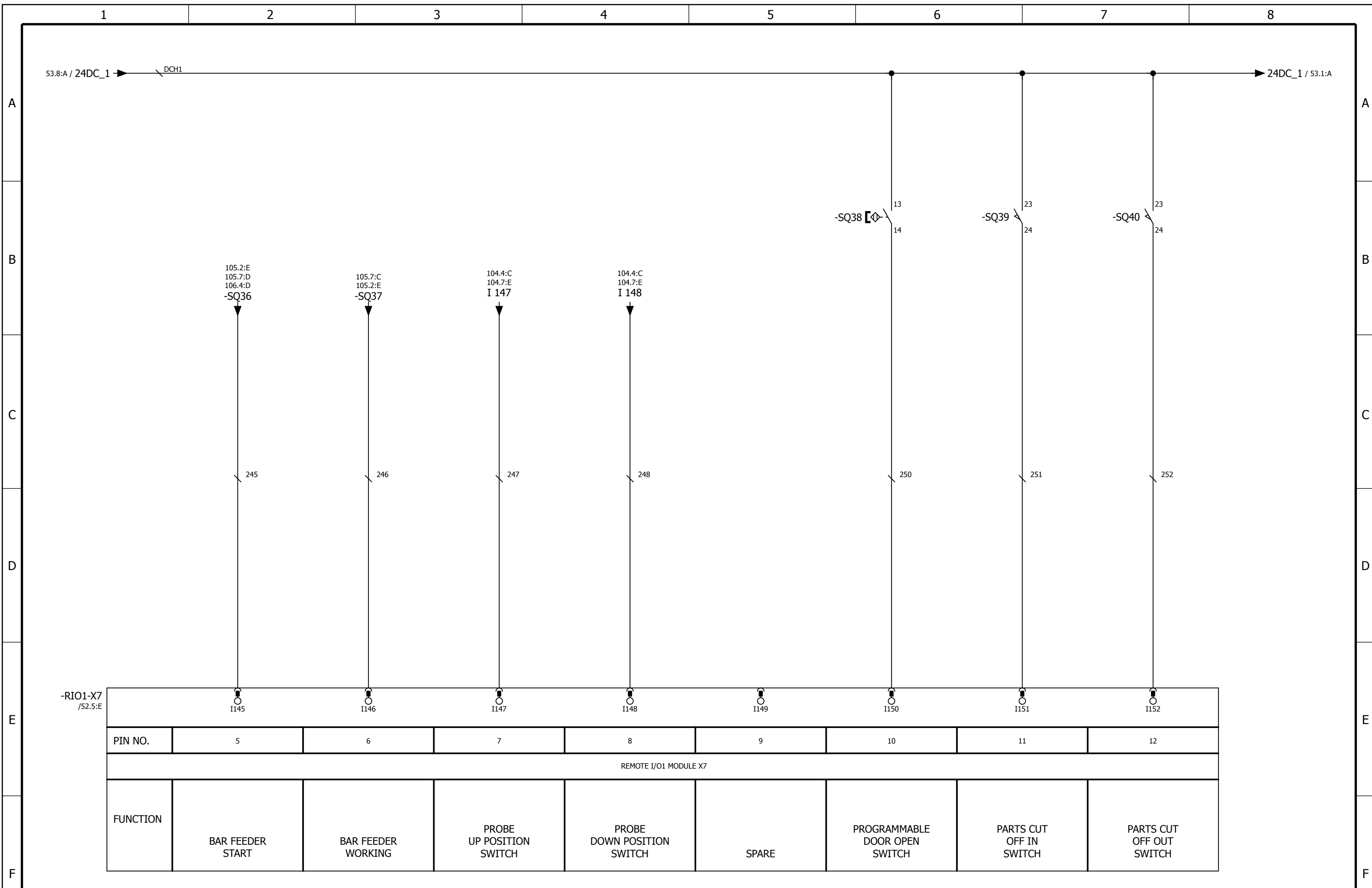
PLC INPUT I129~I136

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	51
Editor	Vincent	Total	169



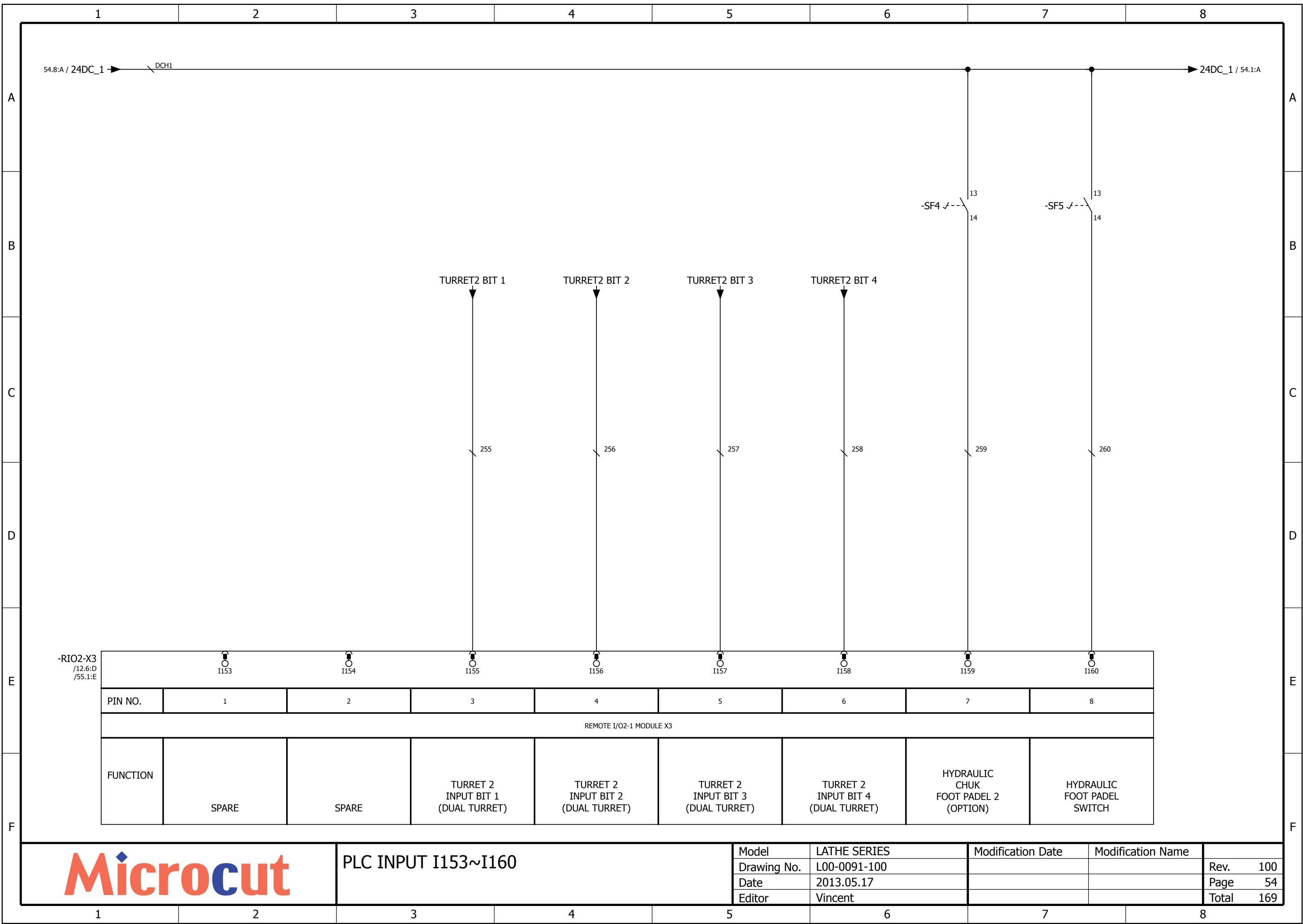
PLC INPUT I137~I144

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 52
Editor	Vincent		Total 169



PLC INPUT I145~I152

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	53
		Total	169



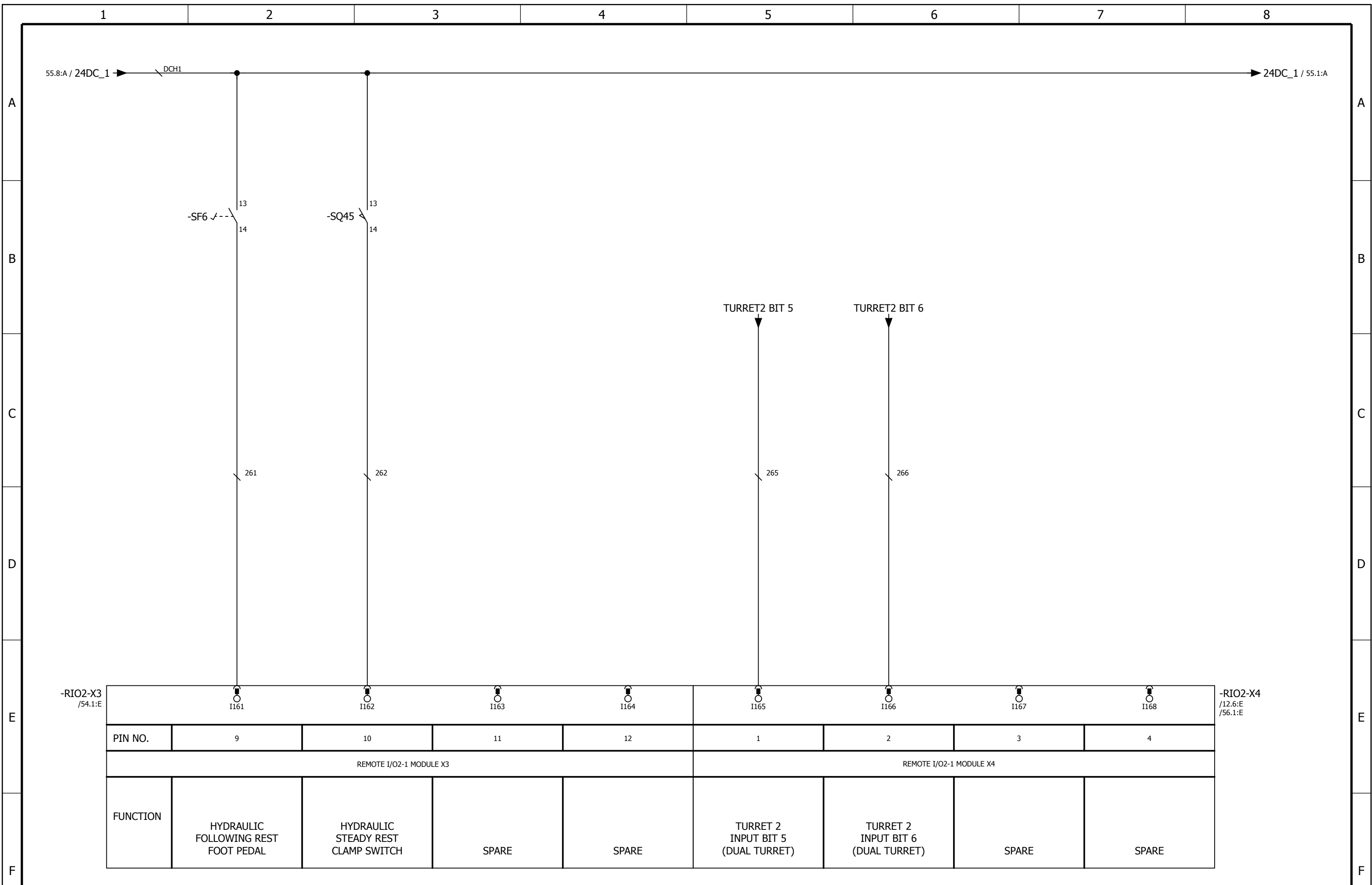
-RIO2-X3
/12.6:D
/55.1:E

	I153	I154	I155	I156	I157	I158	I159	I160
PIN NO.	1	2	3	4	5	6	7	8
REMOTE I/O2-1 MODULE X3								
FUNCTION	SPARE	SPARE	TURRET 2 INPUT BIT 1 (DUAL TURRET)	TURRET 2 INPUT BIT 2 (DUAL TURRET)	TURRET 2 INPUT BIT 3 (DUAL TURRET)	TURRET 2 INPUT BIT 4 (DUAL TURRET)	HYDRAULIC CHUK FOOT PADEL 2 (OPTION)	HYDRAULIC FOOT PADEL SWITCH



PLC INPUT I153~I160

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	54
Editor	Vincent	Total	169



-RIO2-X3 /54.1:E	I161	I162	I163	I164	I165	I166	I167	I168	-RIO2-X4 /12.6:E /56.1:E
PIN NO.	9	10	11	12	1	2	3	4	
	REMOTE I/O-1 MODULE X3				REMOTE I/O-1 MODULE X4				
FUNCTION	HYDRAULIC FOLLOWING REST FOOT PEDAL	HYDRAULIC STEADY REST CLAMP SWITCH	SPARE	SPARE	TURRET 2 INPUT BIT 5 (DUAL TURRET)	TURRET 2 INPUT BIT 6 (DUAL TURRET)	SPARE	SPARE	



PLC INPUT I161~I168

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	55
Date	2013.05.17			Total	169
Editor	Vincent				

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

E

F

F

-RIO2-X4
/55.S:E

I169 I170 I171 I172 I173 I174 I175 I176

PIN NO.	5	6	7	8	9	10	11	12
---------	---	---	---	---	---	----	----	----

REMOTE I/O2-1 MODULE X4

FUNCTION	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE
----------	-------	-------	-------	-------	-------	-------	-------	-------



PLC INPUT I169~I176

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	56
Date	2013.05.17			Total	169
Editor	Vincent				

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

E

F

F

-RIO2-X7
/12.7:D
/58.1:E

	○ I177	○ I178	○ I179	○ I180	○ I181	○ I182	○ I183	○ I184
PIN NO.	1	2	3	4	5	6	7	8
REMOTE I/O2-2 MODULE X7								
FUNCTION	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE



PLC INPUT I177~I184

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	57
Date	2013.05.17			Total	169
Editor	Vincent				

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

E

F

F

-RIO2-X7
/57.1:E

	I185	I186	I187	I188	I189	I190	I191	I192	
PIN NO.	9	10	11	12	1	2	3	4	
	REMOTE I/O2-2 MODULE X7				REMOTE I/O2-2 MODULE X8				
FUNCTION	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	

-RIO2-X8
/12.7:E
/59.1:E



PLC INPUT I185~I192

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	58
Date	2013.05.17			Total	169
Editor	Vincent				

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

E

F

F

-RIO2-X8
/58.5:E

	○ I193	○ I194	○ I195	○ I196	○ I197	○ I198	○ I199	○ I200
PIN NO.	5	6	7	8	9	10	11	12
REMOTE I/O2-2 MODULE X8								
FUNCTION	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE	SPARE



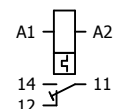
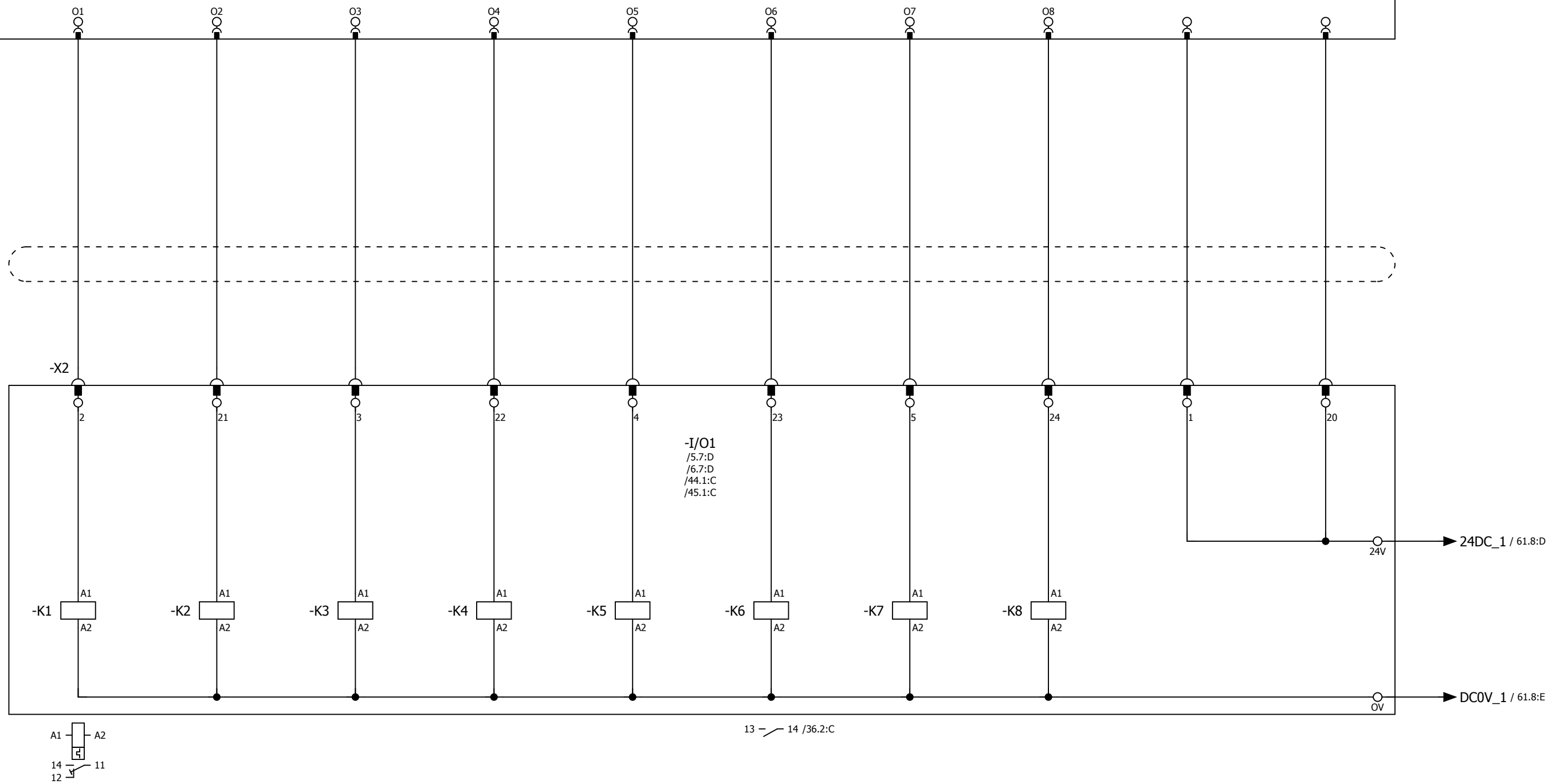
PLC INPUT I193~I200

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	59
Date	2013.05.17			Total	169
Editor	Vincent				

1 2 3 4 5 6 7 8

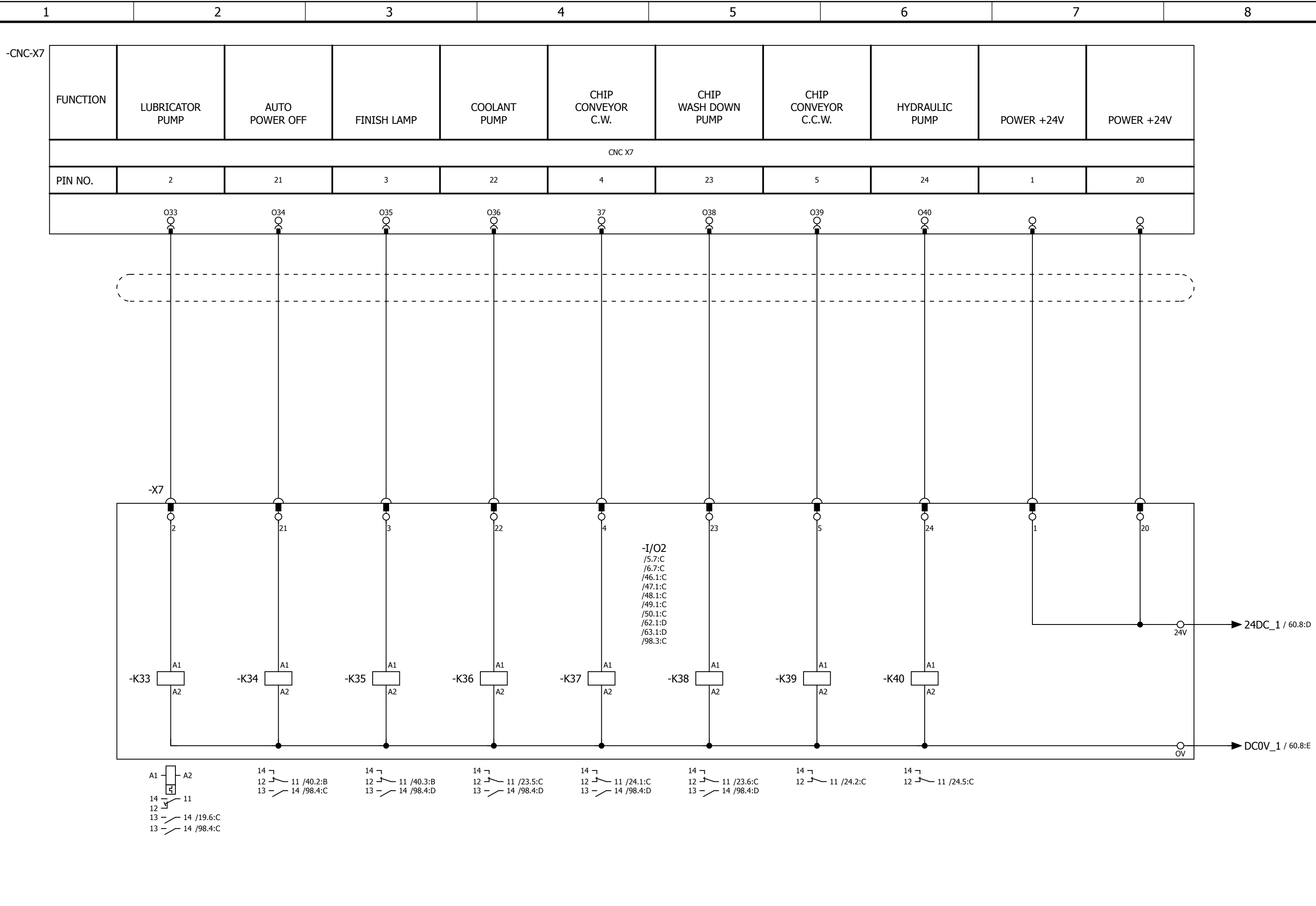
-CNC-X2
/44.1:E

FUNCTION	EMERGENCY LOOP O.K.	X AXIS DRIVE SPEED ENABLE	Y AXIS DRIVE SPEED ENABLE	Z AXIS DRIVE SPEED ENABLE	SPINDLE DRIVE SPEED ENABLE	X AXIS BRAKE CONTROL	DOOR INTERLOCK	SPARE	POWER +24V	POWER +24V
CNC X2										
PIN NO.	2	21	3	22	4	23	5	24	1	20
	01	02	03	04	05	06	07	08		



PLC OUTPUT 01~08

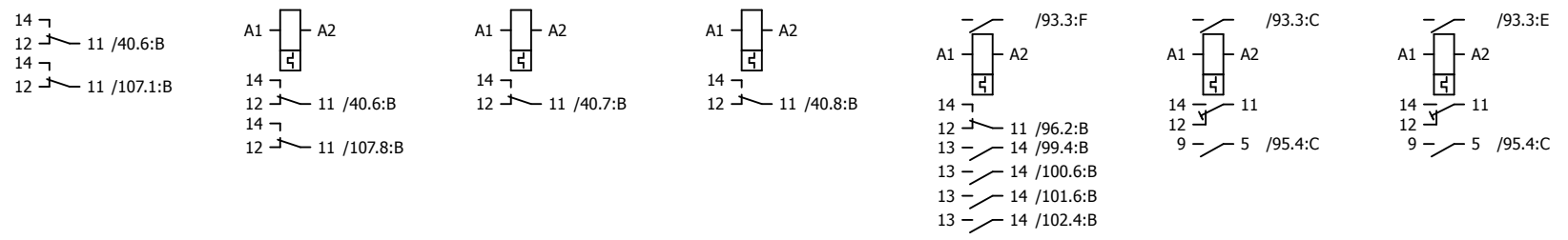
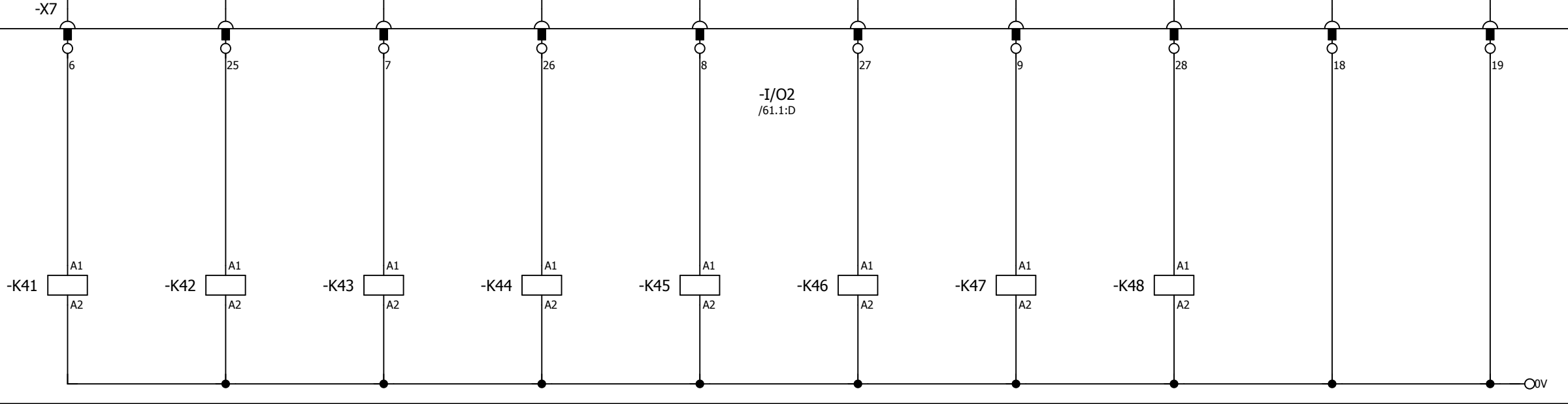
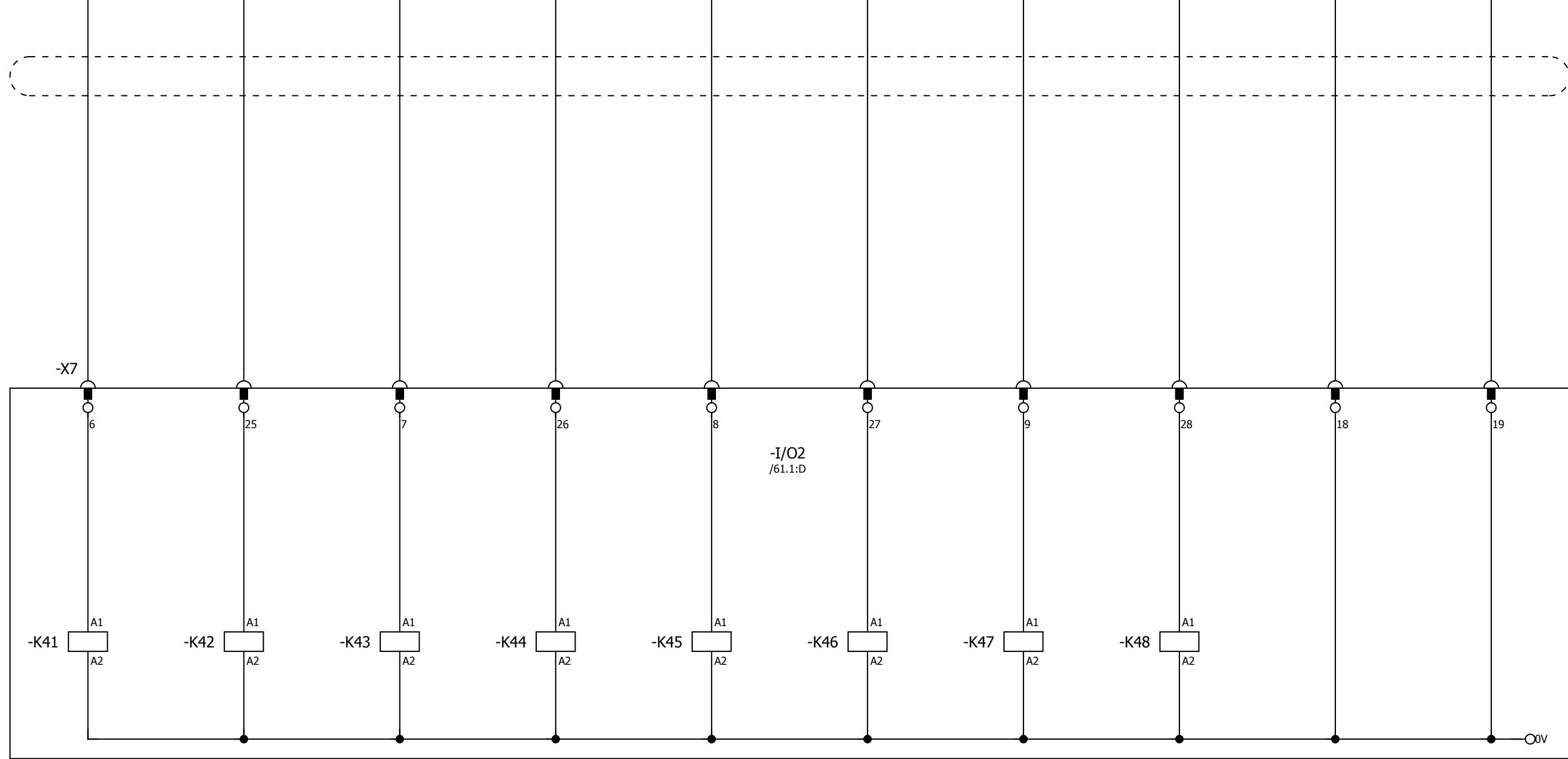
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 60
Editor	Vincent		Total 169



PLC OUTPUT O33~O40

Model	LATHE SERIES	Modification Date	Modification Name	
Drawing No.	L00-0091-100			Rev. 100
Date	2013.05.17			Page 61
Editor	Vincent			Total 169

-CNC-X7	FUNCTION	SPINDLE HEADSTOCK LUBRICATION PUMP	HYDRAULIC CHUCK CLAMP	HYDRAULIC CHUCK UNCLAMP	LOW GEAR CONTROL 1	HIGH GEAR CONTROL 1	TURRET OUTPUT BIT 1	TURRET OUTPUT BIT 2	TURRET OUTPUT BIT 3	POWER 0V	POWER 0V
CNC AXES MODULE X7											
PIN NO.	6	25	7	26	8	27	9	28	18	19	
	O41	O42	O43	O44	O45	O46	O47	O48			

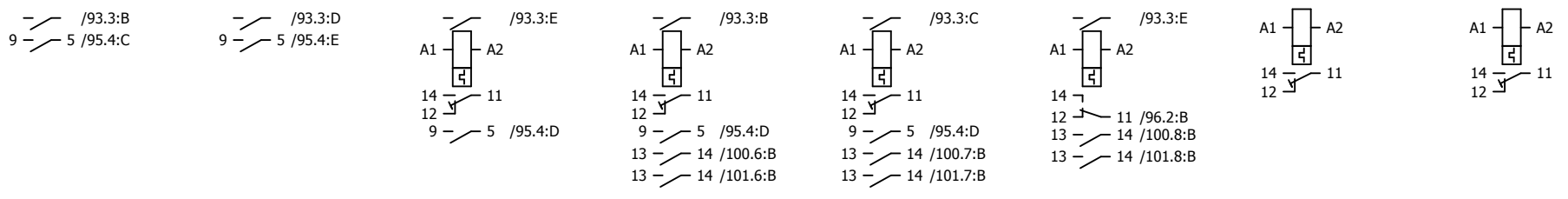
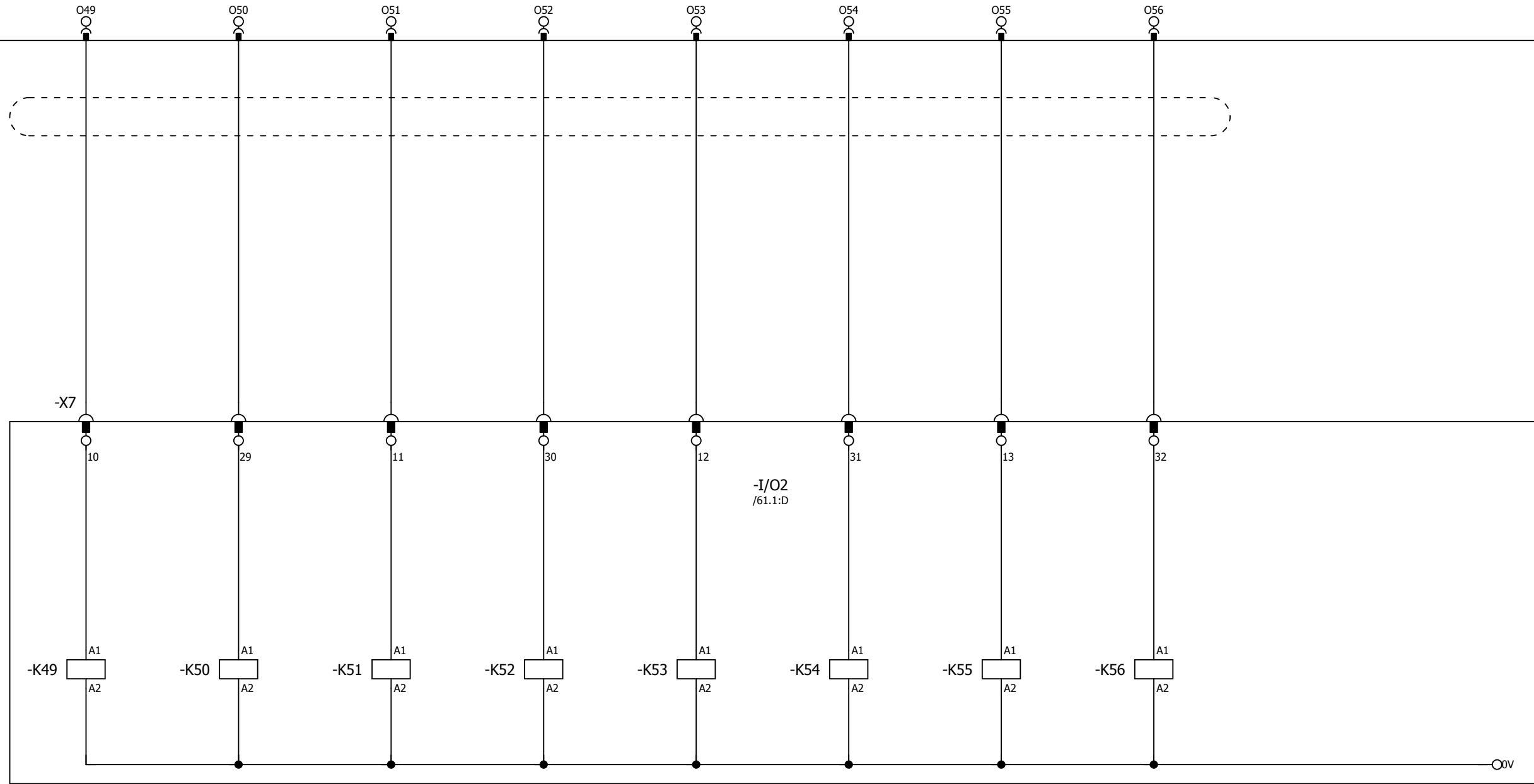


PLC OUTPUT O41~O48

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 62
Editor	Vincent		Total 169

-CNC-X7

FUNCTION	TURRET OUTPUT BIT 4	TURRET OUTPUT BIT 5	TURRET OUTPUT BIT 6	TURRET OUTPUT BIT 7	TURRET OUTPUT BIT 8	TURRET OUTPUT BIT 9	HYDRAULIC TAILSTOCK QUILL ADVANCE	HYDRAULIC TAILSTOCK QUILL RETRACT		
CNC X7										
PIN NO.	10	29	11	30	12	31	13	32		
	O49	O50	O51	O52	O53	O54	O55	O56		



PLC OUTPUT O49~O56

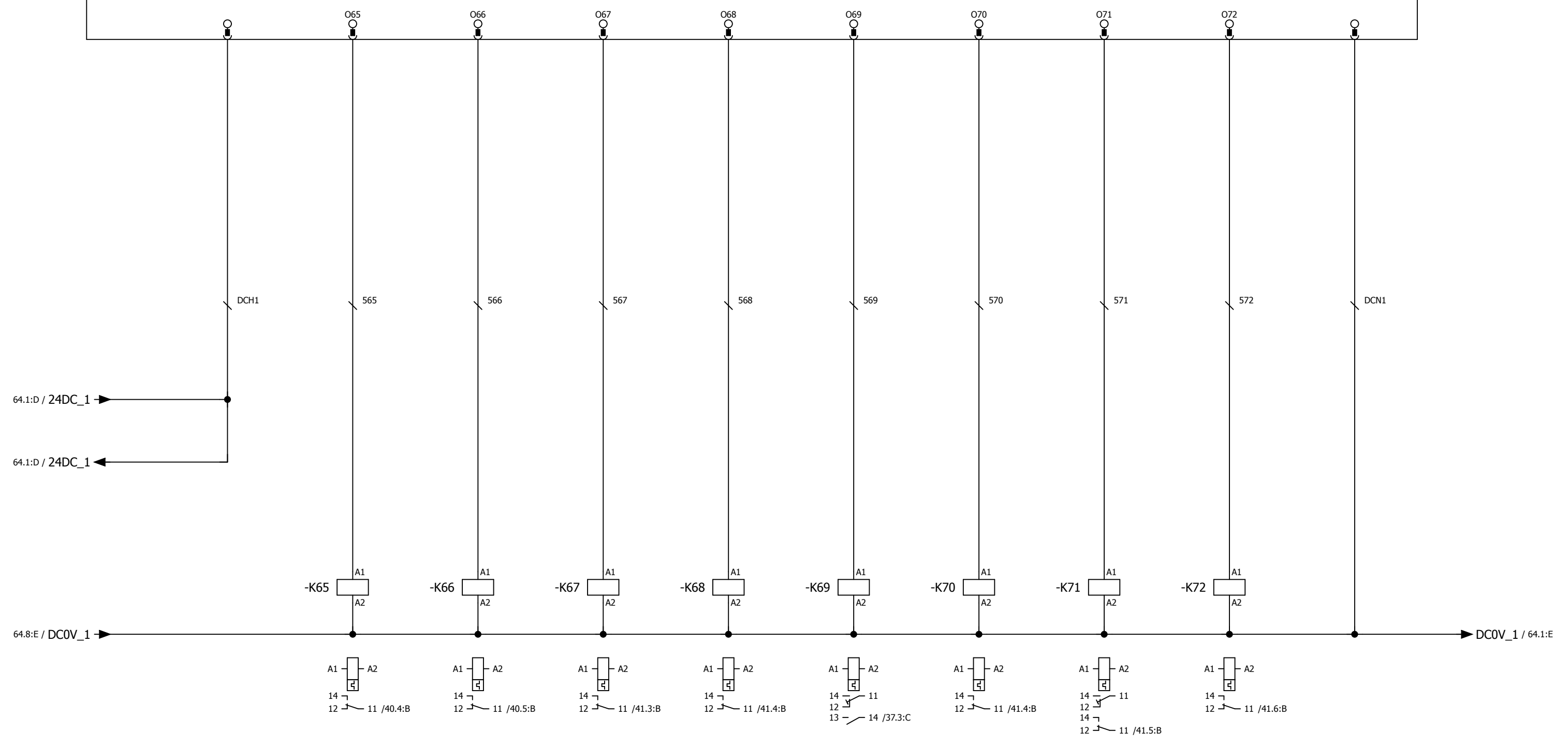
Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	63
Date	2013.05.17			Total	169
Editor	Vincent				

-RIO1-X4
/12.6:A

1	2	3	4	5	6	7	8	9	10	
FUNCTION	POWER +24V	EXECUTION LAMP (GREEN)	ALARM LAMP (RED)	PROGRAMMABLE DOOR CLOSE	TAILSTOCK BODY UNLOCK	SPINDLE 2 DRIVE SPEED ENABLE	C AXIS FULL BRAKE	C AXIS HALF BRAKE	PARTS CATCHER ADVENCE	POWER 0V

REMOTE I/O1 MODULE X4

PIN NO.	1	2	3	4	5	6	7	8	9	10
---------	---	---	---	---	---	---	---	---	---	----

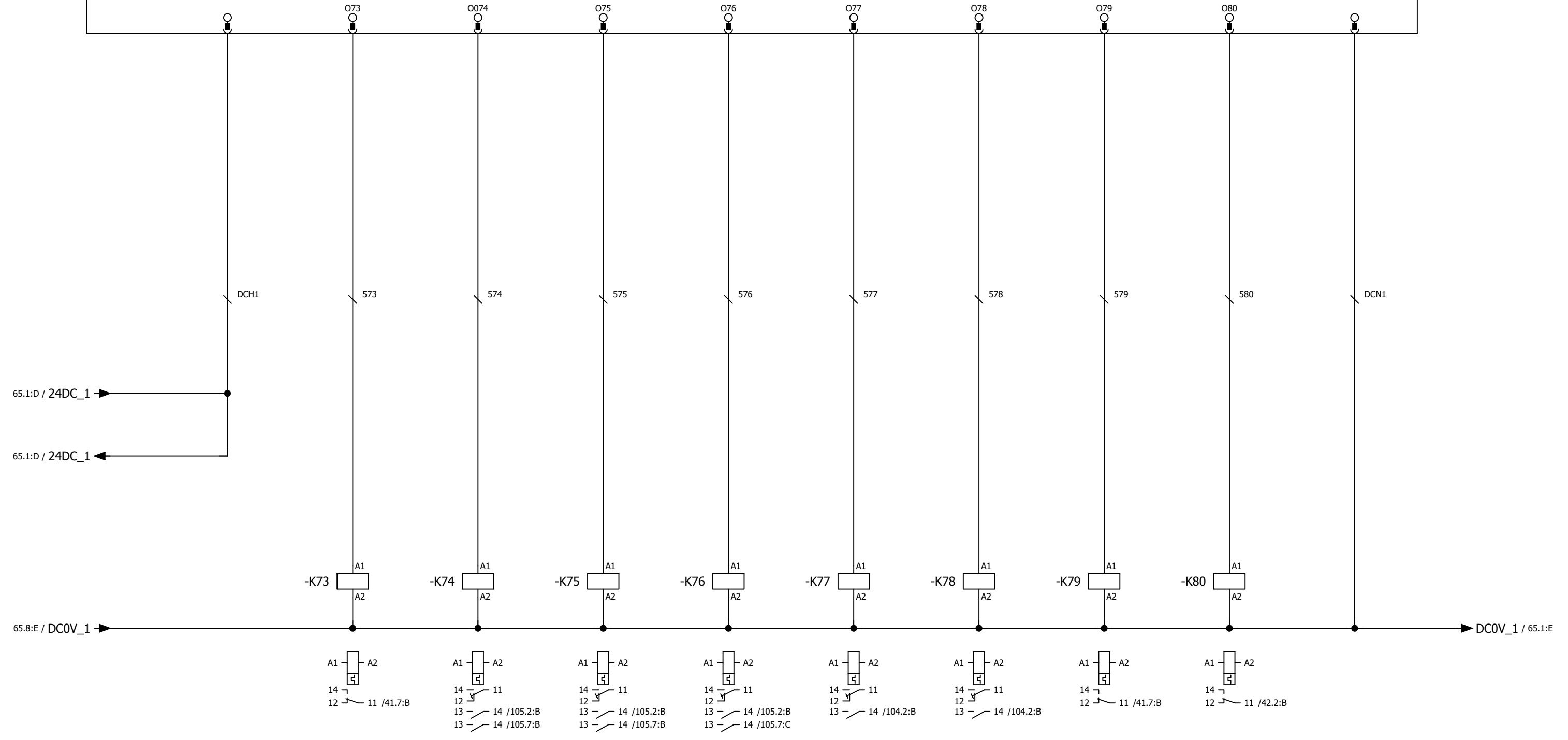


PLC OUTPUT O65~O72

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	64
Editor	Vincent	Total	169

-RIO1-X5
/12.6:B

1	2	3	4	5	6	7	8	9	10	
FUNCTION	POWER +24V	PARTS CATCHER RETRACT	BAR FEEDER CHUCK OPEN	BAR FEEDER M CODE ON	BAR FEEDER NC ALARM	PROBE UP	PROBE DOWN	PARTS CUT OFF CONTROL	PROGRAMMABLE DOOR OPEN CONTROL	POWER 0V
REMOTE I/O1 MODULE X5										
PIN NO.	1	2	3	4	5	6	7	8	9	10
		073	074	075	076	077	078	079	080	

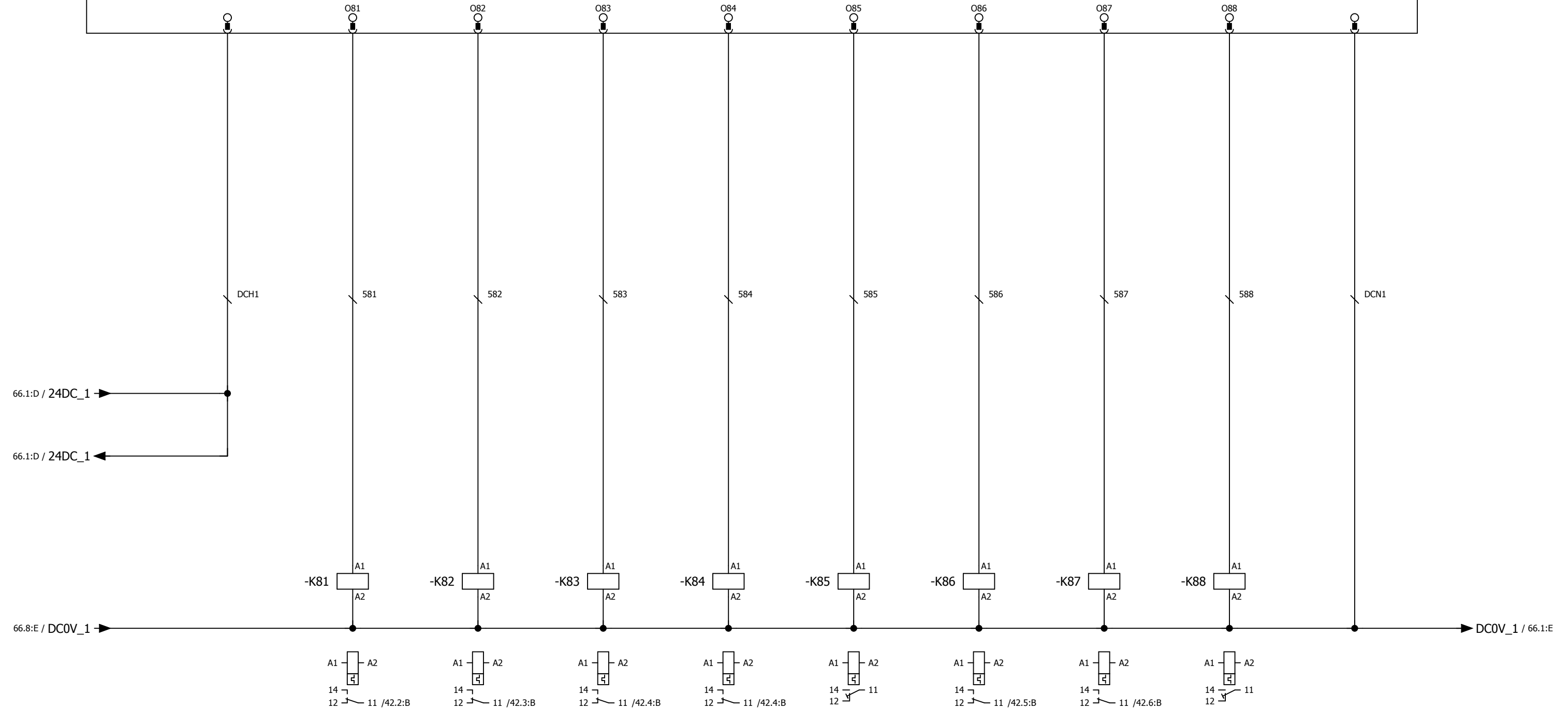


PLC OUTPUT O73~O80

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	65
Editor	Vincent	Total	169

-RIO2-X1
/12.6:A

1	2	3	4	5	6	7	8	9	10	
FUNCTION	POWER +24V	LOW GEAR CONTROL 2	HIGH GEAR CONTROL 2	HYDRAULIC STEADY REST CLAMP	HYDRAULIC STEADY REST UNCLAMP	SPARE	PARTS CATCHER DOOR OPEN CONTROL	TOOL SETTER AIR BLOWER	SPARE	POWER 0V
REMOTE I/O2 MODULE X1										
PIN NO.	1	2	3	4	5	6	7	8	9	10
		O81	O82	O83	O84	O85	O86	O87	O88	

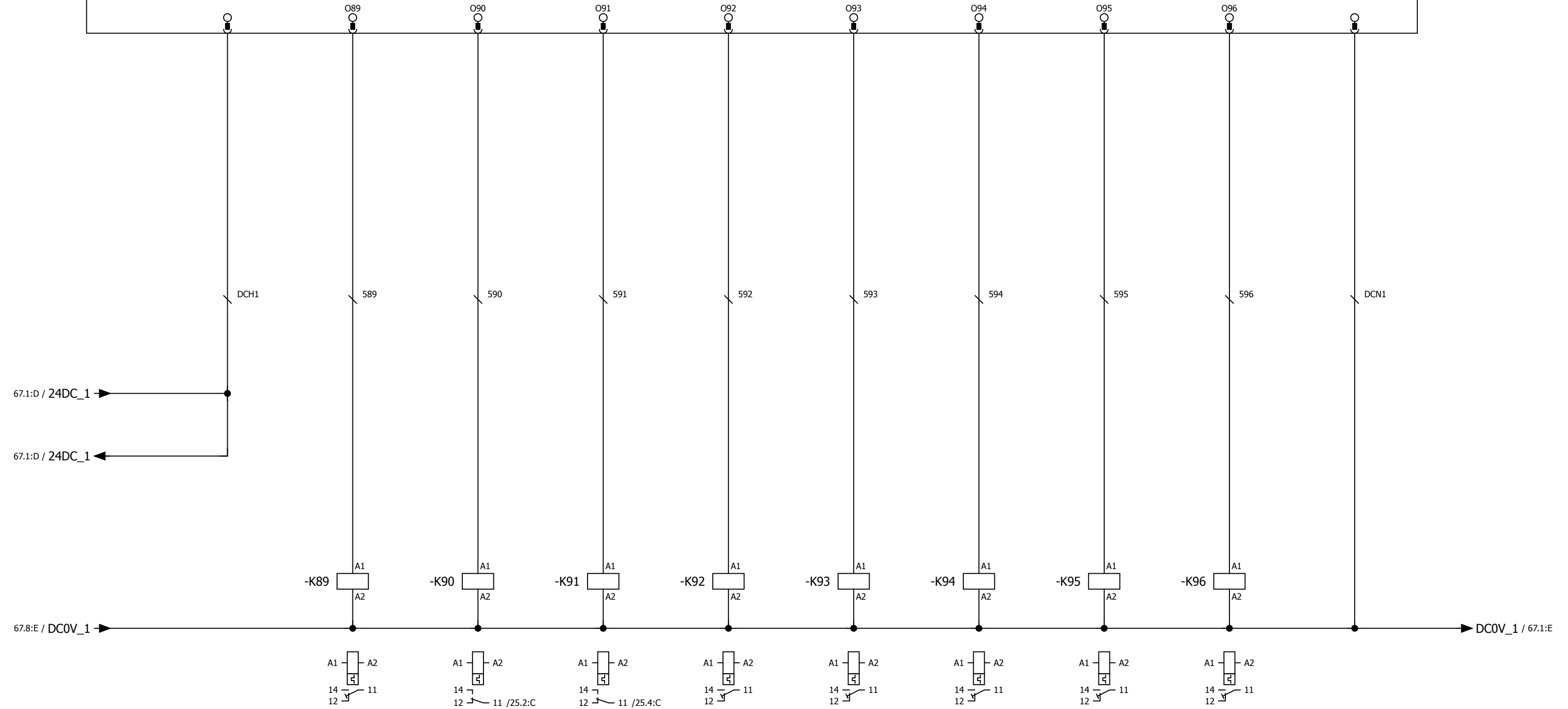


PLC OUTPUT O81~O88

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	66
Editor	Vincent	Total	169

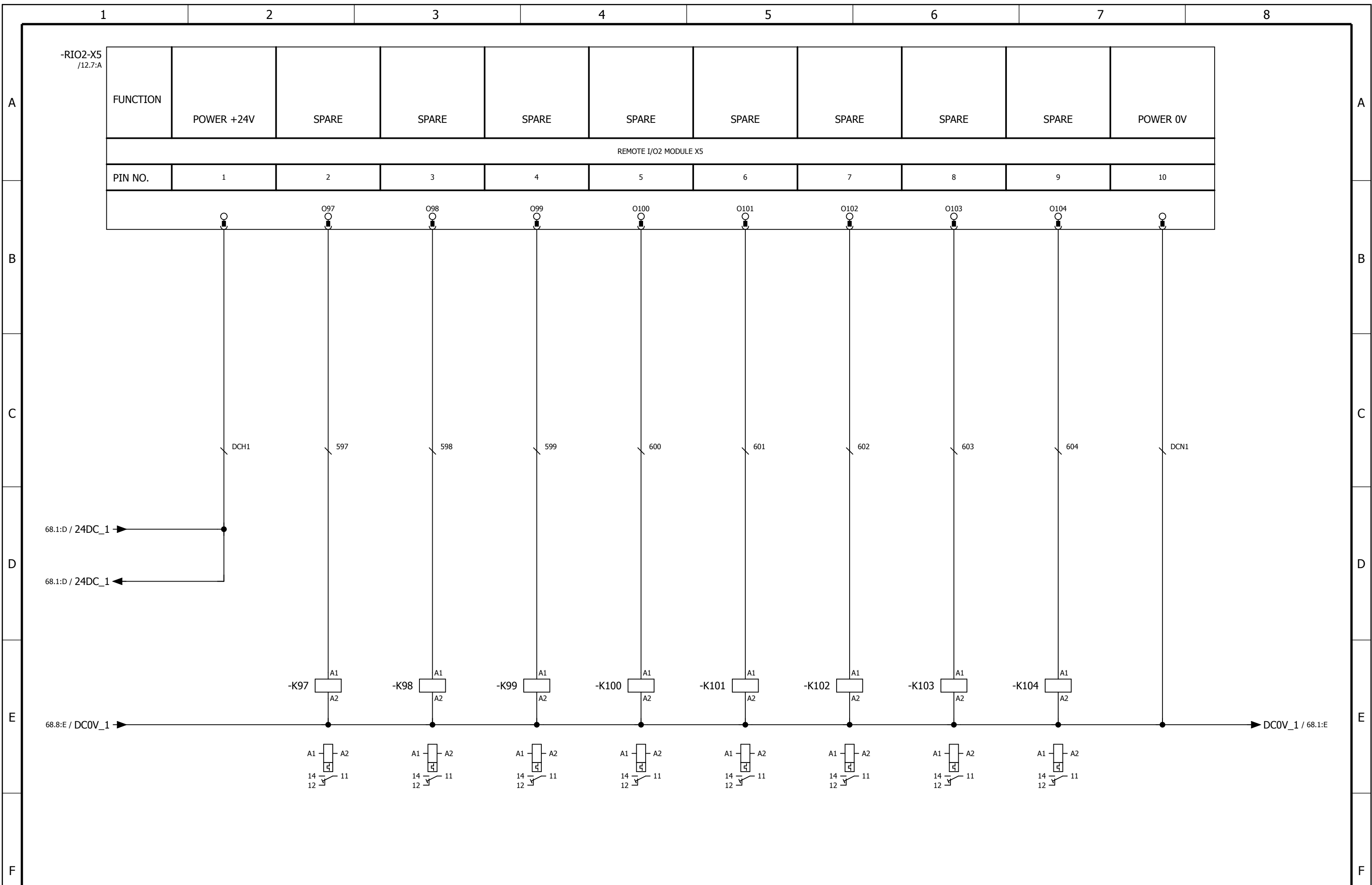
-RIO2-X2
/12.6:B

1	2	3	4	5	6	7	8	9	10	
FUNCTION	POWER +24V	SPARE	DUAL TURRET TURRET E4 C.W.	DUAL TURRET TURRET E4 C.C.W.	SPARE	SPARE	SPARE	SPARE	SPARE	POWER 0V
REMOTE I/O2 MODULE X2										
PIN NO.	1	2	3	4	5	6	7	8	9	10
		O89	O90	O91	O92	O93	O94	O95	O96	



PLC OUTPUT O89~O96

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	67
Editor	Vincent	Total	169

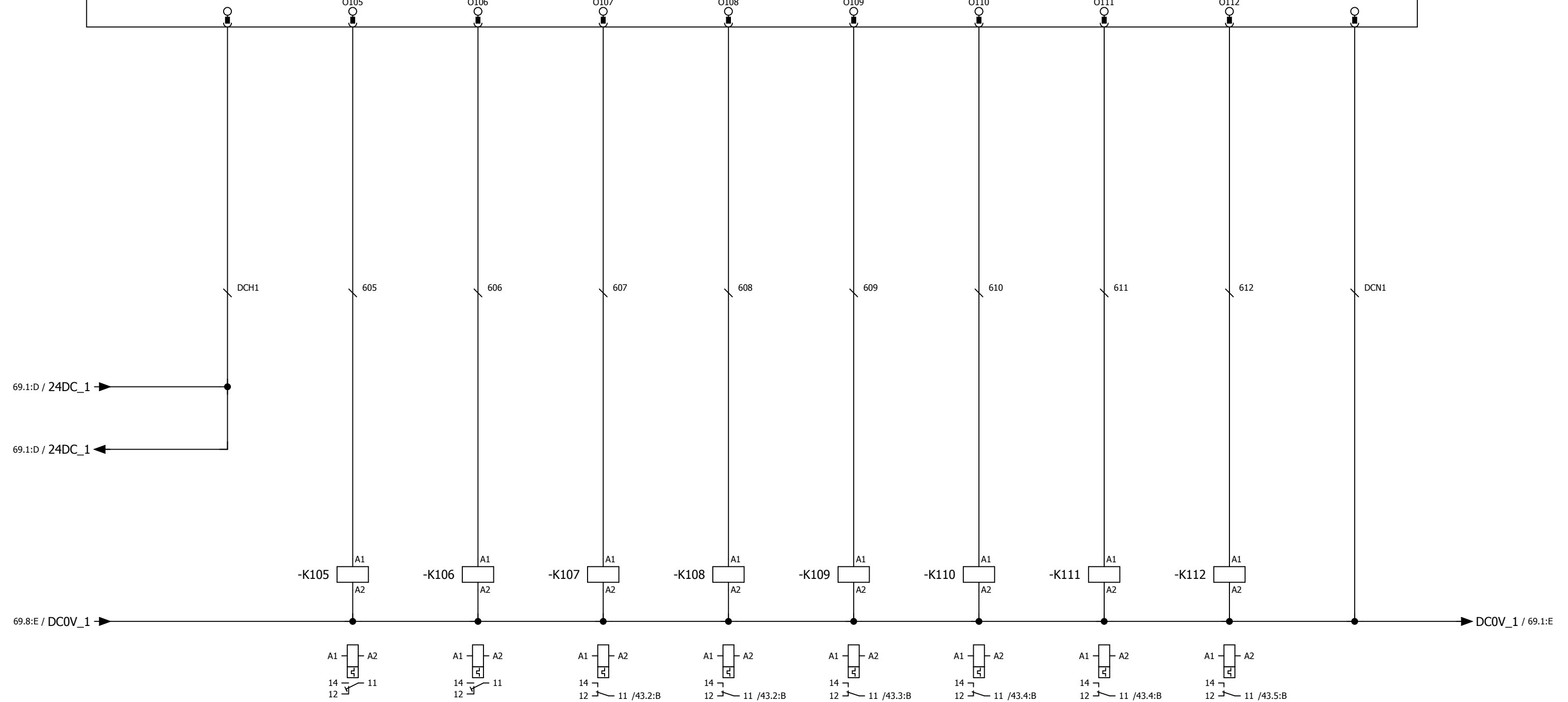


PLC OUTPUT O97~O104

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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Editor	Vincent		Total 169

-RIO2-X6
/12.7:B

1	2	3	4	5	6	7	8	9	10	
FUNCTION	POWER +24V	SPARE	SPARE	M CODE SPARE	M CODE SPARE	M CODE SPARE	M CODE SPARE	M CODE SPARE	M CODE SPARE	POWER 0V
REMOTE I/O2 MODULE X6										
PIN NO.	1	2	3	4	5	6	7	8	9	10
		O105	O106	O107	O108	O109	O110	O111	O112	

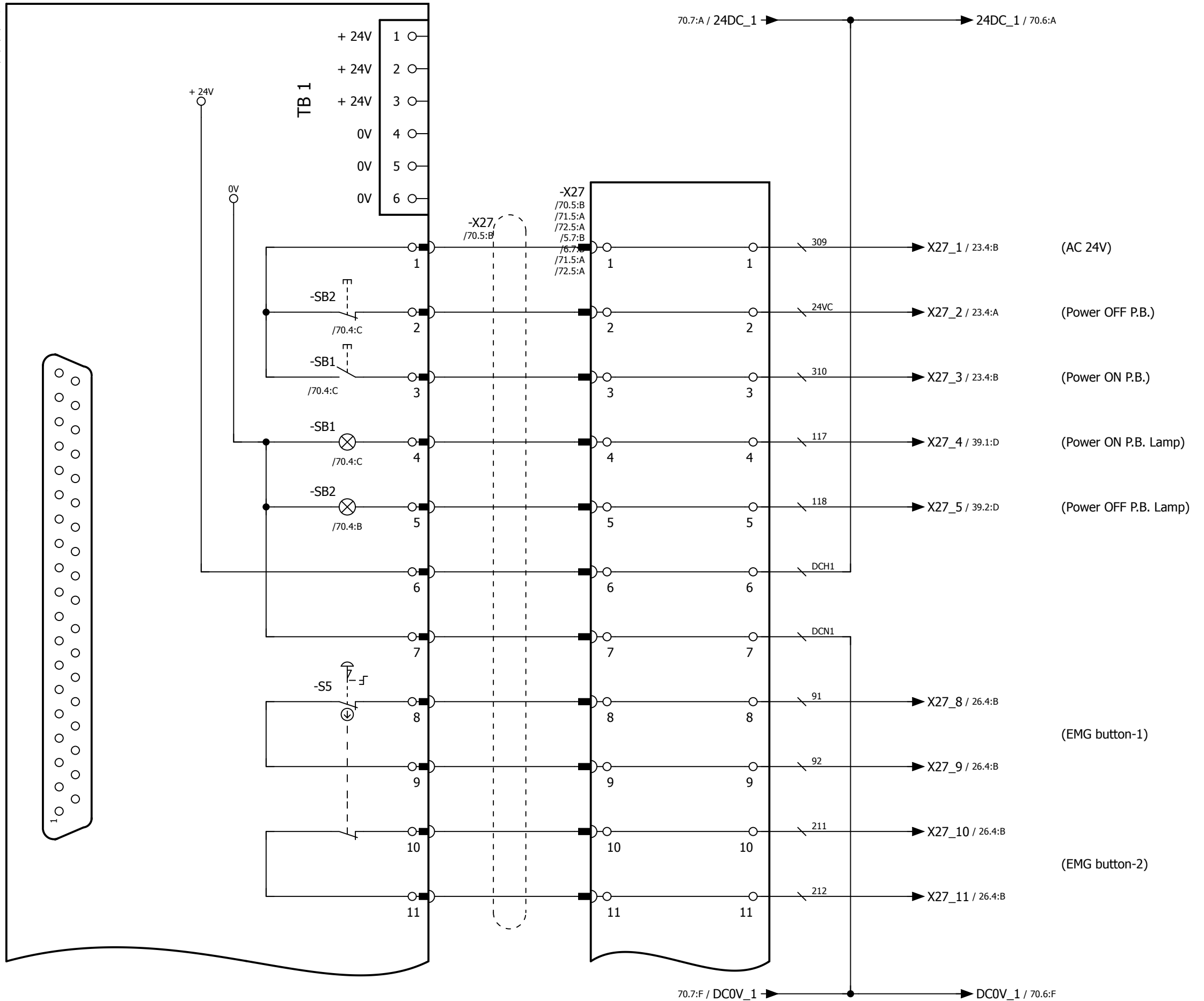


PLC OUTPUT O105~O112

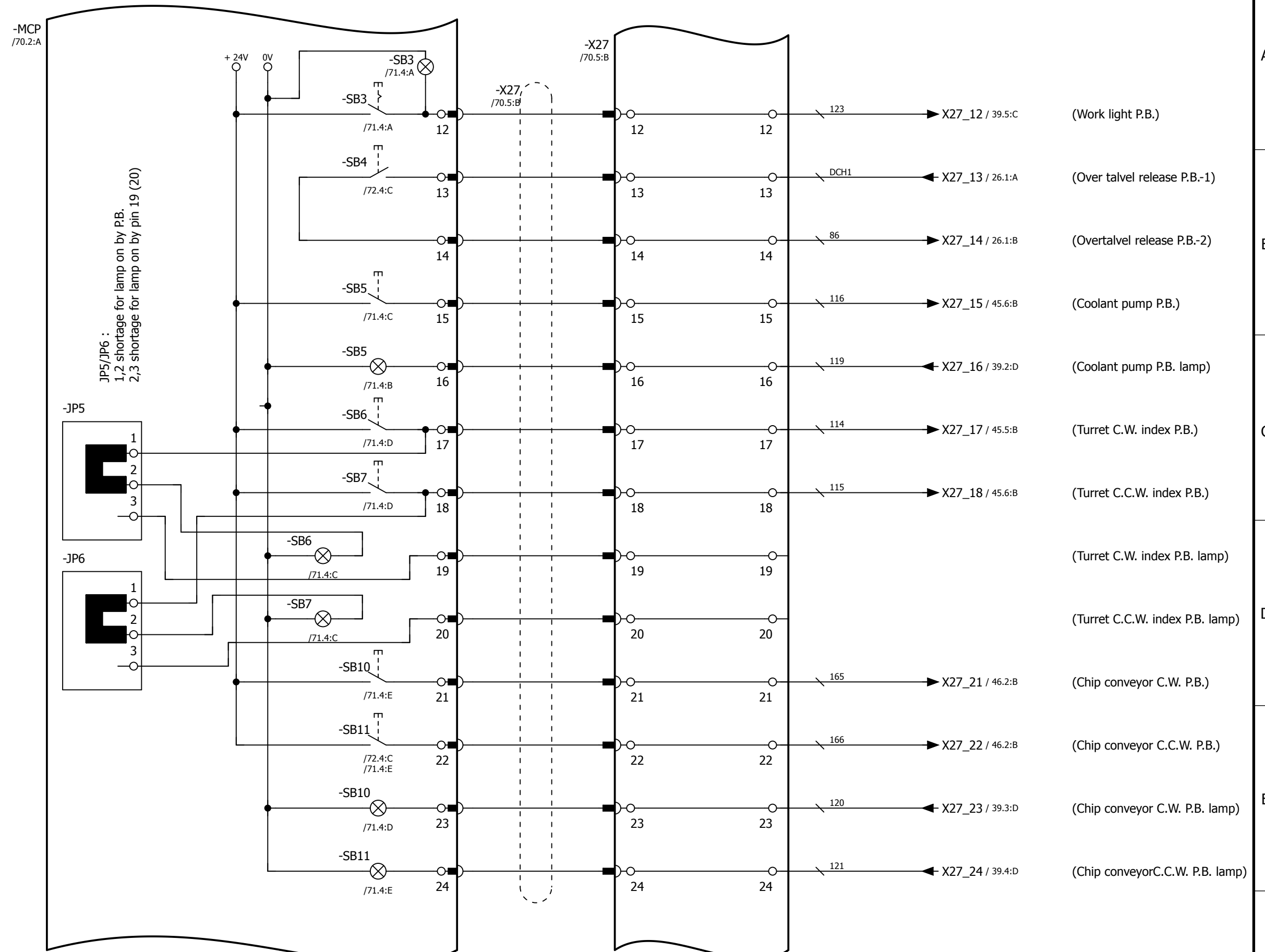
Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	69
Editor	Vincent	Total	169



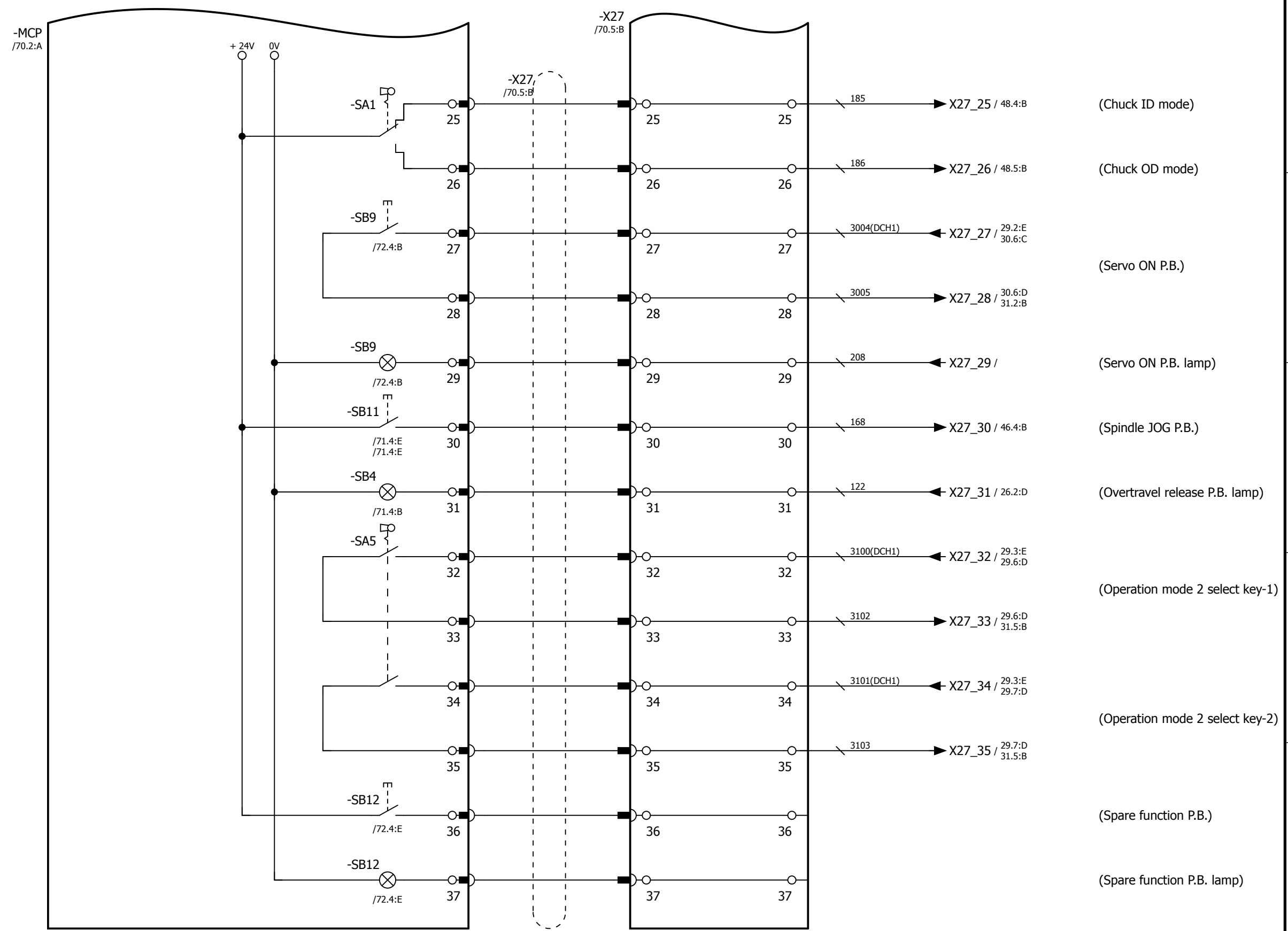
-MCP
/5.5:A
/6.5:A
/71.2:A
/72.2:A



Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	70
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Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
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Editor	Vincent		
		Rev.	100
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		Total	169



MACHINE CONTROL PANEL CONNECTION - 3

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	72
Date	2013.05.17			Total	169
Editor	Vincent				

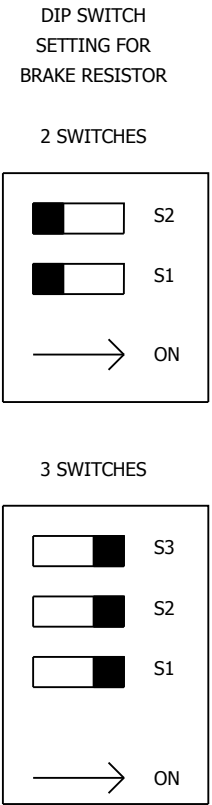
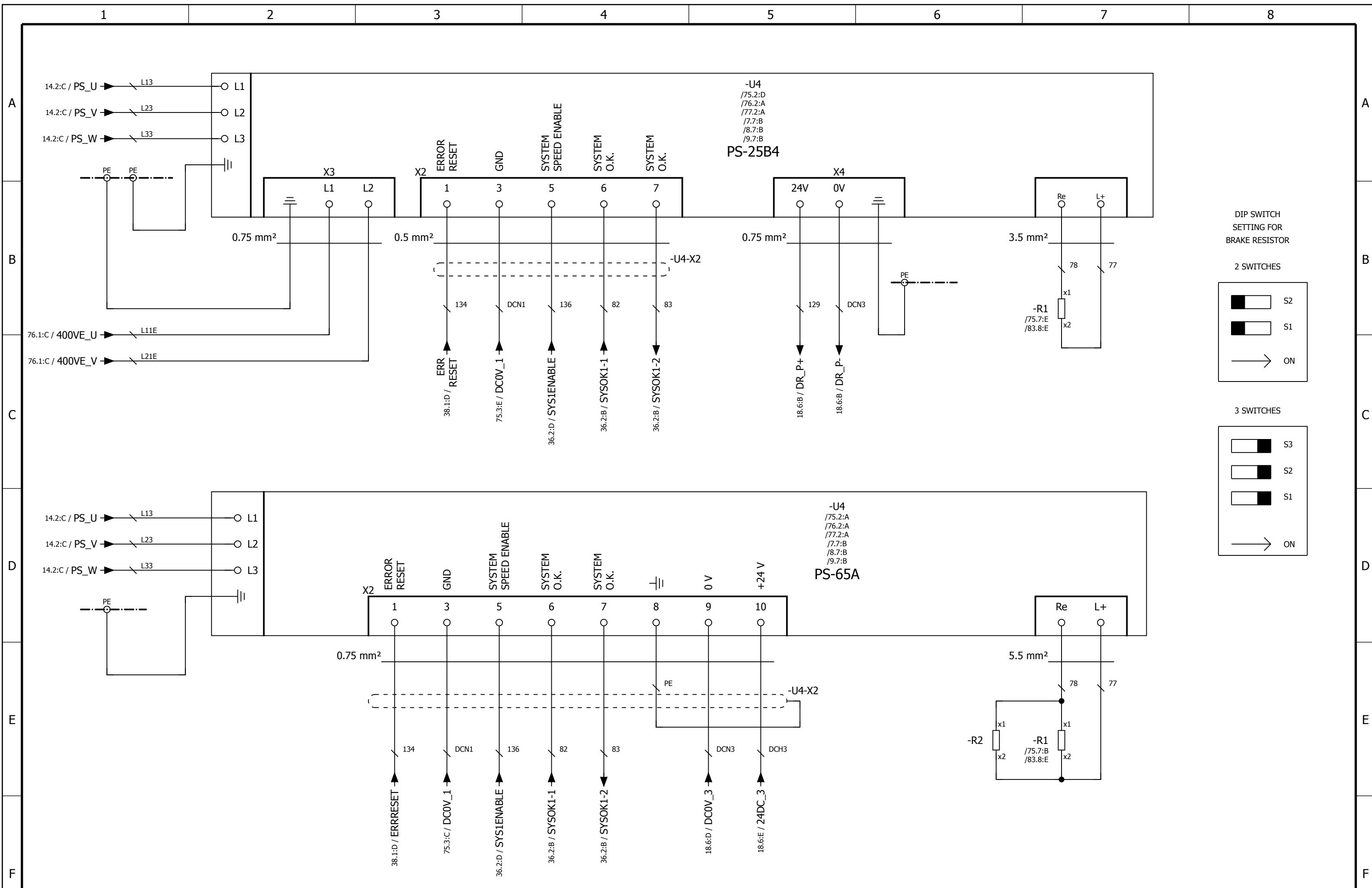
INPUT TURRET TYPE	I 96	I 97	I 98	I 99	I 100	I 101	I 102	I 103	I 104
BARUFFALDI SERIES TURRET	TURRET CLAMP	TURRET IN POSITION	——	ALARM BIT 1	ALARM BIT 2	ALARM BIT 4	ALARM BIT 8	ALARM BIT 16	——
DIPLOMATIC SERVO TURRET	TURRET CLAMP	TURRET IN POSITION	——	ALARM BIT 1	ALARM BIT 2	ALARM BIT 4	ALARM BIT 8	——	——
SAUTER SERVO TURRET	TURRET CLAMP	——	TURRET UNCLAMP	DO 1	DO 2	DO 3	DO 4	DO 5	——
LIO SHIN HYDRAULIC TURRET	TURRET CLAMP (SENSOR F)	TURRET IN POSITION (SENSOR E)	——	TURRET POSITION SENSOR A	TURRET POSITION SENSOR B	TURRET POSITION SENSOR C	TURRET POSITION SENSOR D	——	——
GOLDEN SUN HYD. 4 POS. TURRET	TURRET CLAMP	——	TURRET UNCLAMP	TURRET POS. 1	TURRET POS. 2	TURRET POS. 3	——	TURRET C.W.	TURRET C.C.W.
DIPLOMATIC 4 POS. TURRET	TURRET LOCKED	TURRET IN POSITION	——	TURRET POS. 1	TURRET POS. 2	TURRET POS. 3	TURRET POS. 4	TURRET MOTOR OVERLOAD	TURRET MOTOR OVERHEAT
BARUFFALDI 4 POS. TURRET	TURRET LOCKED	——	TURRET UNLOCK	TURRET POS. 1	TURRET POS. 2	TURRET POS. 3	TURRET POS. 4	TURRET MOTOR OVERLOAD	TURRET MOTOR OVERHEAT
ELECTRIC 4 WAY TOOL POST	——	——	——	TURRET POS. 1	TURRET POS. 2	TURRET POS. 3	TURRET POS. 4	TURRET MOTOR OVERLOAD	——

TURRET TYPE \ OUTPUT	O 46	O 47	O 48	O 49	O 50	O 51	O 52	O 53	O 54
BARUFFALDI SERIES TURRET	TURRET START	TURRET POSITION BIT 1	TURRET POSITION BIT 2	TURRET POSITION BIT 4	TURRET POSITION BIT 8	TURRET POSITION PARITY	TURRET MODE BIT 1	TURRET MODE BIT 2	TURRET MODE BIT 4
DIPLOMATIC SERVO TURRET	TURRET START	TURRET POSITION BIT 1	TURRET POSITION BIT 2	TURRET POSITION BIT 4	TURRET POSITION BIT 8	TURRET POSITION PARITY	TURRET MODE BIT 1	TURRET MODE BIT 2	TURRET MODE BIT 4
SAUTER SERVO TURRET	TURRET CLAMP	TURRET POSITION BIT 1	TURRET POSITION BIT 2	TURRET POSITION BIT 4	TURRET POSITION BIT 8	TURRET ENABLE	TURRET MODE BIT 0	TURRET MODE BIT 1	TURRET UNCLAMP
LIO SHIN HYDRAULIC TURRET	TURRET CLAMP	—	—	—	—	—	TURRET C.W.	TURRET C.C.W.	TURRET UNCLAMP
GOLDEN SUN HYD. 4 POS. TURRET	TURRET CLAMP	—	—	—	—	—	TURRET C.W.	TURRET C.C.W.	TURRET UNCLAMP
DIPLOMATIC 4 POS. TURRET	TURRET LOCK	—	—	—	—	—	TURRET C.W.	TURRET C.C.W.	—
BARUFFALDI 4 POS. TURRET	TURRET BRAKE	—	—	—	—	—	TURRET C.W.	TURRET C.C.W.	—
ELECTRIC 4 WAY TOOL POST	—	—	—	—	—	—	TURRET C.W.	TURRET C.C.W.	—



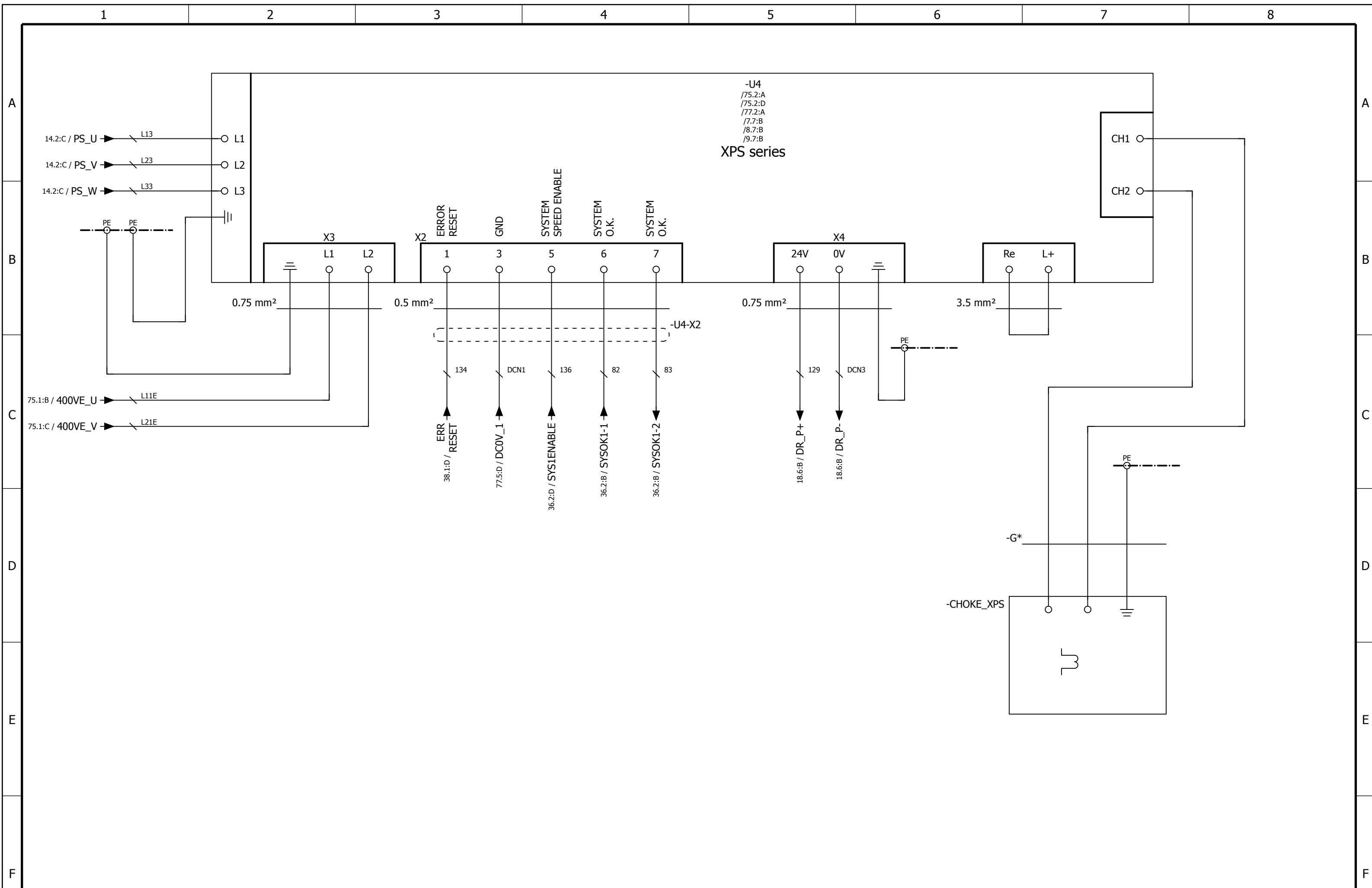
TURRET OUTPUT SIGNALS TABLE LIST

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	74
Date	2013.05.17			Total	169
Editor	Vincent				



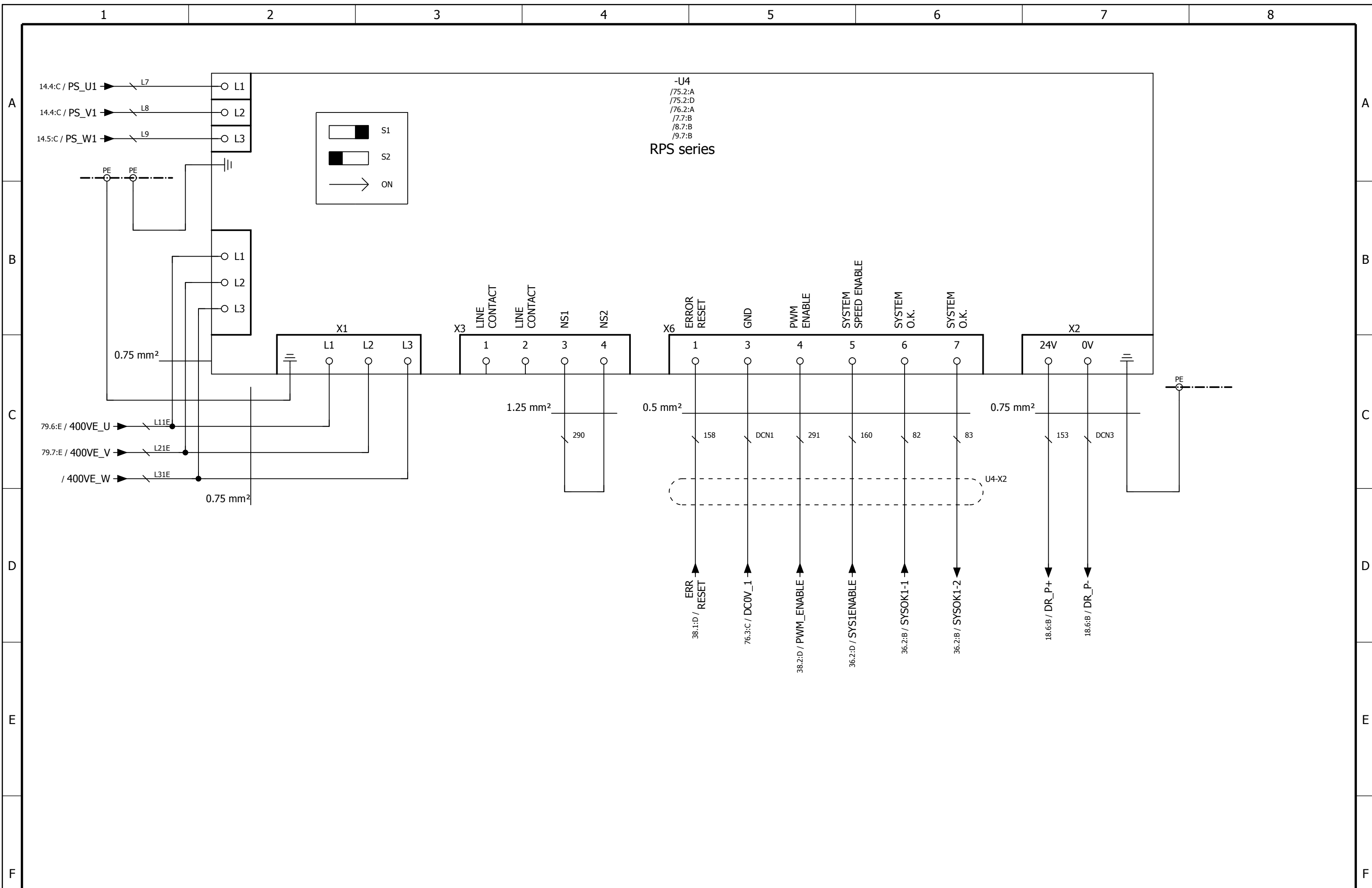
POWER SUPPLY CONNECTION - 1

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	75
Date	2013.05.17			Total	169
Editor	Vincent				

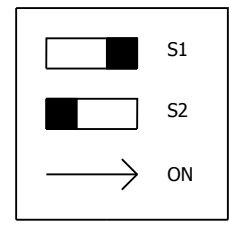


POWER SUPPLY CONNECTION - 2

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 76
Editor	Vincent		Total 169

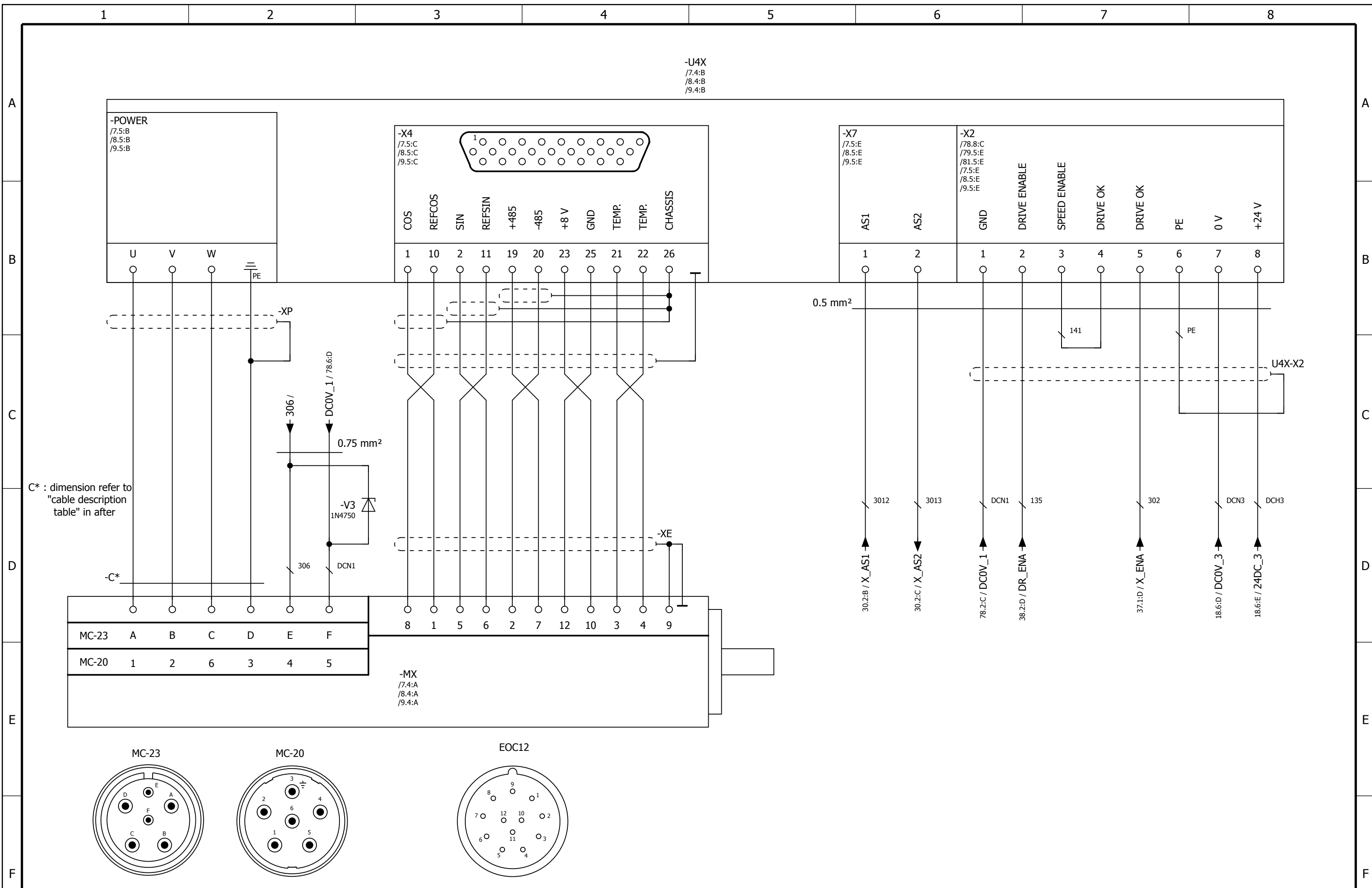


-U4
/75.2:A
/75.2:D
/76.2:A
/7.7:B
/8.7:B
/9.7:B
RPS series



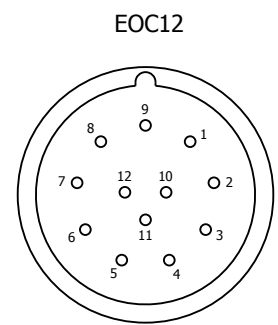
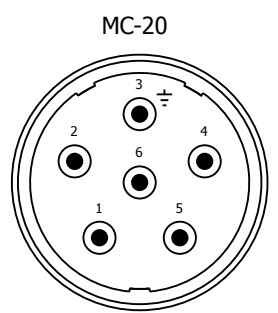
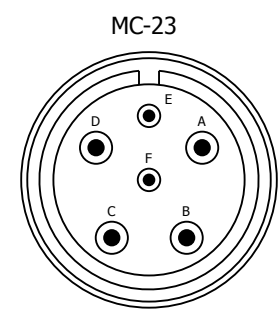
POWER SUPPLY CONNECTION - 3

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	77
Date	2013.05.17			Total	169
Editor	Vincent				



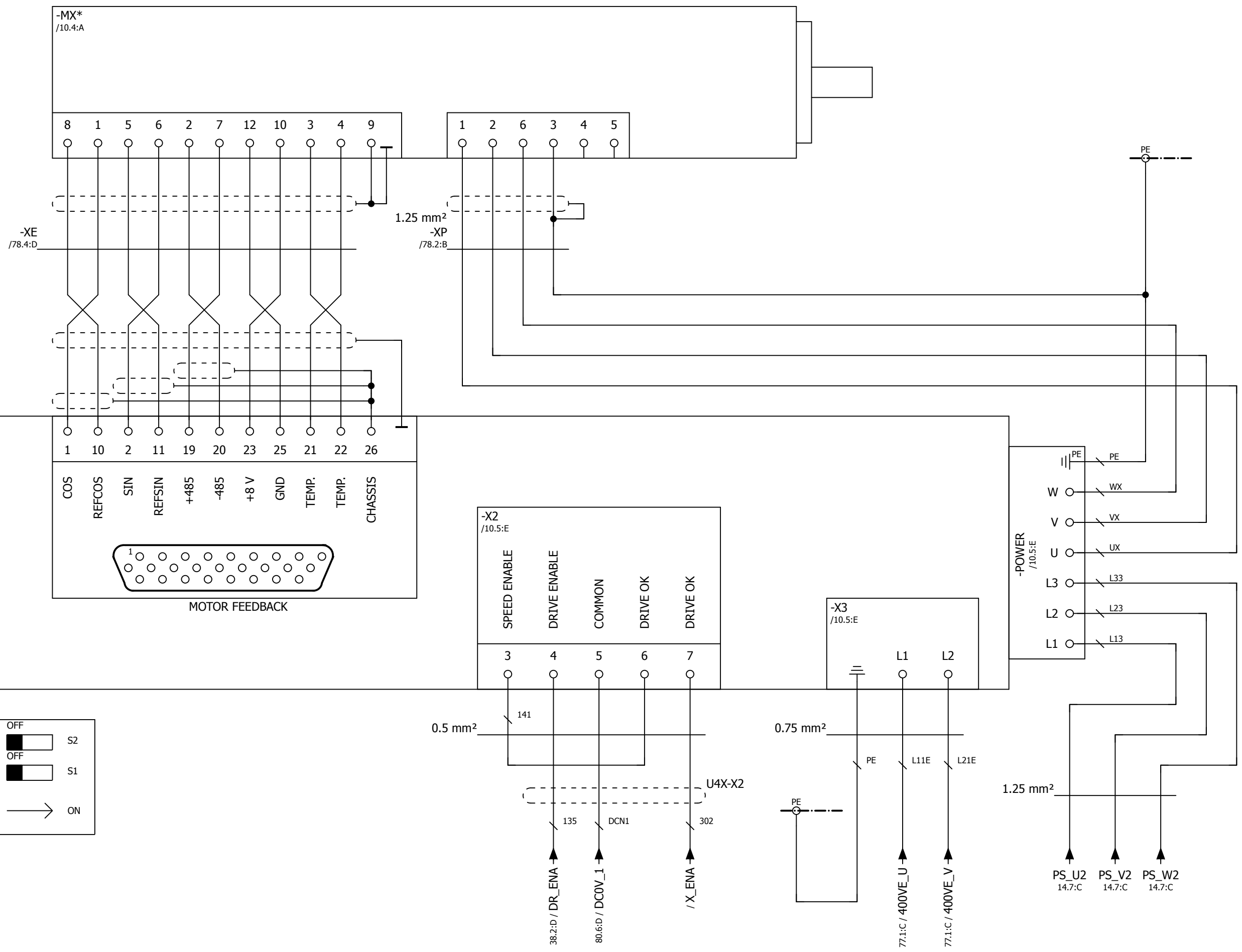
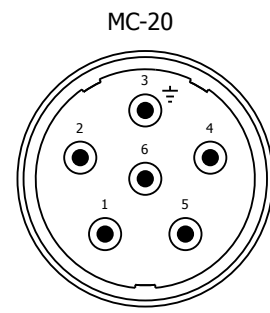
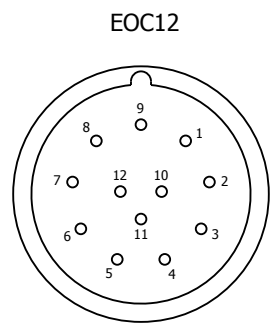
C* : dimension refer to "cable description table" in after

MC-23	A	B	C	D	E	F
MC-20	1	2	6	3	4	5



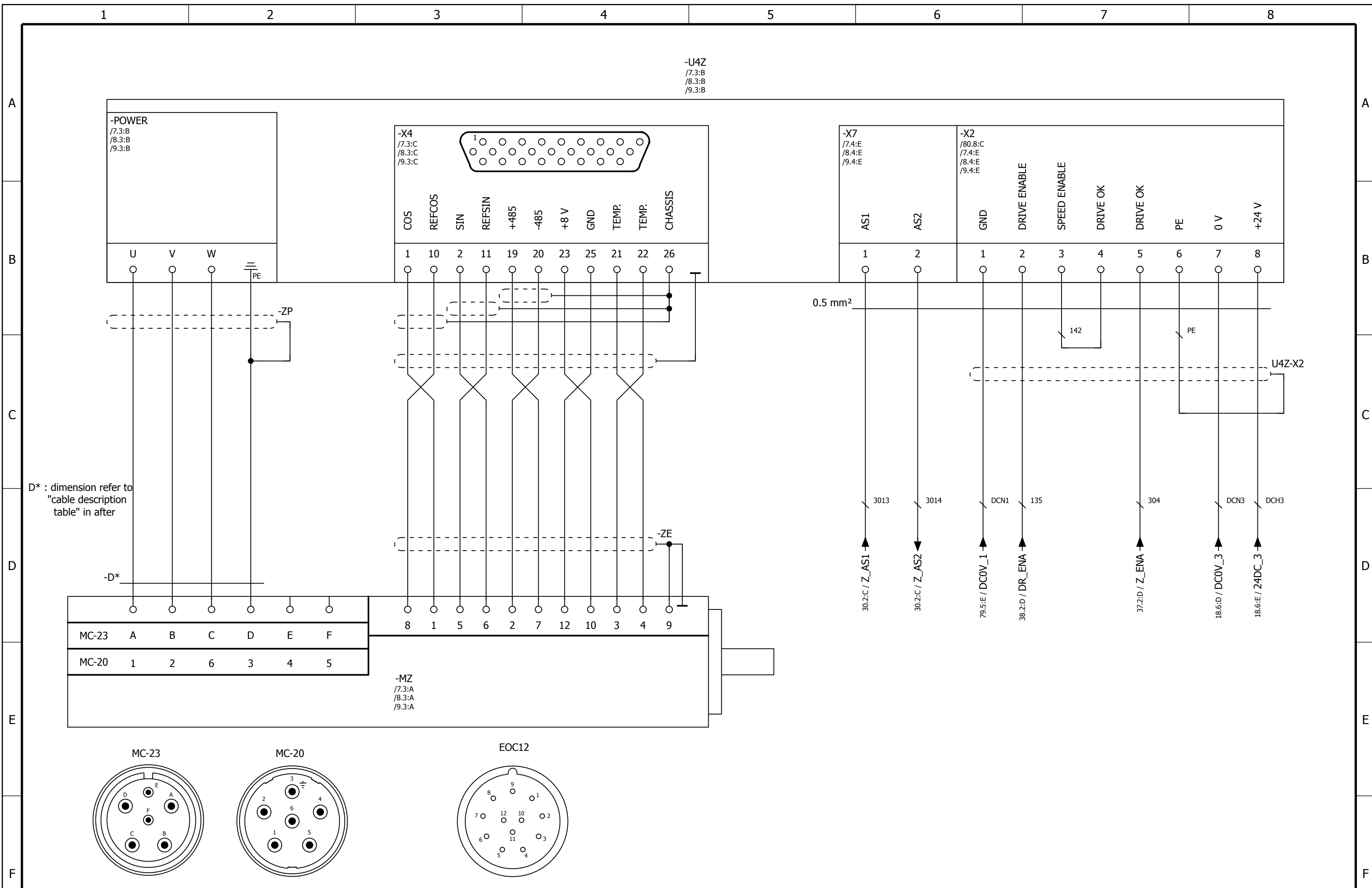
X SERVO DRIVE CONNECTION (DDS SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	78
		Total	169



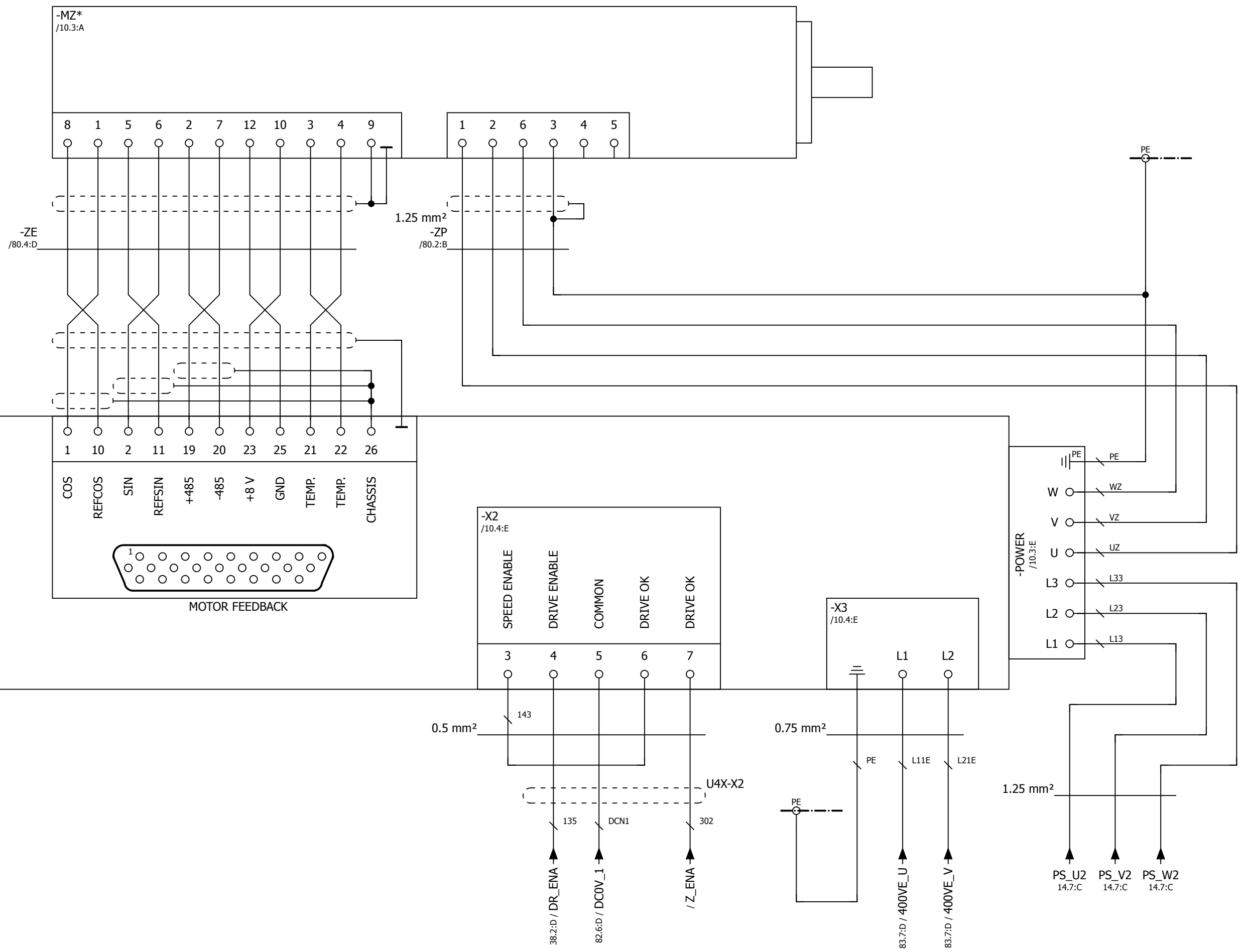
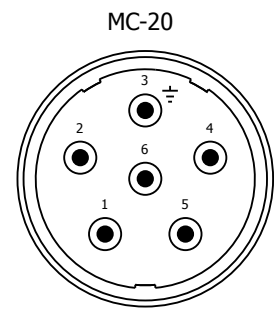
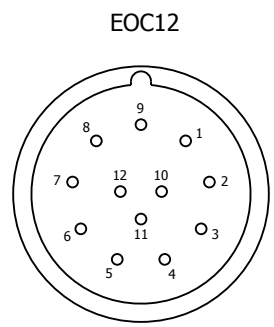
X SERVO DRIVE CONNECTION (ACSD SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	79
		Total	169



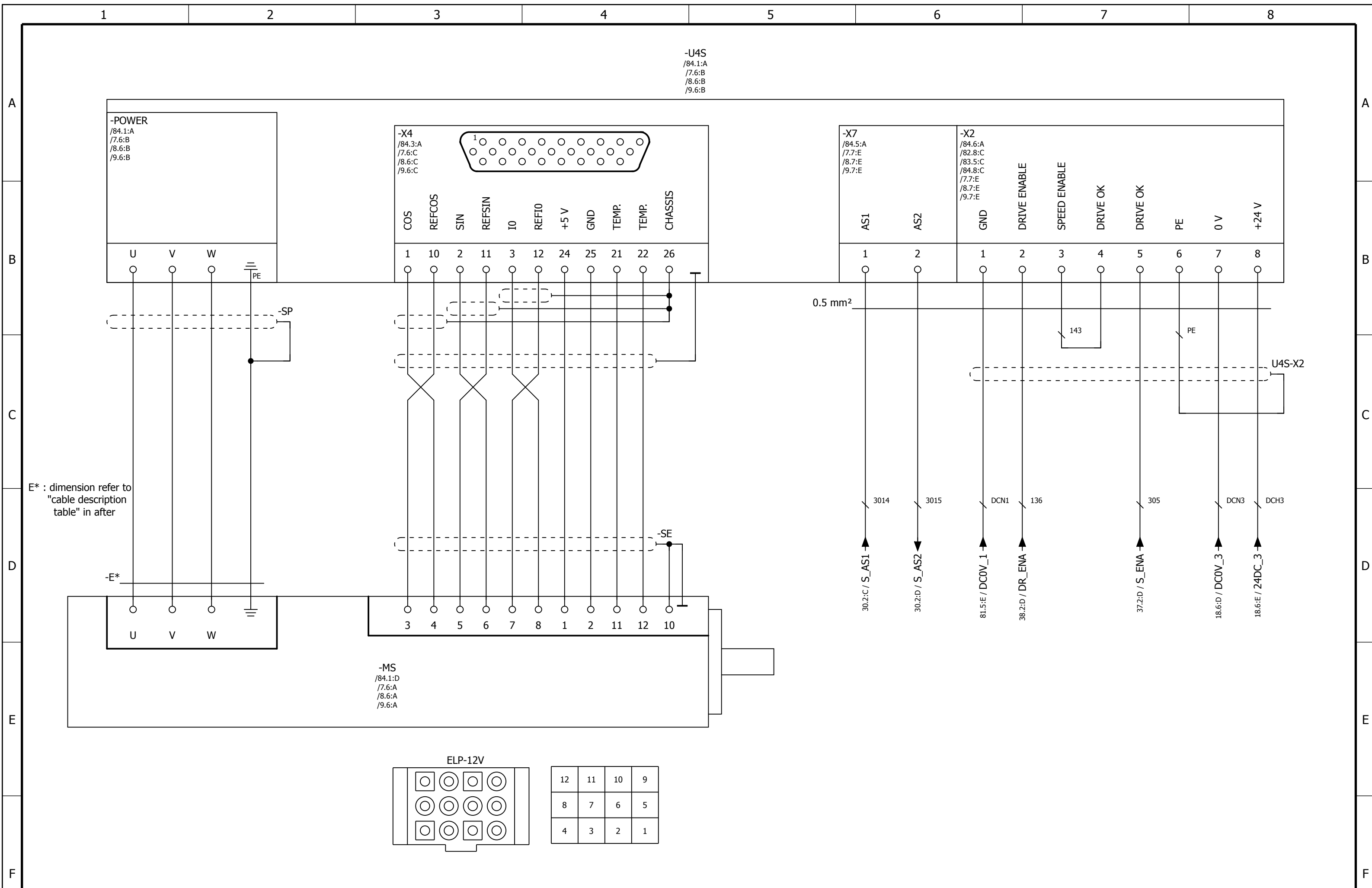
Z SERVO DRIVE CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	80
Date	2013.05.17			Total	169
Editor	Vincent				



Z SERVO DRIVE CONNECTION (ACSD SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	81
		Total	169

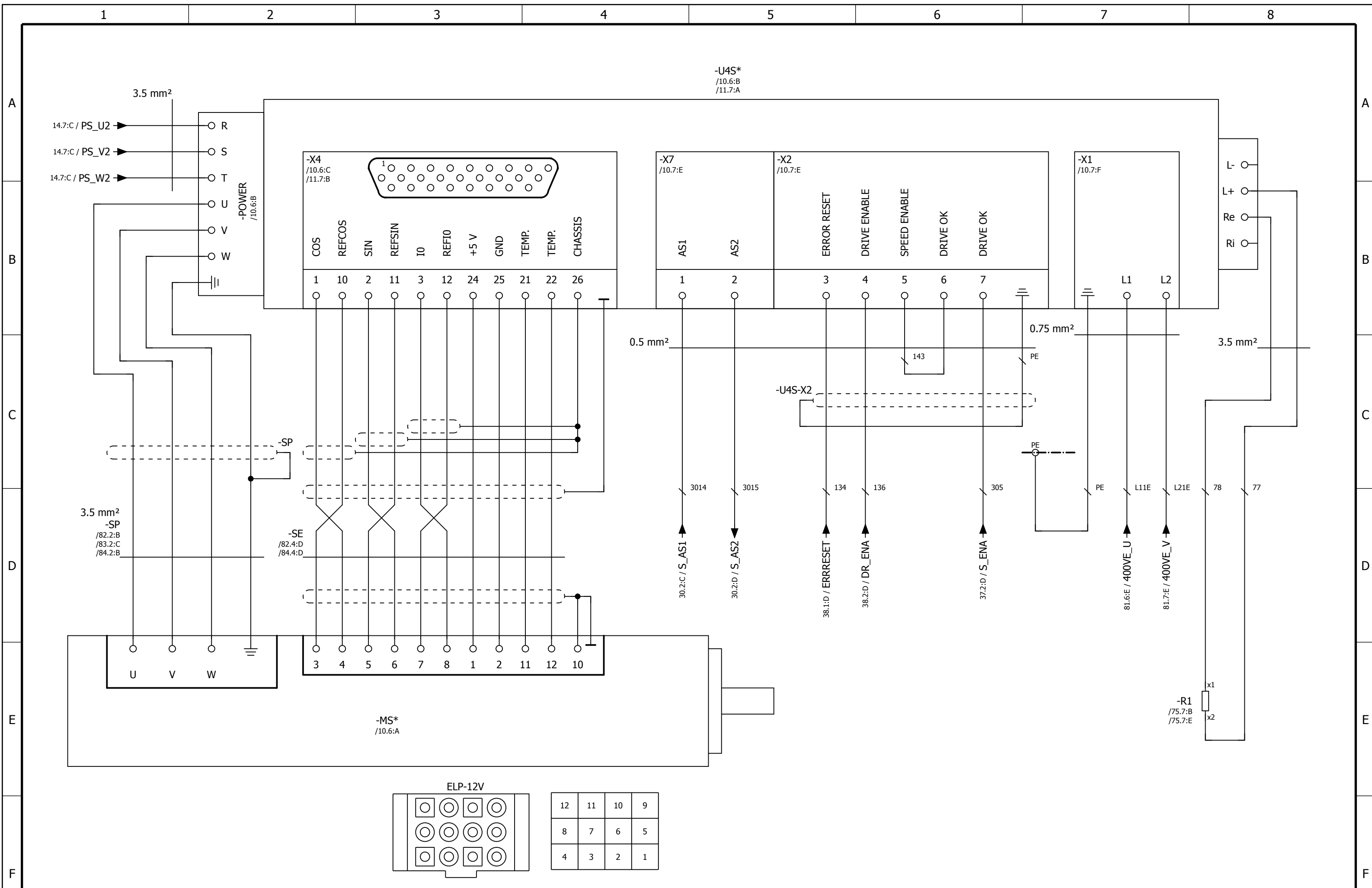


E* : dimension refer to "cable description table" in after



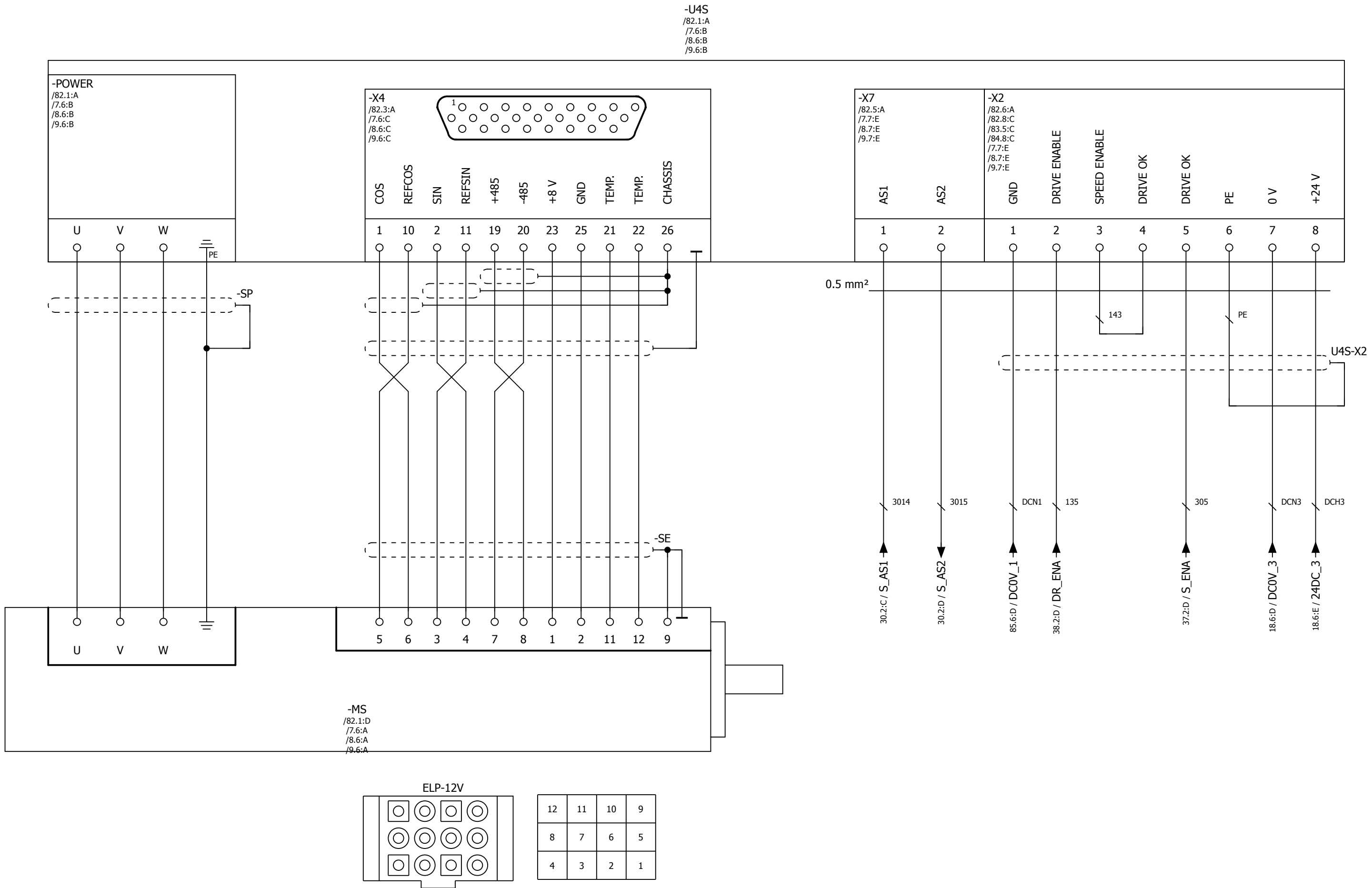
SPINDLE SERVO DRIVE CONNECTION (DDS SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 82
Editor	Vincent		Total 169



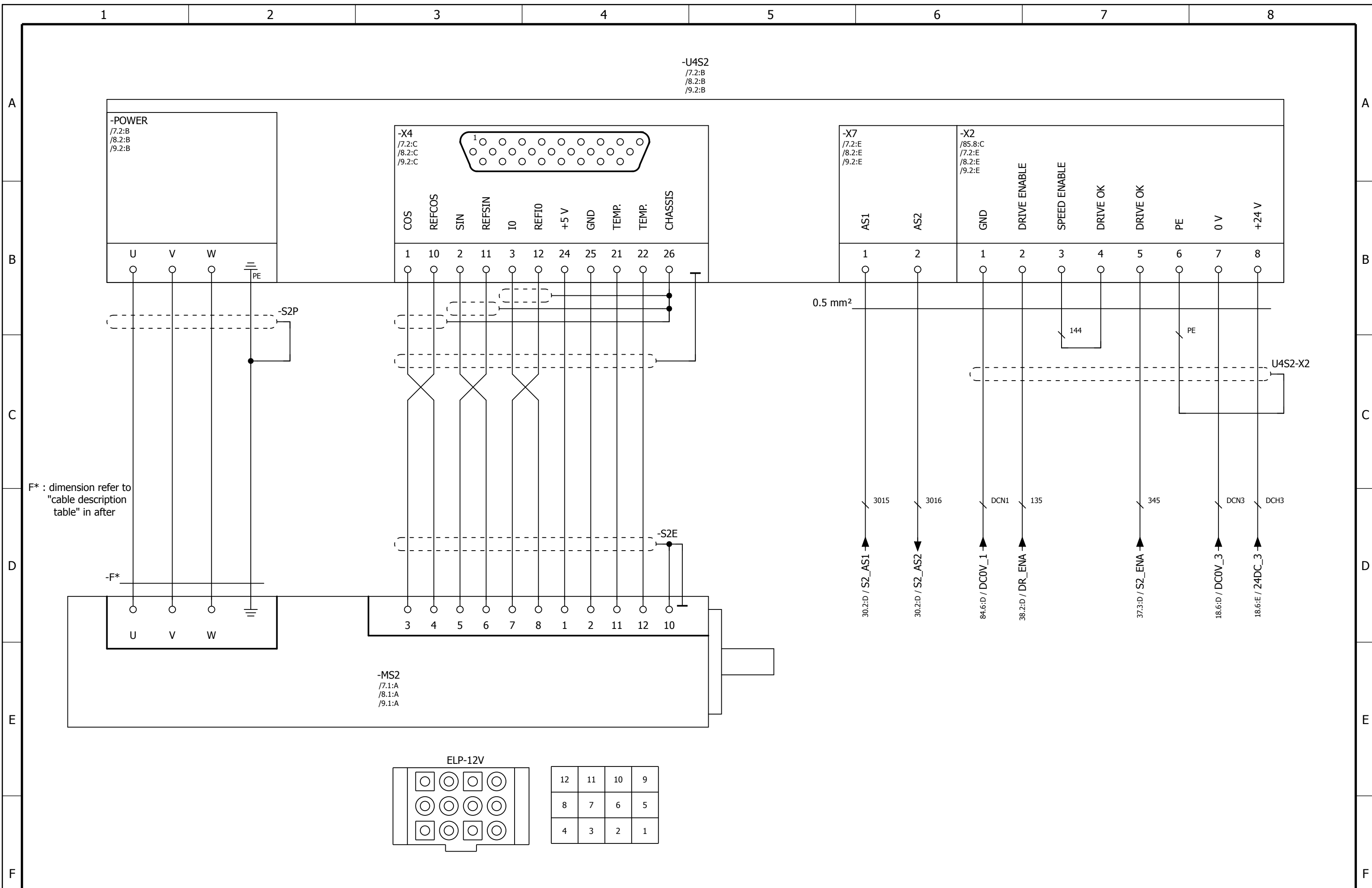
SPINDLE SERVO DRIVE CONNECTION (ACSD SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	83
		Total	169



SPINDLE SERVO DRIVE CONNECTION FOR C AXIS (DDS SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 84
Editor	Vincent		Total 169

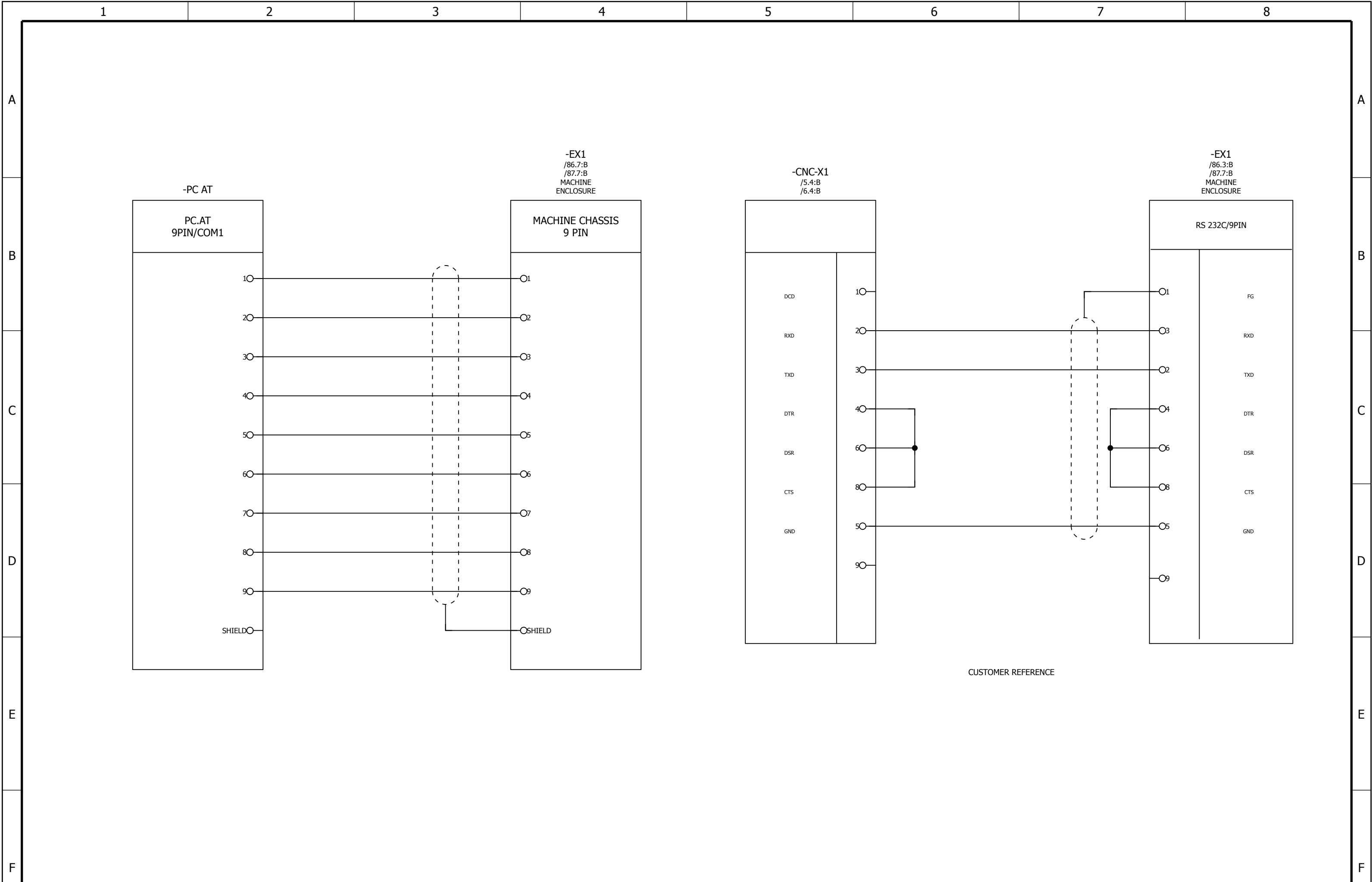


F* : dimension refer to "cable description table" in after



SPINDLE 2 SERVO DRIVE CONNECTION (DDS SYSTEM)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 85
Editor	Vincent		Total 169



RS-232 CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	86
Date	2013.05.17			Total	169
Editor	Vincent				

1

2

3

4

5

6

7

8

A

A

B

B

C

C

D

D

E

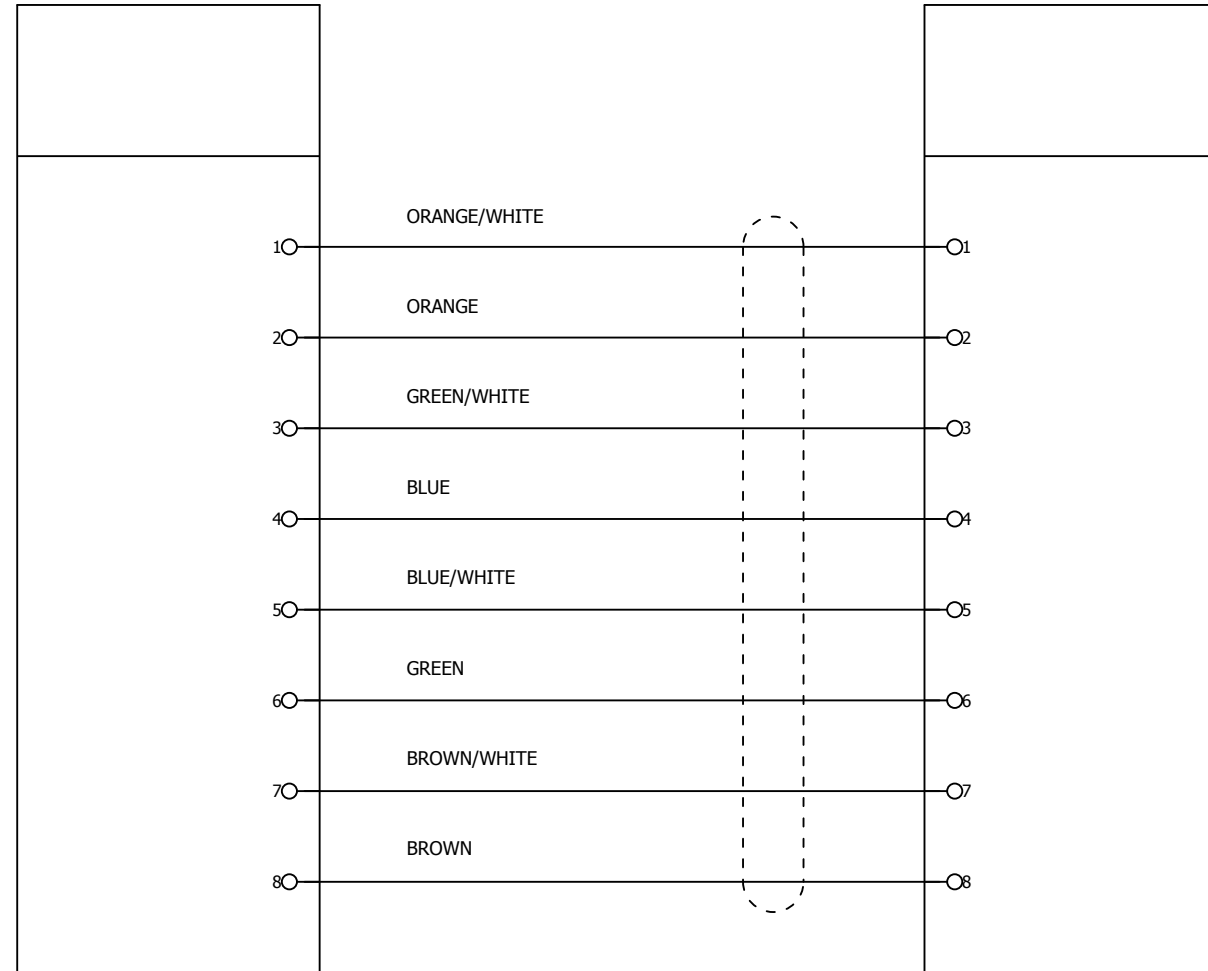
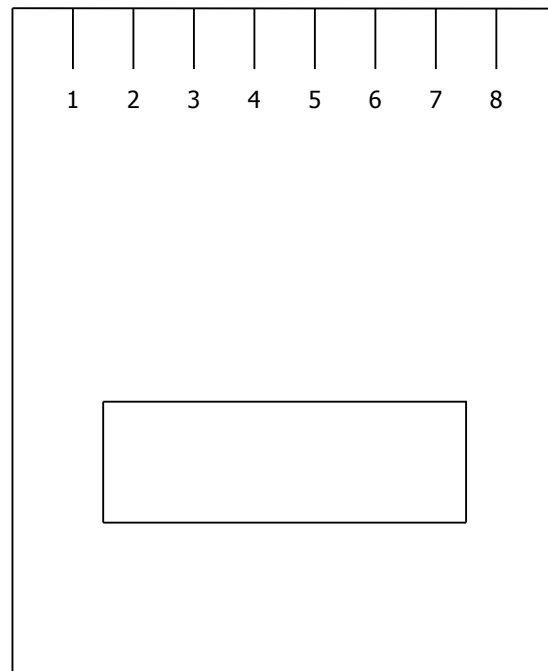
E

F

F

-EX1
/86.3:B
/86.7:B
MACHINE
ENCLOSURE
RJ-45

-RJ45



RJ-45 CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	87
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Editor	Vincent				

1

2

3

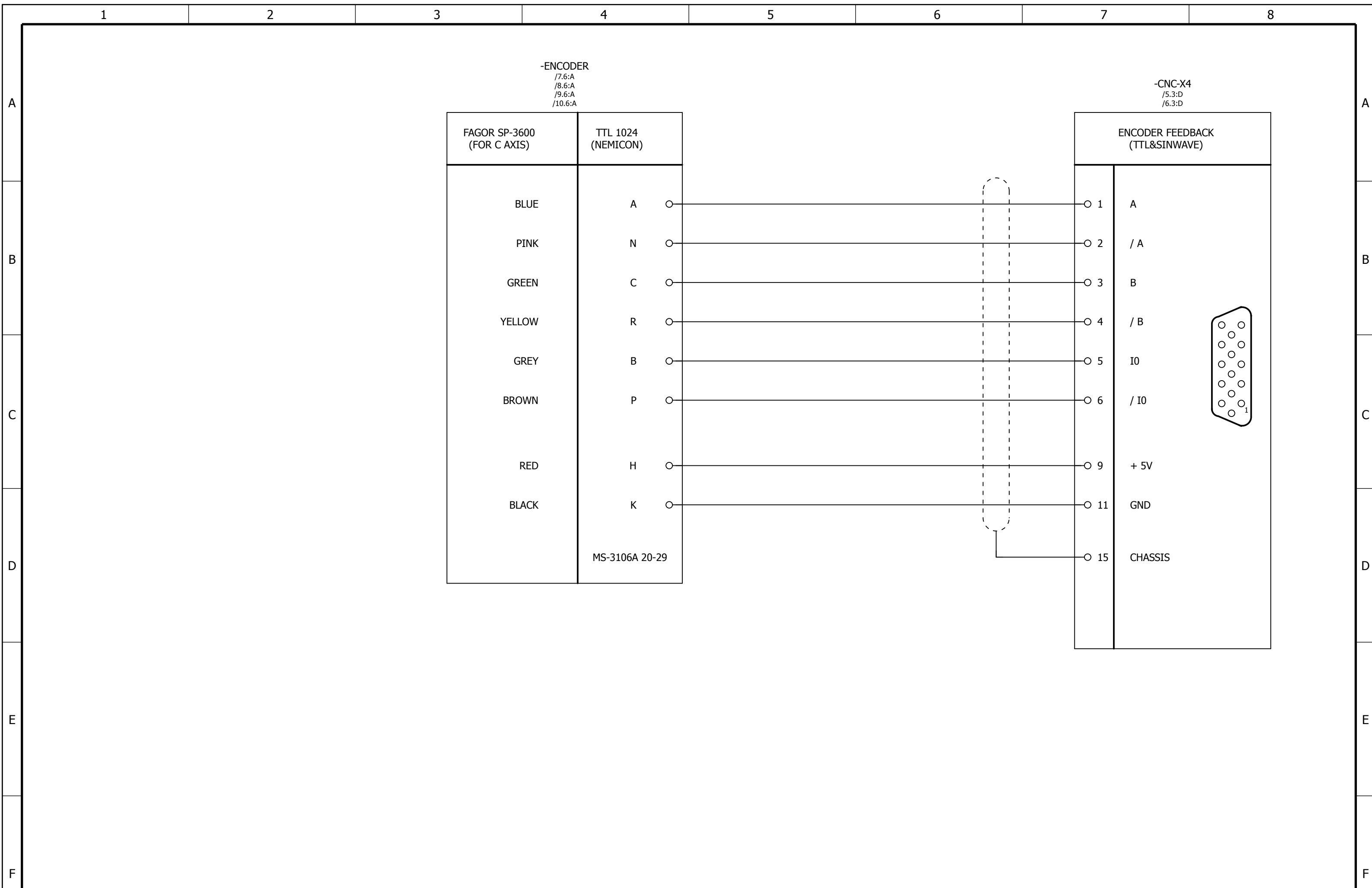
4

5

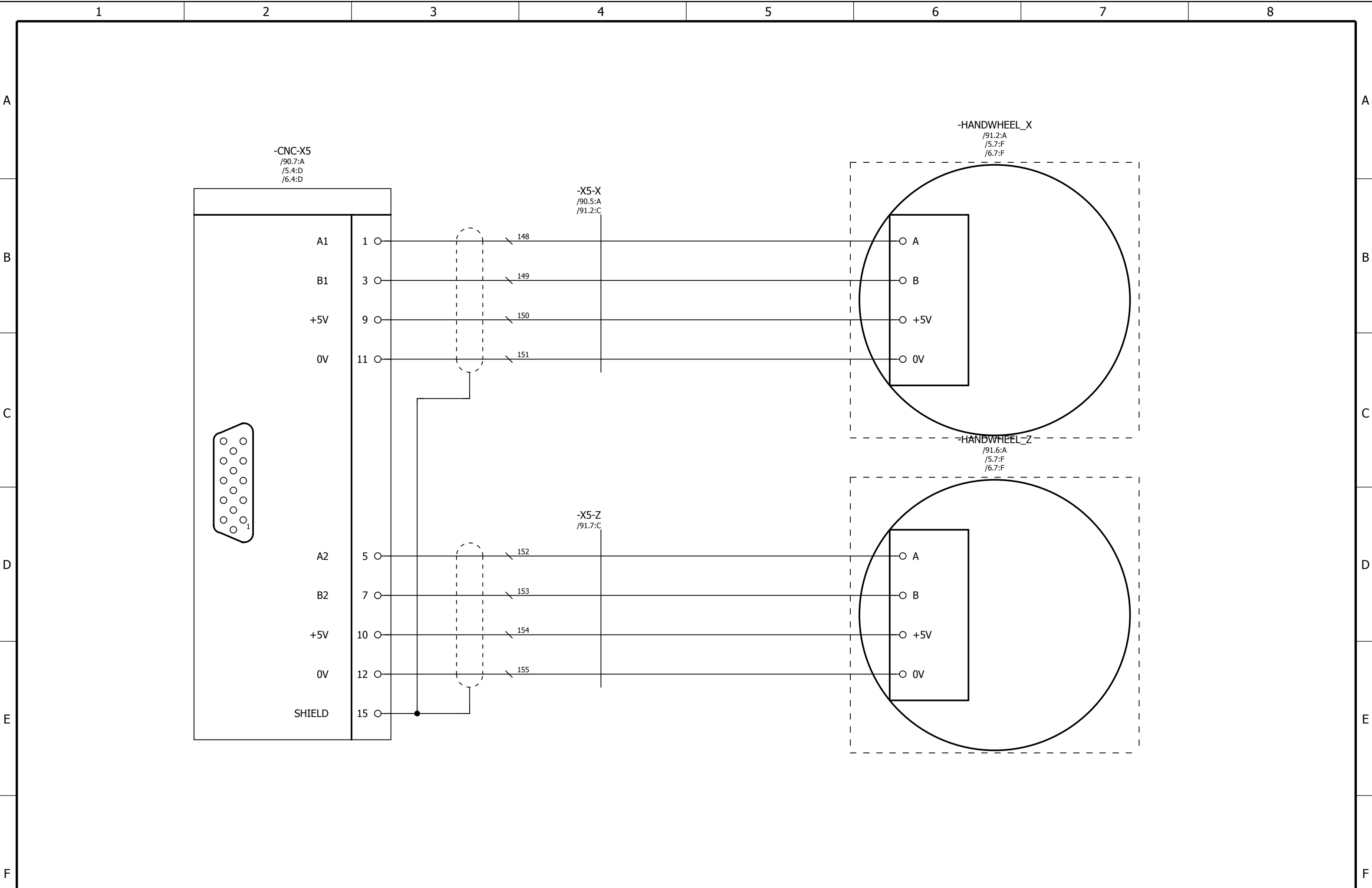
6

7

8

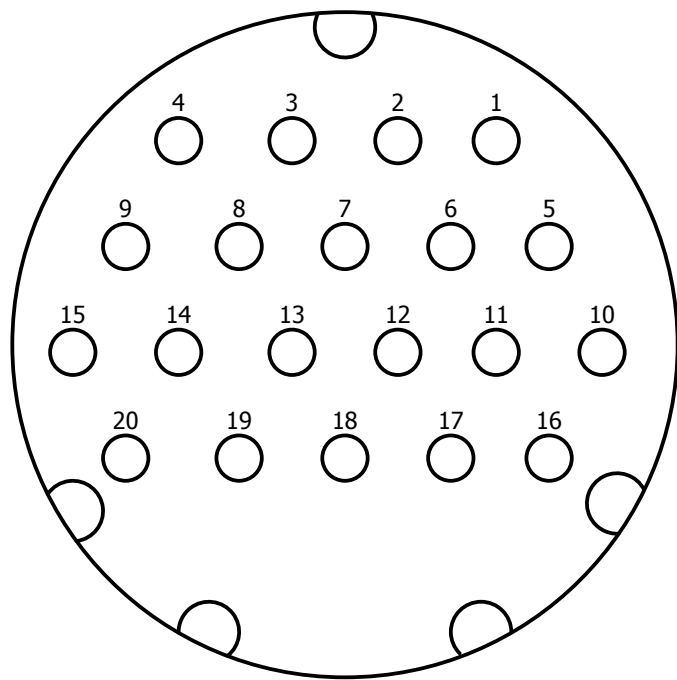


Model	LATHE SERIES	Modification Date	Modification Name	
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Date	2013.05.17			Page 88
Editor	Vincent			Total 169



Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	89
Date	2013.05.17			Total	169
Editor	Vincent				

20 PIN HANDWHEEL CONNECTOR

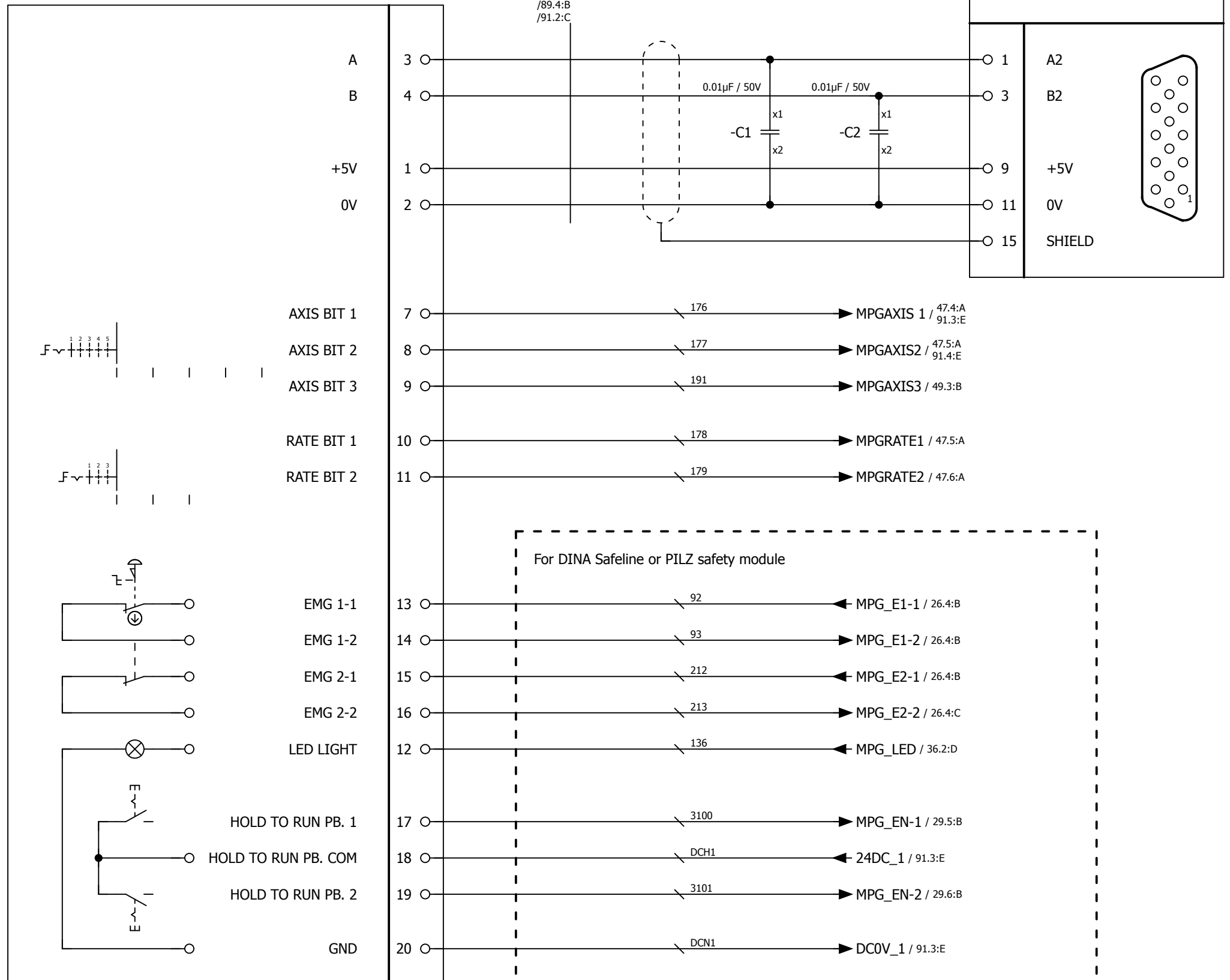


PLS-28

-MPG
/6.8:E
/91.4:A
/5.8:E

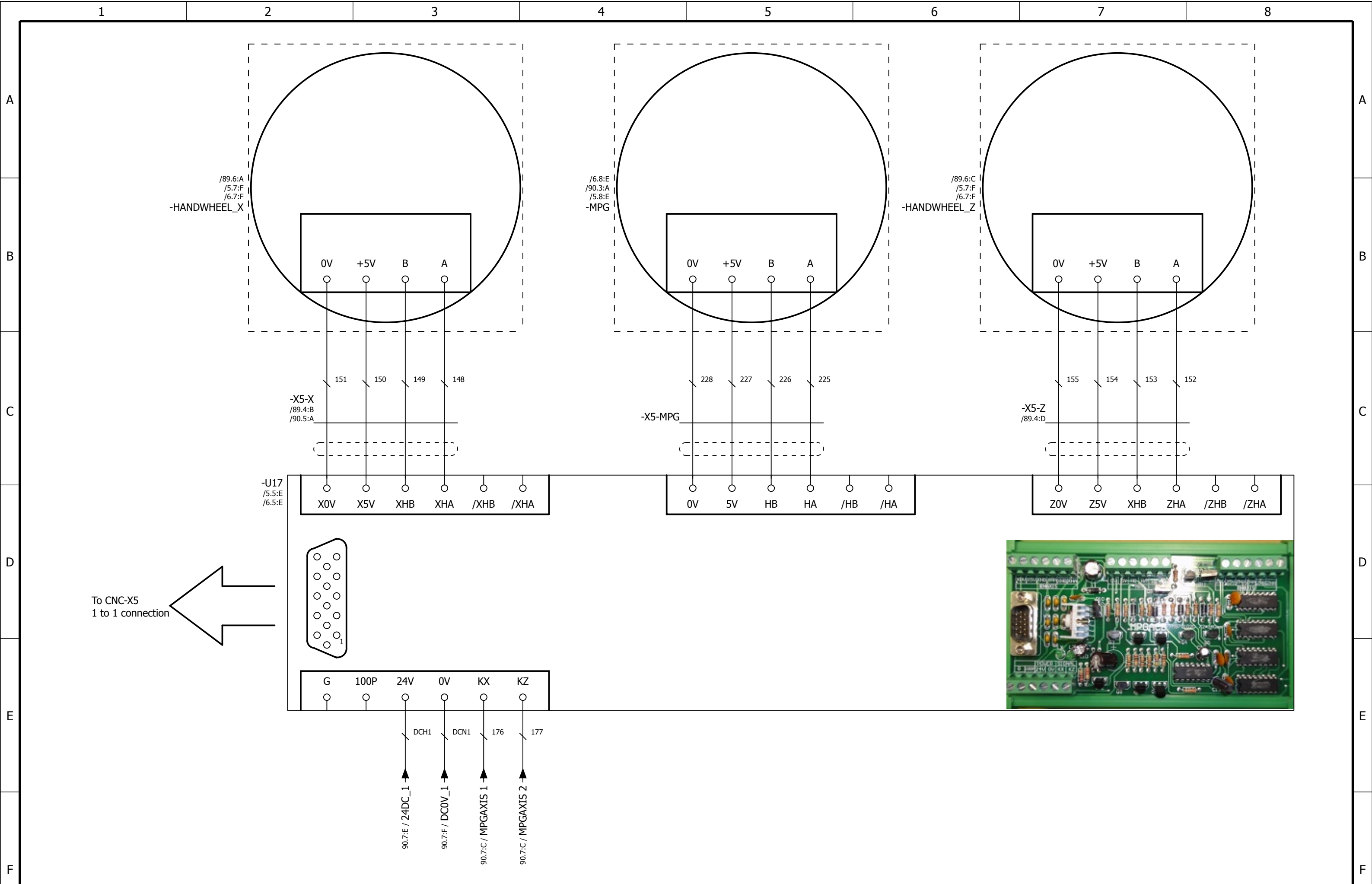
-X5-X
/89.4:B
/91.2:C

-CNC-X5
/89.2:B



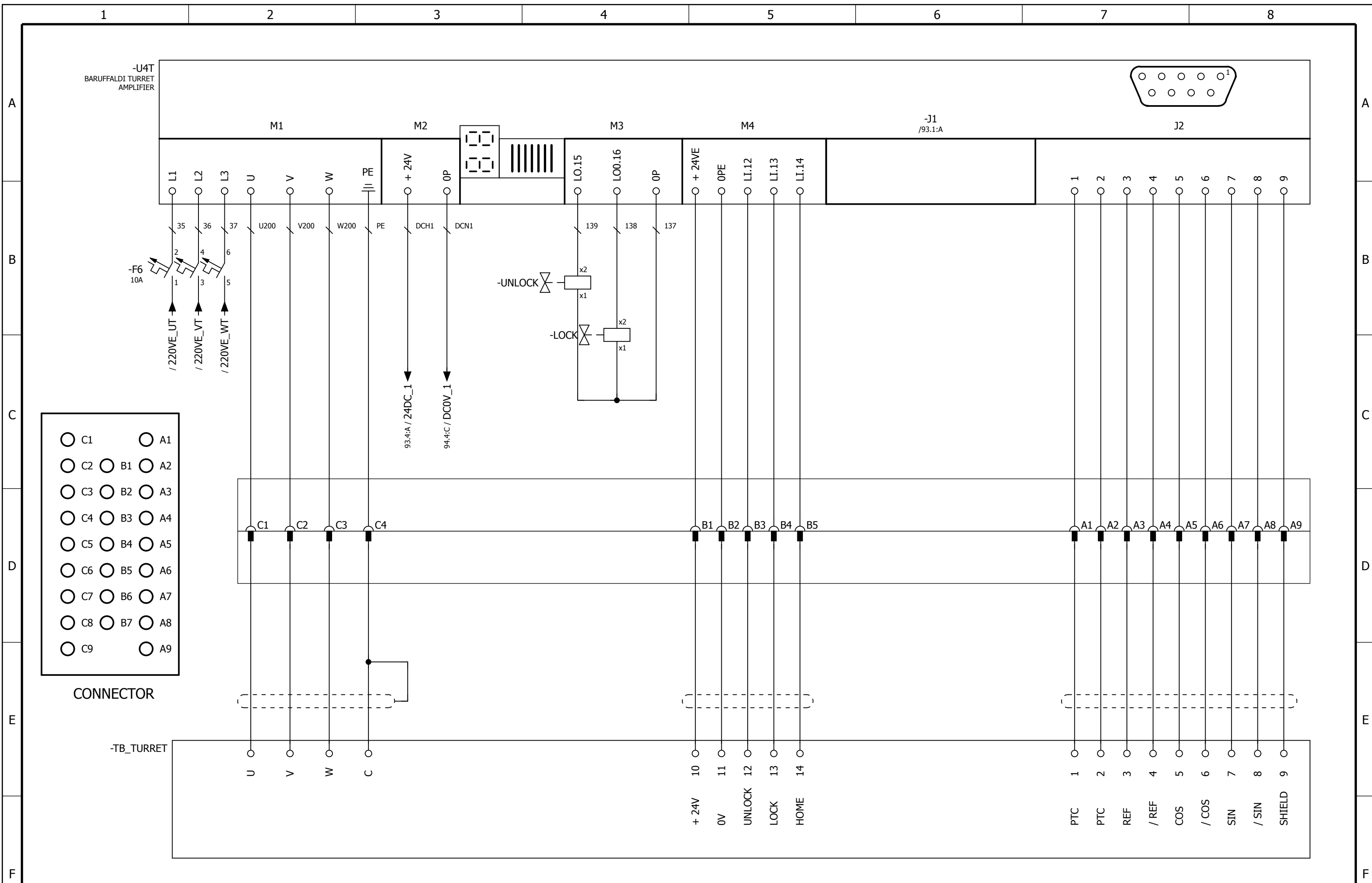
PROTABLE MPG CONNECTION

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100	Rev.	100
Date	2013.05.17	Page	90
Editor	Vincent	Total	169



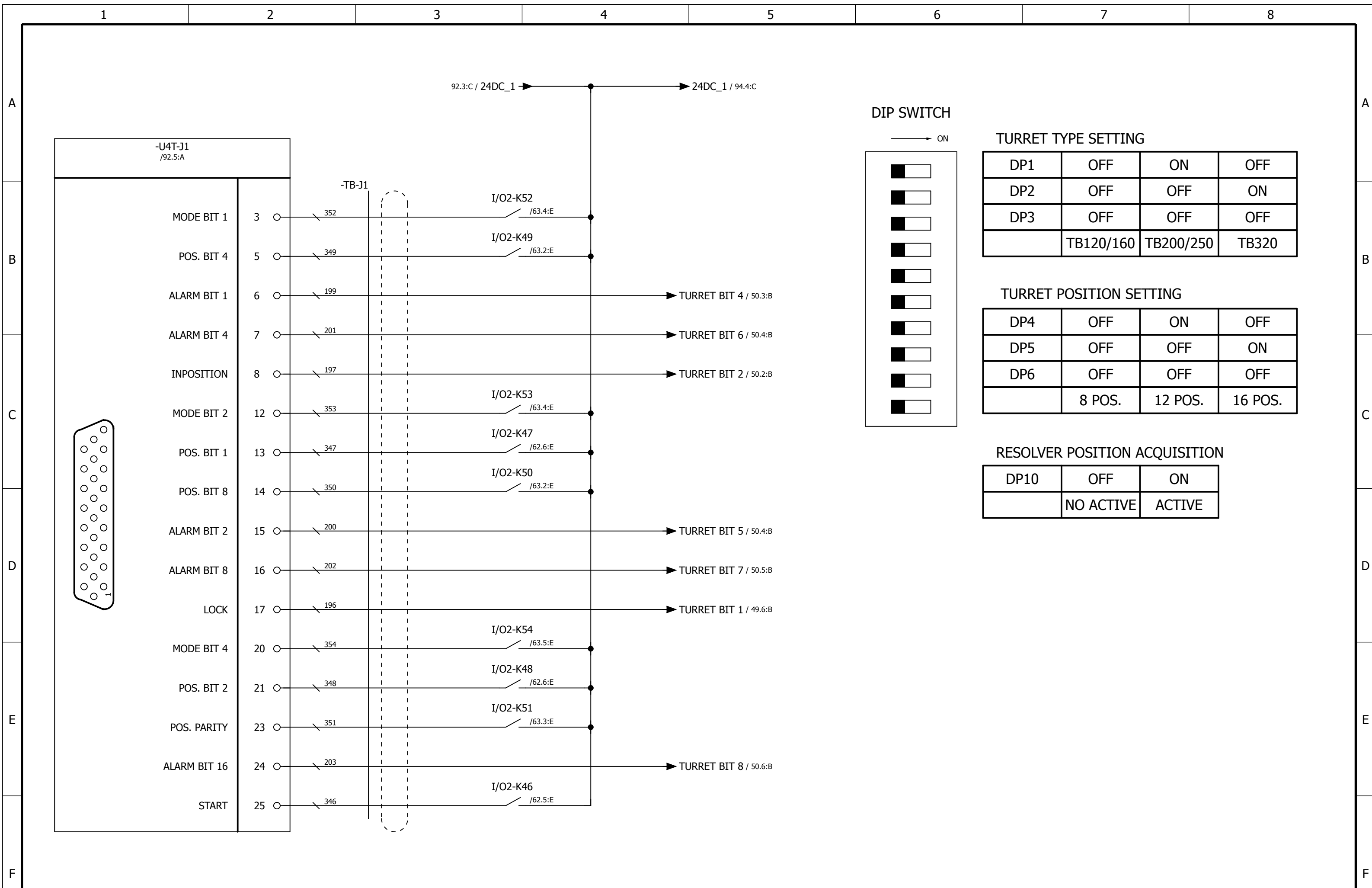
To CNC-X5
1 to 1 connection

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 91
Editor	Vincent		Total 169

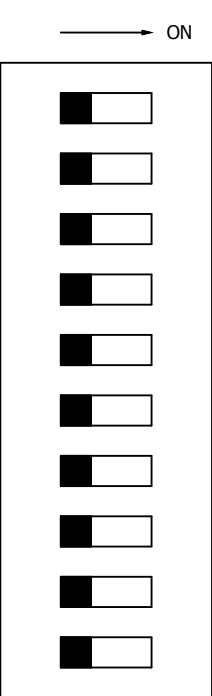


BARUFFALDI TB TURRET AMPLIFIER CONNECTION (OPTION)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 92
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DIP SWITCH



TURRET TYPE SETTING

DP1	OFF	ON	OFF
DP2	OFF	OFF	ON
DP3	OFF	OFF	OFF
	TB120/160	TB200/250	TB320

TURRET POSITION SETTING

DP4	OFF	ON	OFF
DP5	OFF	OFF	ON
DP6	OFF	OFF	OFF
	8 POS.	12 POS.	16 POS.

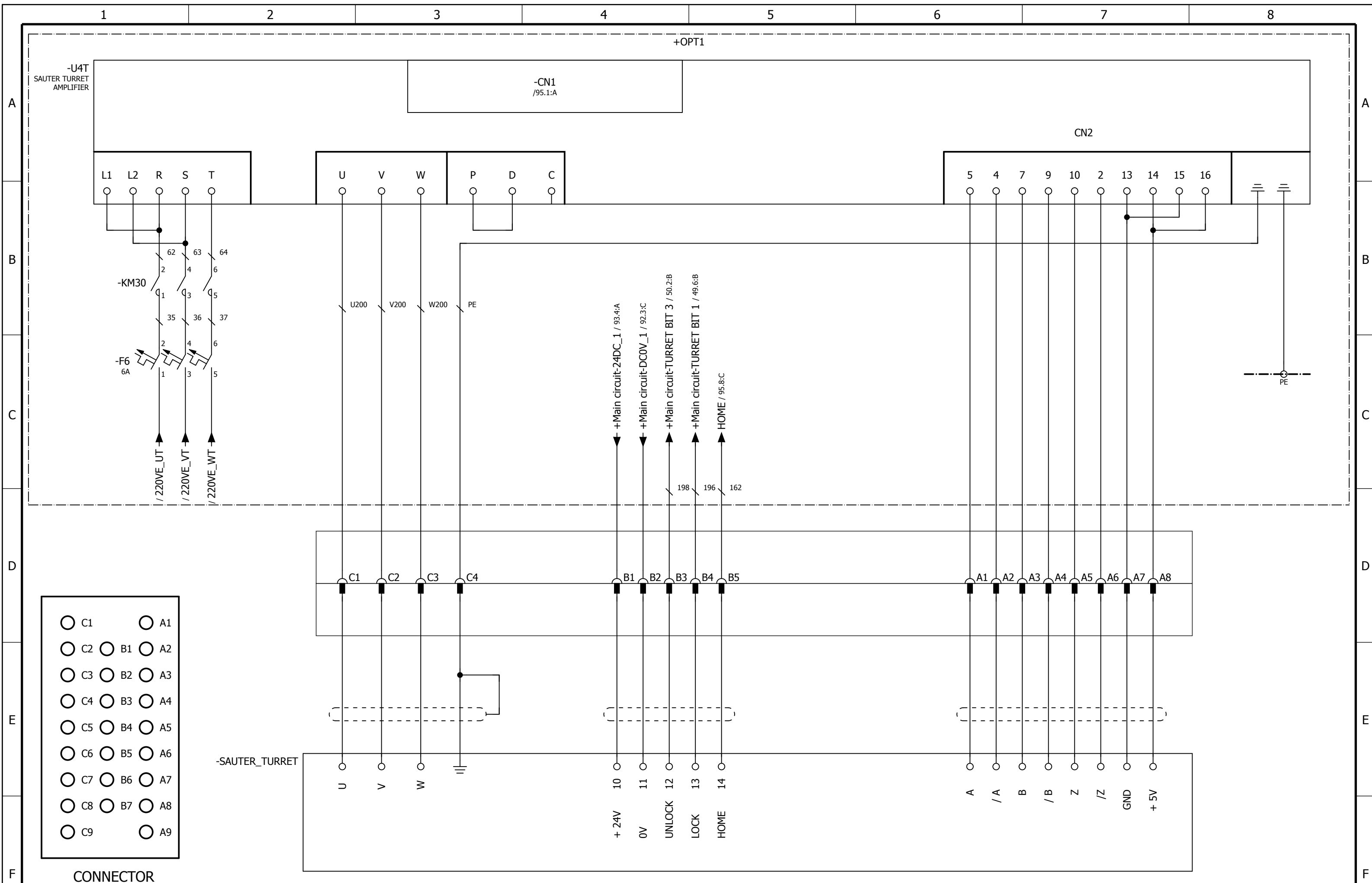
RESOLVER POSITION ACQUISITION

DP10	OFF	ON
	NO ACTIVE	ACTIVE



BARUFFALDI TB TURRET AMPLIFIER CONNECTION (OPTION)

Model	LATHE SERIES	Modification Date	Modification Name	
Drawing No.	L00-0091-100			Rev. 100
Date	2013.05.17			Page 93
Editor	Vincent			Total 169



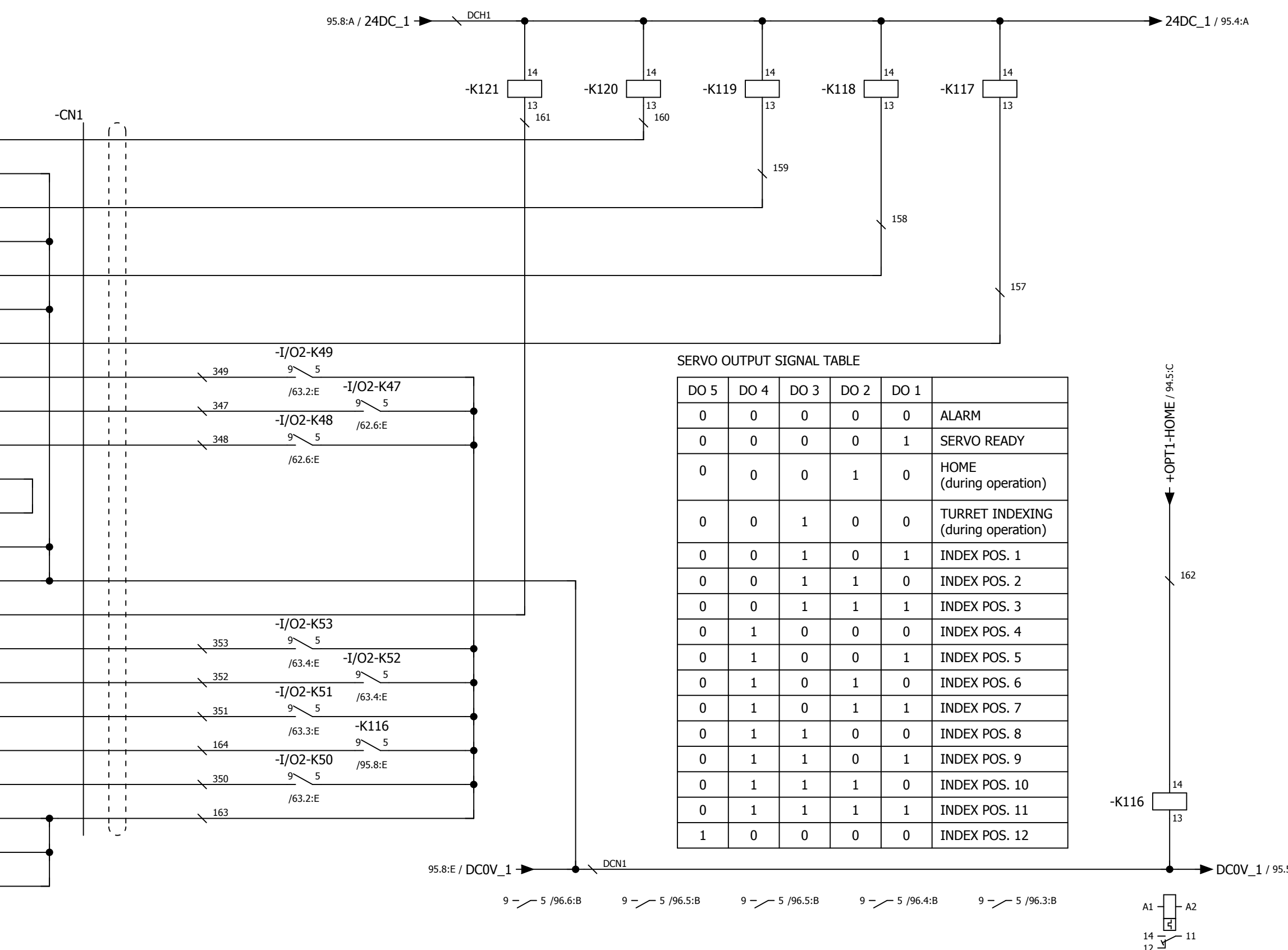
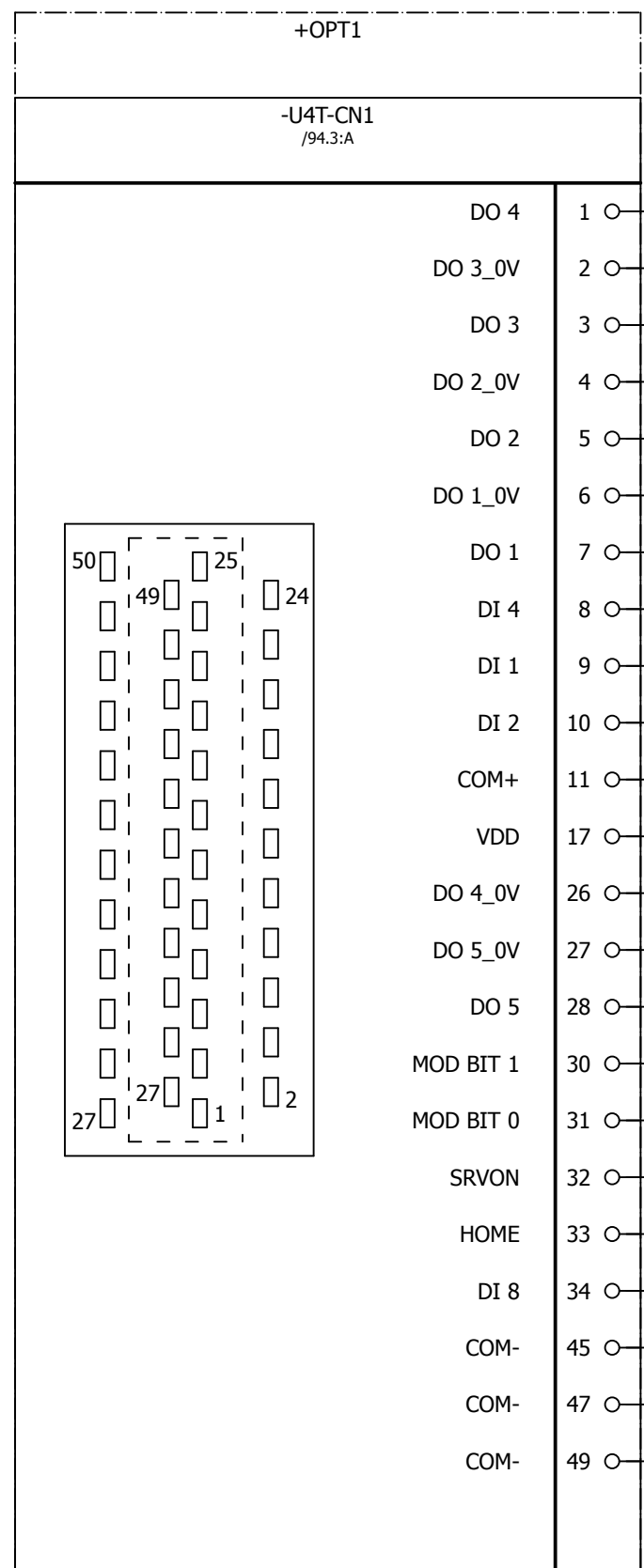
- C1 ○ A1
- C2 ○ B1 ○ A2
- C3 ○ B2 ○ A3
- C4 ○ B3 ○ A4
- C5 ○ B4 ○ A5
- C6 ○ B5 ○ A6
- C7 ○ B6 ○ A7
- C8 ○ B7 ○ A8
- C9 ○ A9

CONNECTOR



SAUTER TURRET AMPLIFIER
CONNECTION (OPTION)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 94
Editor	Vincent		Total 169



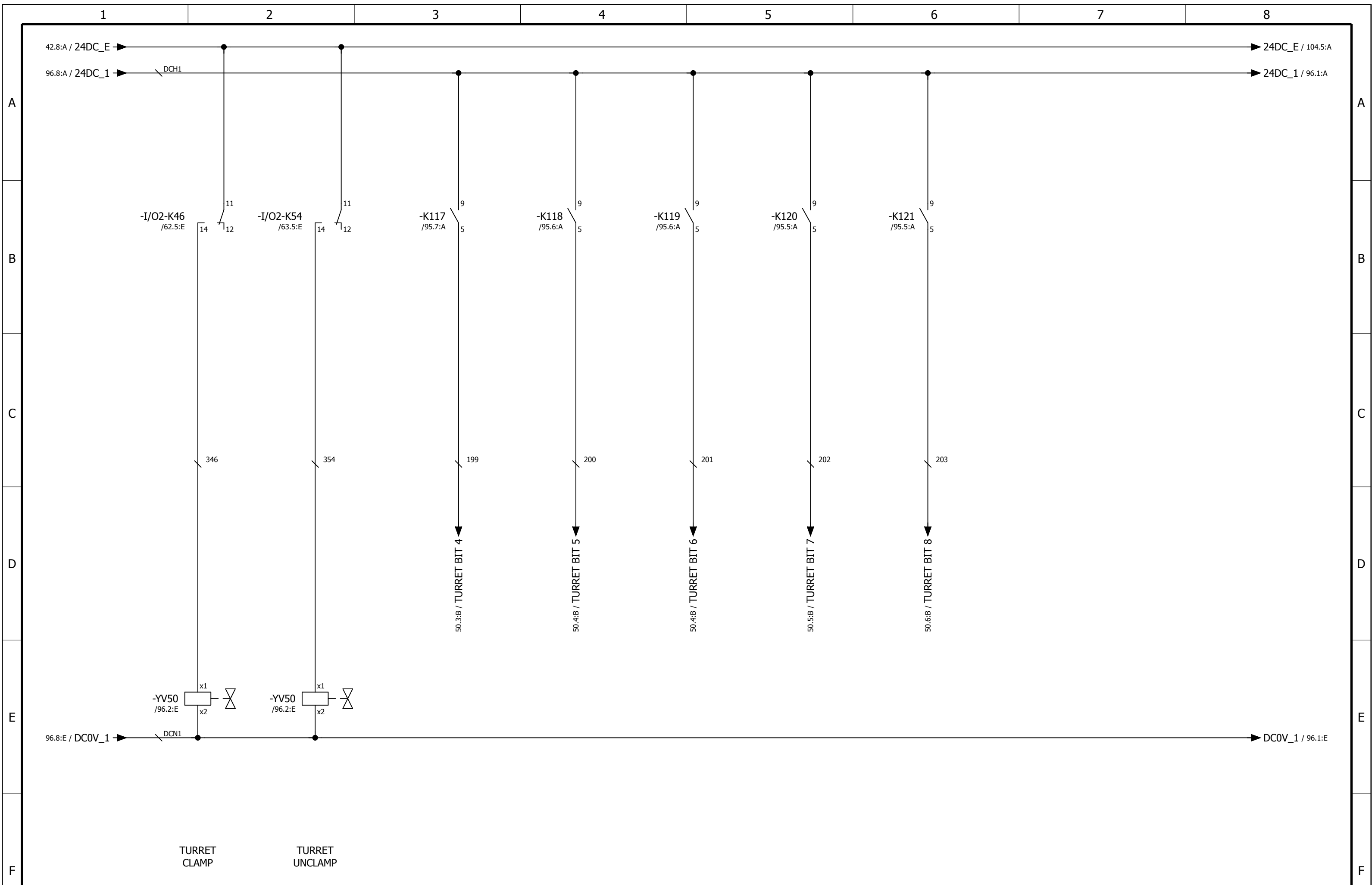
SERVO OUTPUT SIGNAL TABLE

DO 5	DO 4	DO 3	DO 2	DO 1	
0	0	0	0	0	ALARM
0	0	0	0	1	SERVO READY
0	0	0	1	0	HOME (during operation)
0	0	1	0	0	TURRET INDEXING (during operation)
0	0	1	0	1	INDEX POS. 1
0	0	1	1	0	INDEX POS. 2
0	0	1	1	1	INDEX POS. 3
0	1	0	0	0	INDEX POS. 4
0	1	0	0	1	INDEX POS. 5
0	1	0	1	0	INDEX POS. 6
0	1	0	1	1	INDEX POS. 7
0	1	1	0	0	INDEX POS. 8
0	1	1	0	1	INDEX POS. 9
0	1	1	1	0	INDEX POS. 10
0	1	1	1	1	INDEX POS. 11
1	0	0	0	0	INDEX POS. 12



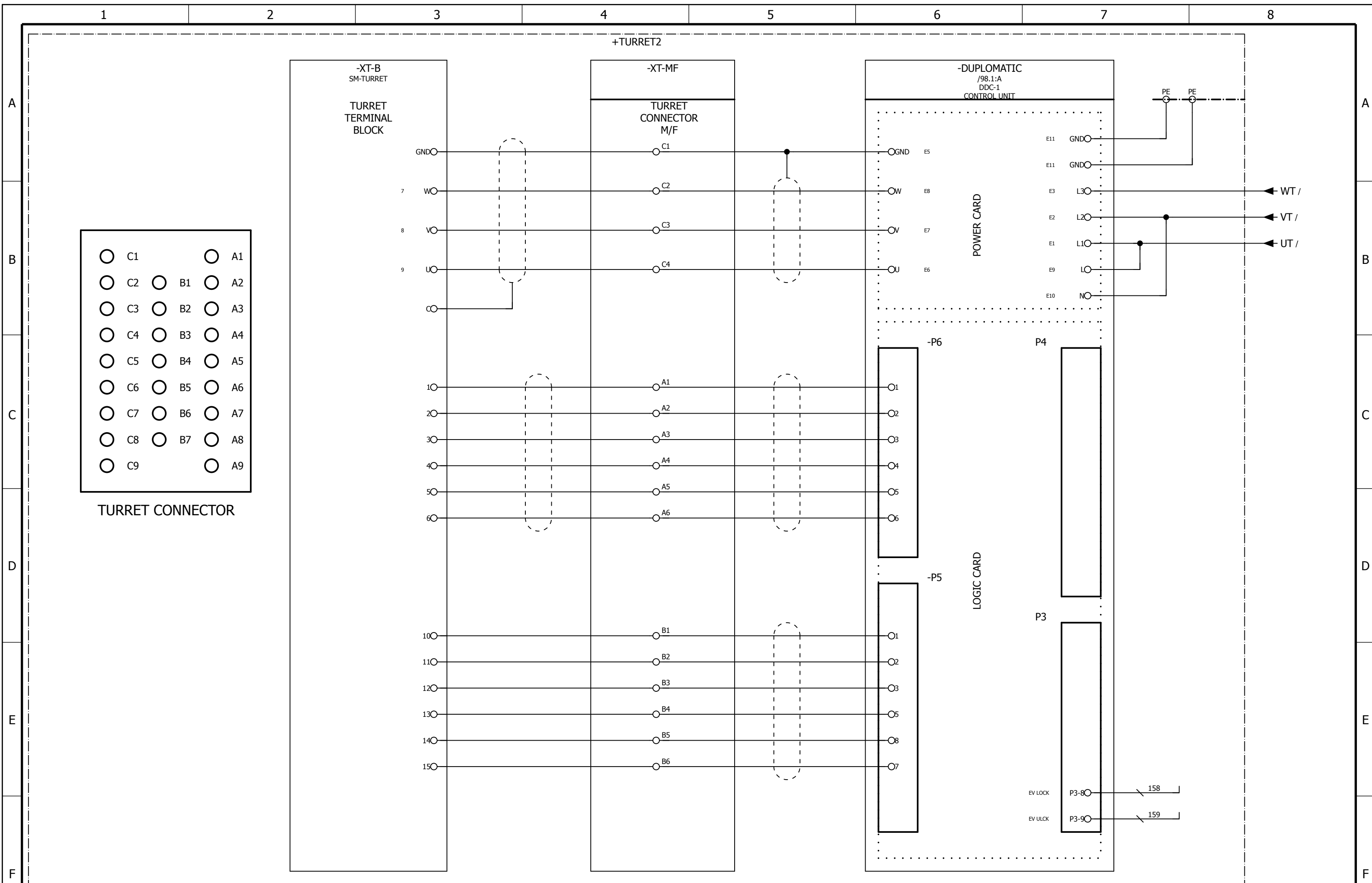
SAUTER TURRET AMPLIFIER CONNECTION (OPTION)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	95
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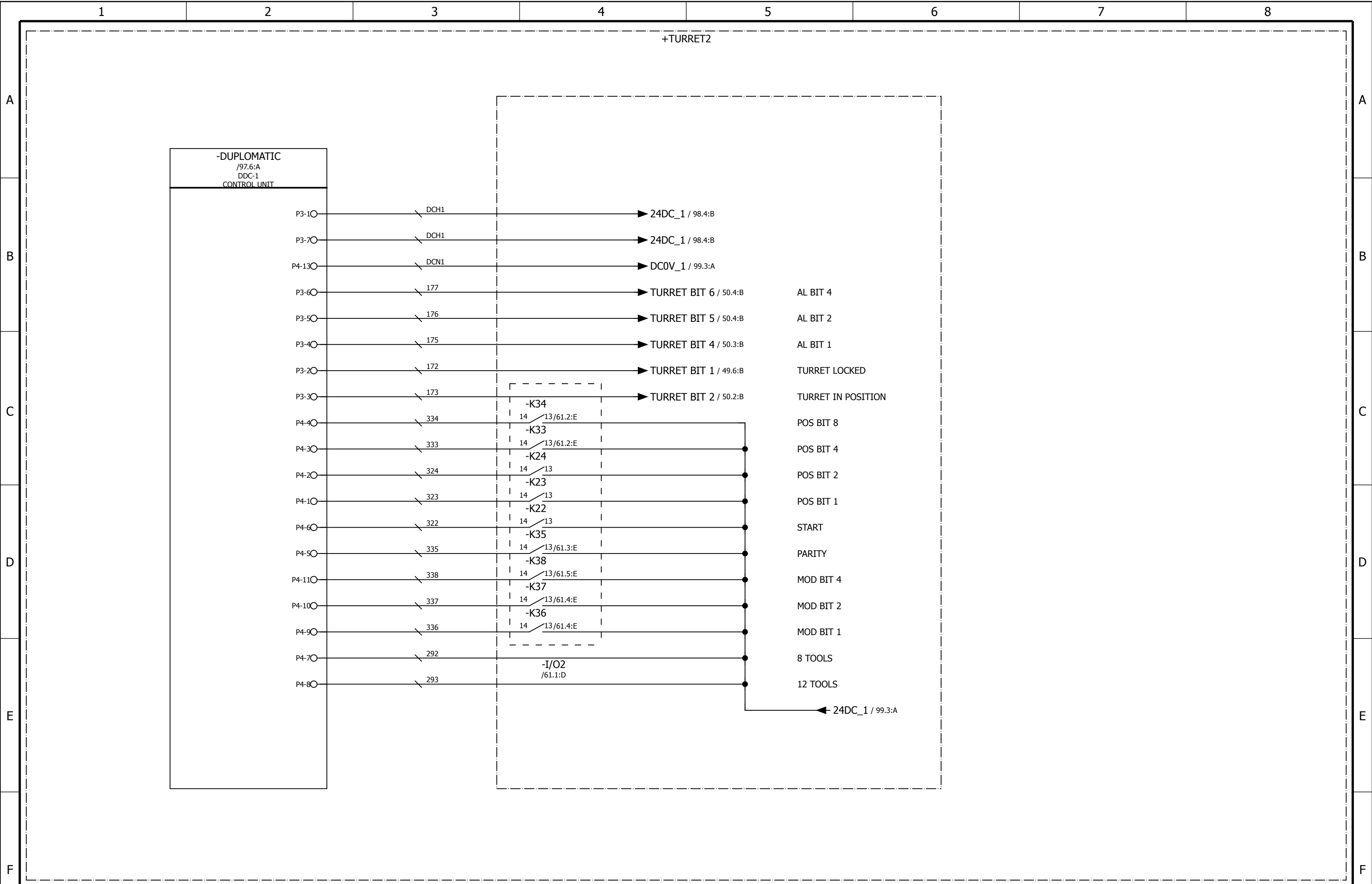
SAUTER TURRET AMPLIFIER
CONNECTION (OPTION)

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page 96
Editor	Vincent		Total 169



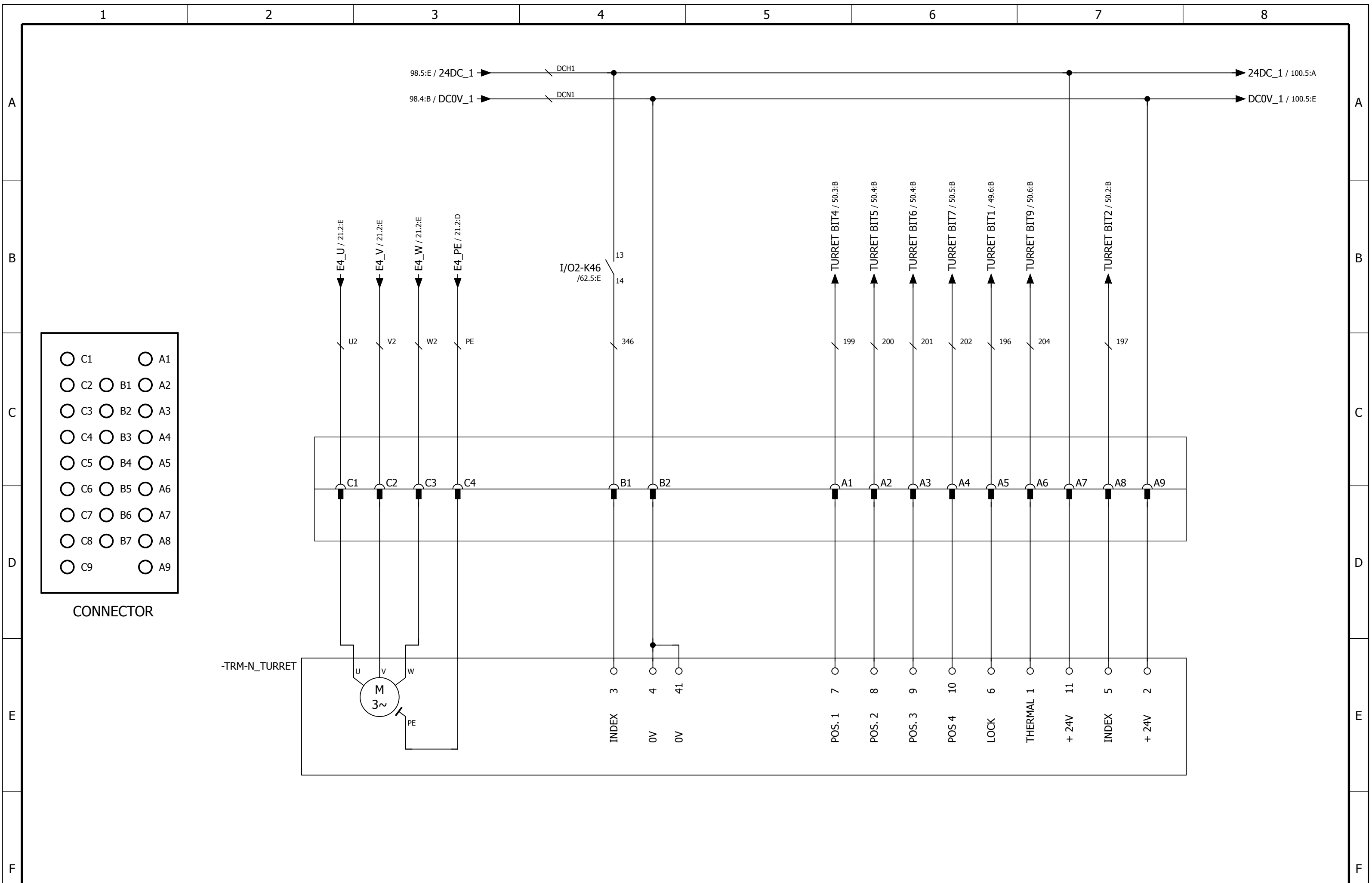
**DIPLOMATIC TURRET AMPLIFIER
CONNECTION (OPTION)**

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		Rev. 100
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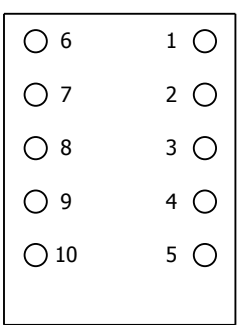
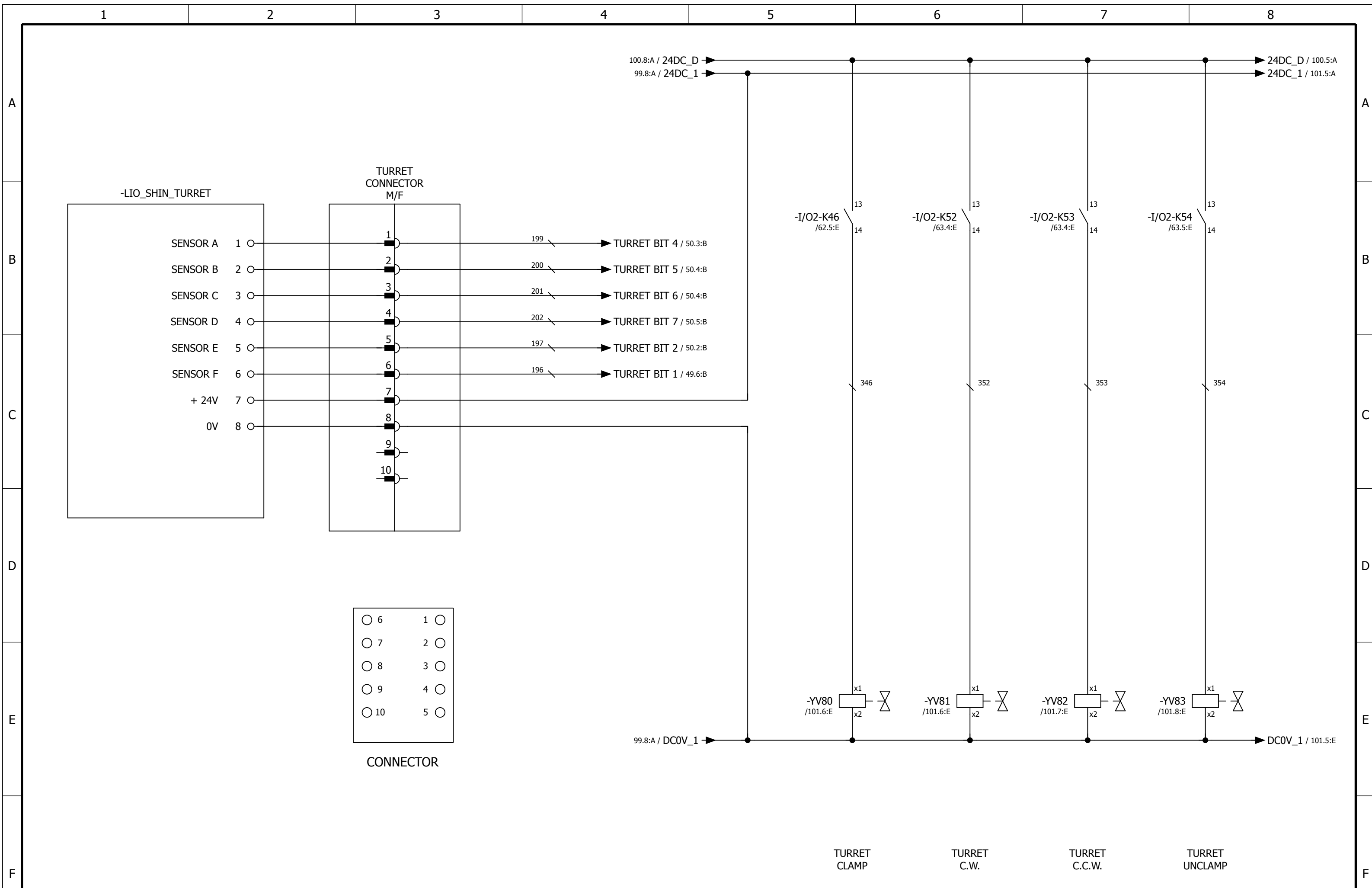
DUPLOMATIC TURRET AMPLIFIER
V3 SUB D CONNECTION (OPTION)

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DIPLOMATIC TRM-N SERIES
4 WAY TOOL POST

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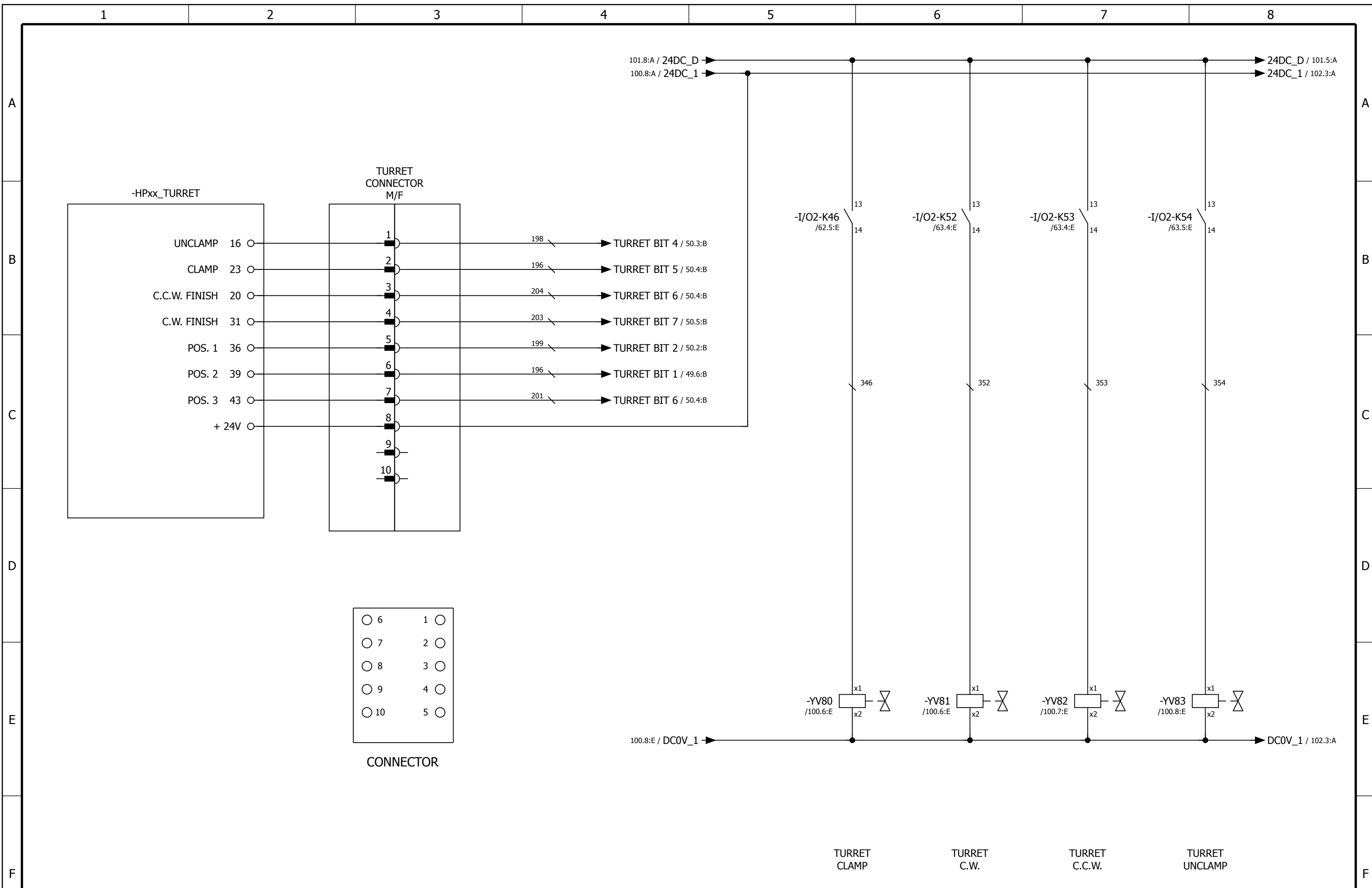
CONNECTOR

TURRET CLAMP	TURRET C.W.	TURRET C.C.W.	TURRET UNCLAMP
--------------	-------------	---------------	----------------



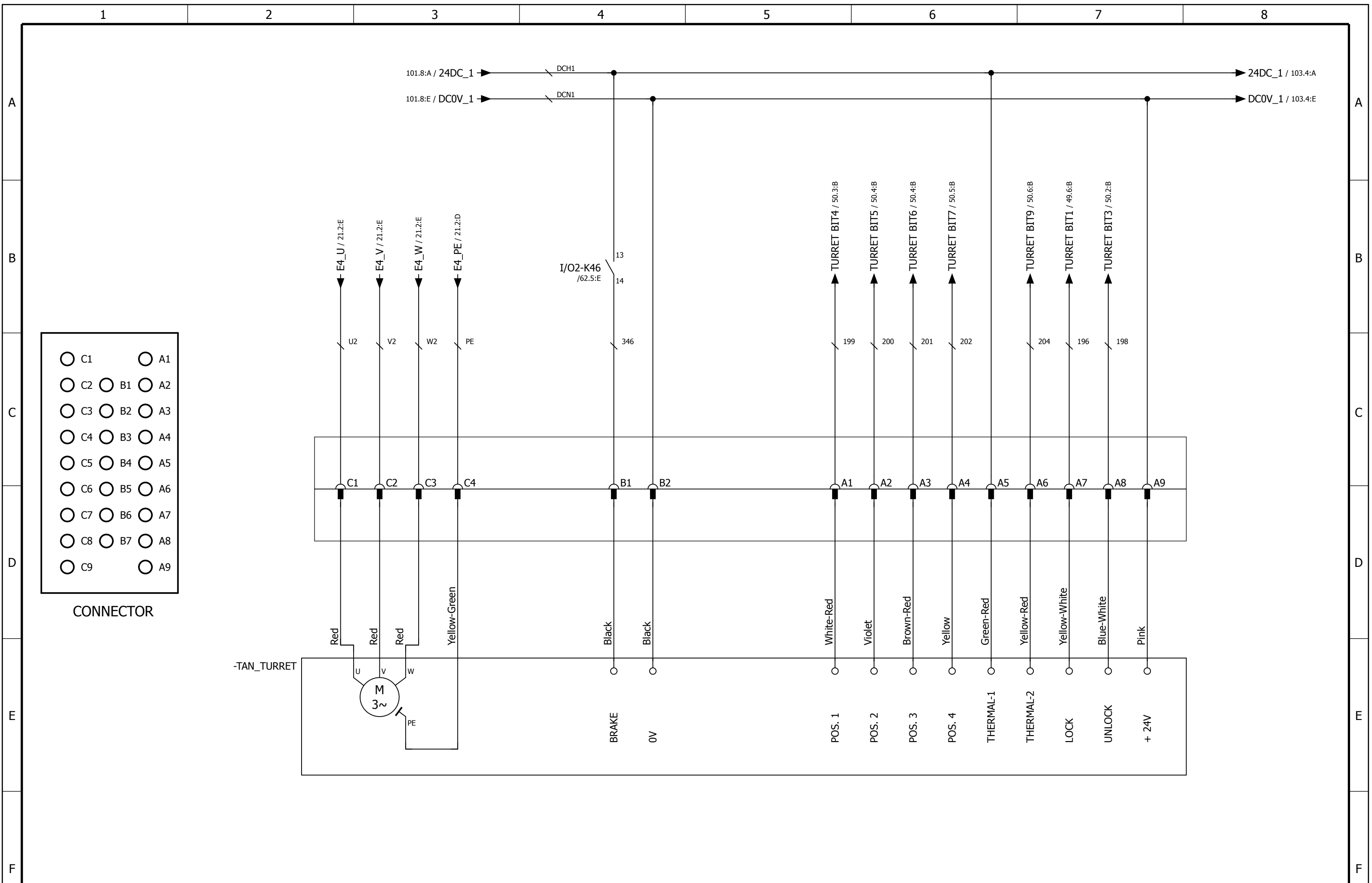
LIO SIN HYDRAULIC TURRET (HV8 / HV12)

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**GOLDEN SUN HYDRAULIC 4 WAY
TOOL POST (HP SERIES)**

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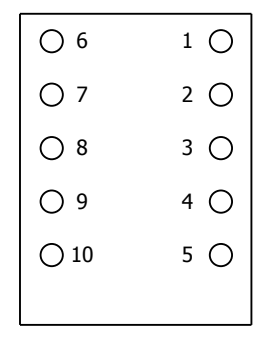
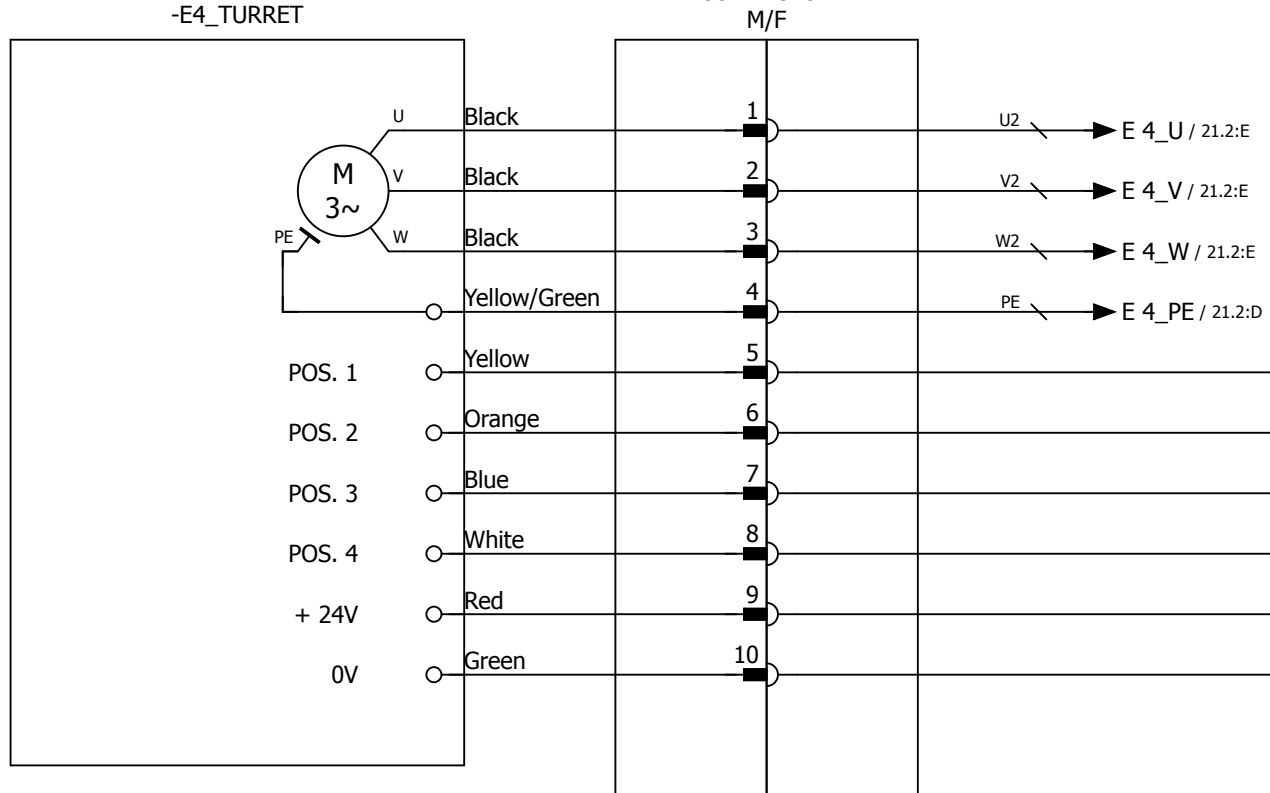
○ C1	○ A1
○ C2	○ B1
○ C3	○ B2
○ C4	○ B3
○ C5	○ B4
○ C6	○ B5
○ C7	○ B6
○ C8	○ B7
○ C9	○ A9

CONNECTOR

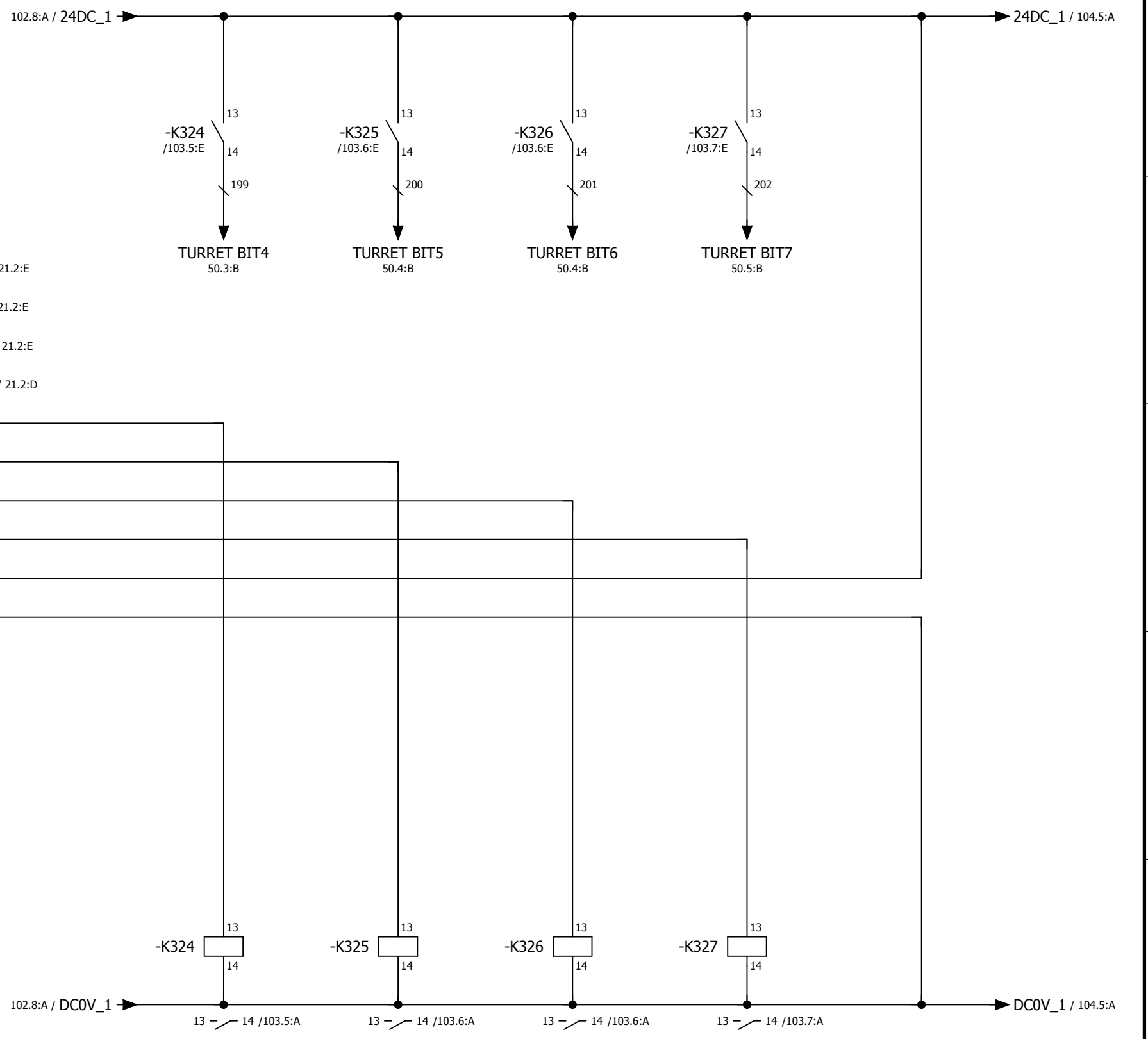


BARUFFALDI TAN SERIES 4 WAY
TOOL POST

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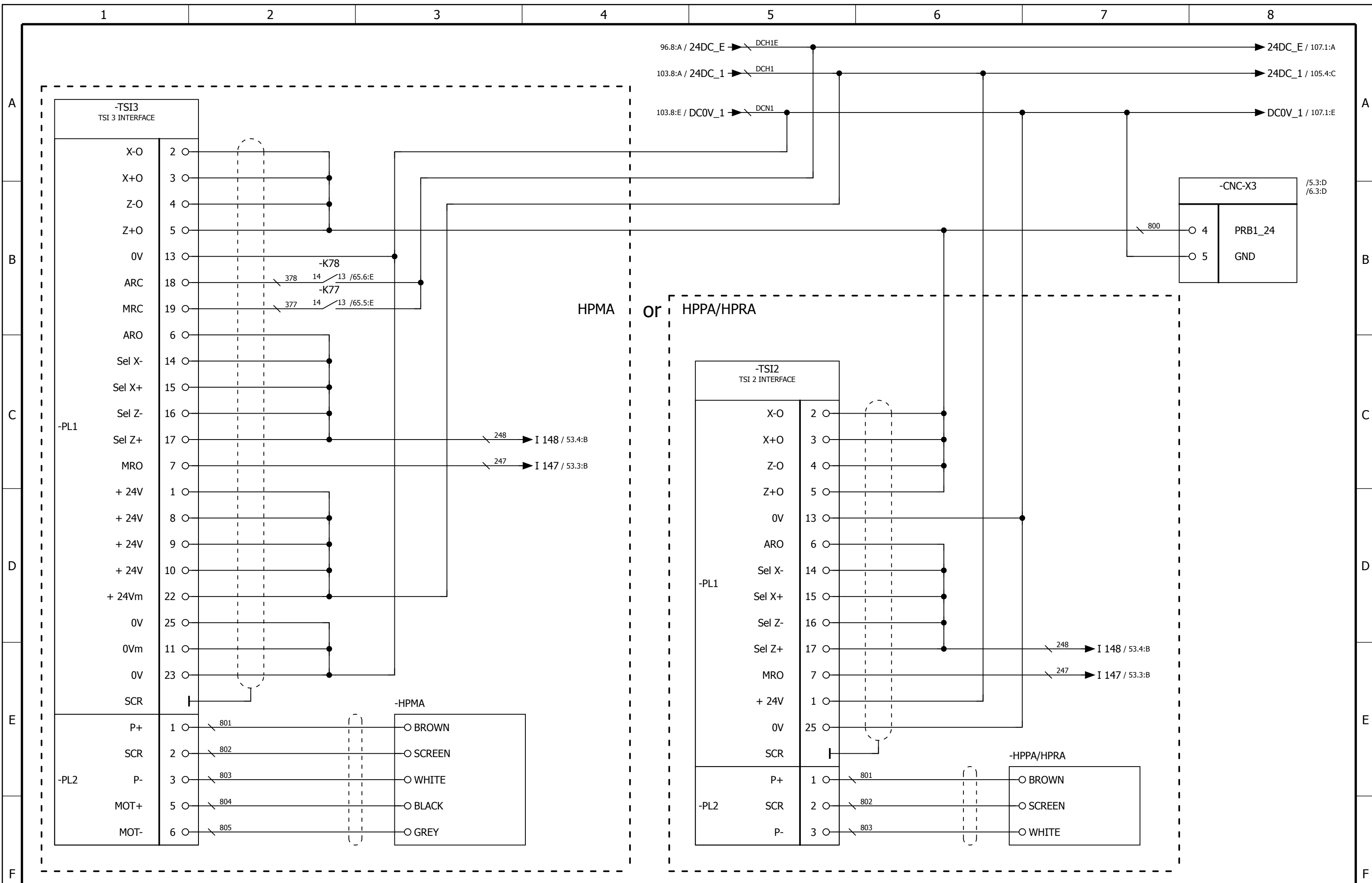


CONNECTOR



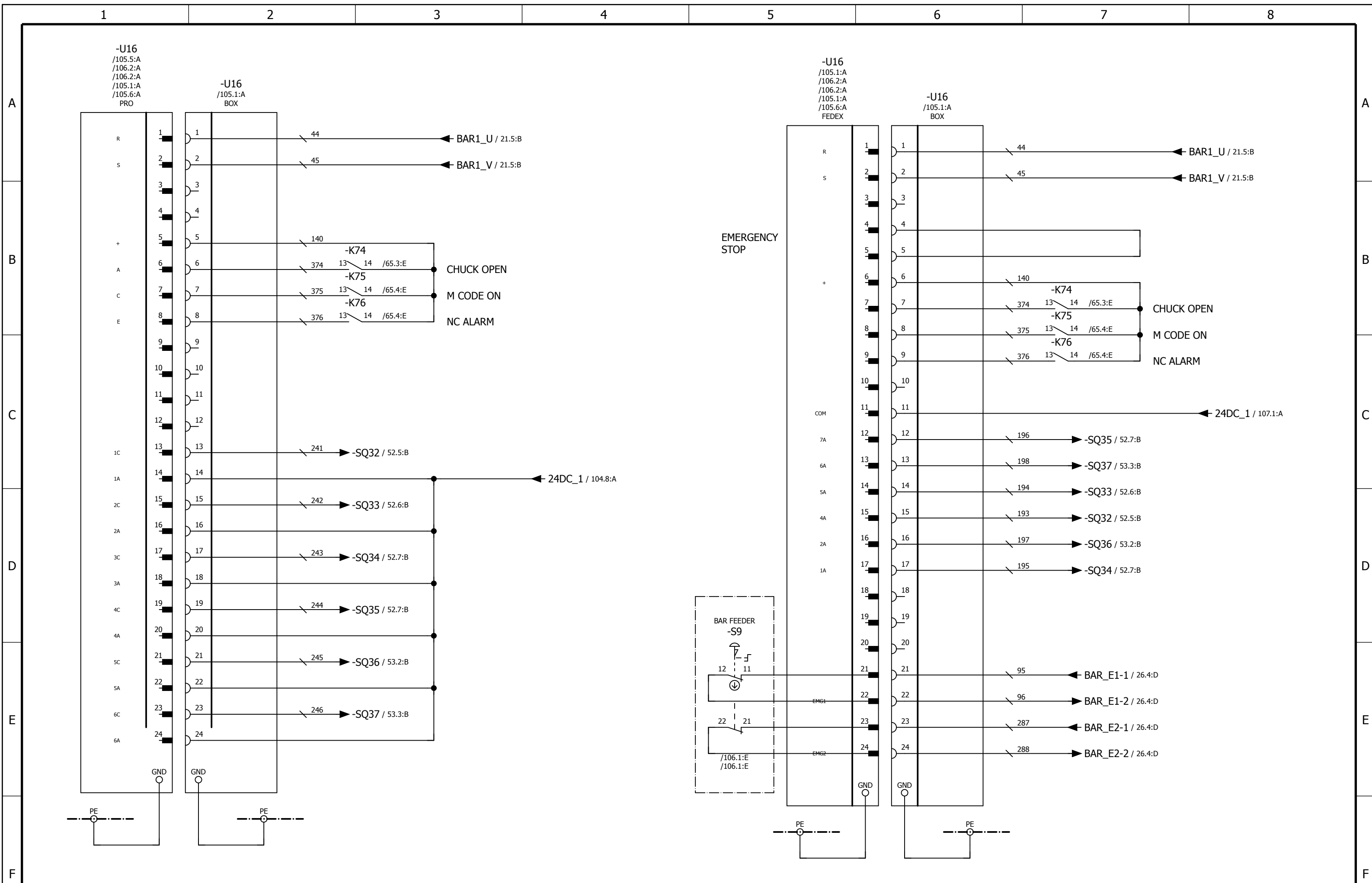
ELECTRIC 4 WAY TOOL POST

Model	LATHE SERIES	Modification Date	Modification Name
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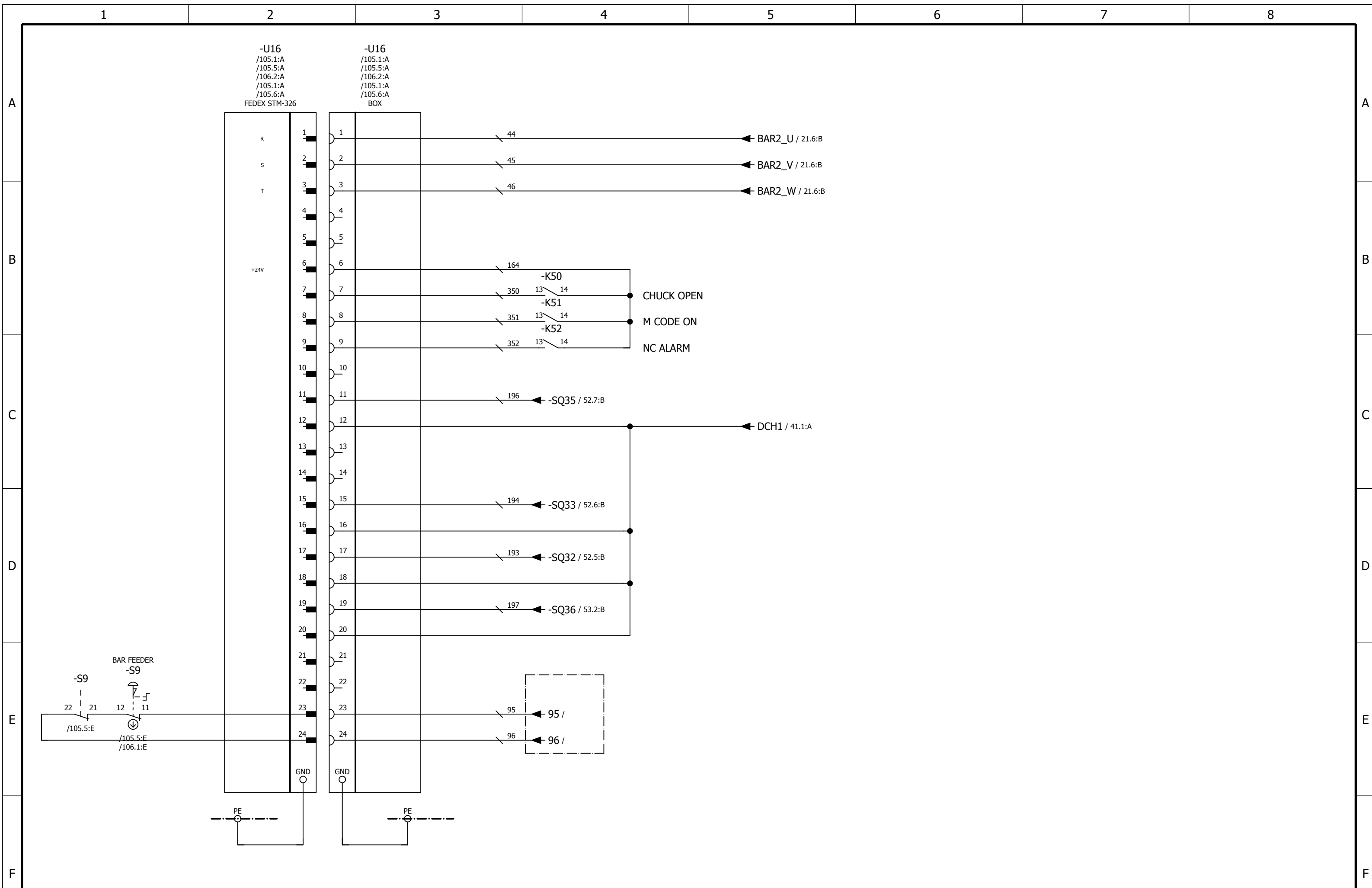
**RENISHAW TOOL SETTER
(HPPA & HPMA) (OPTION)**

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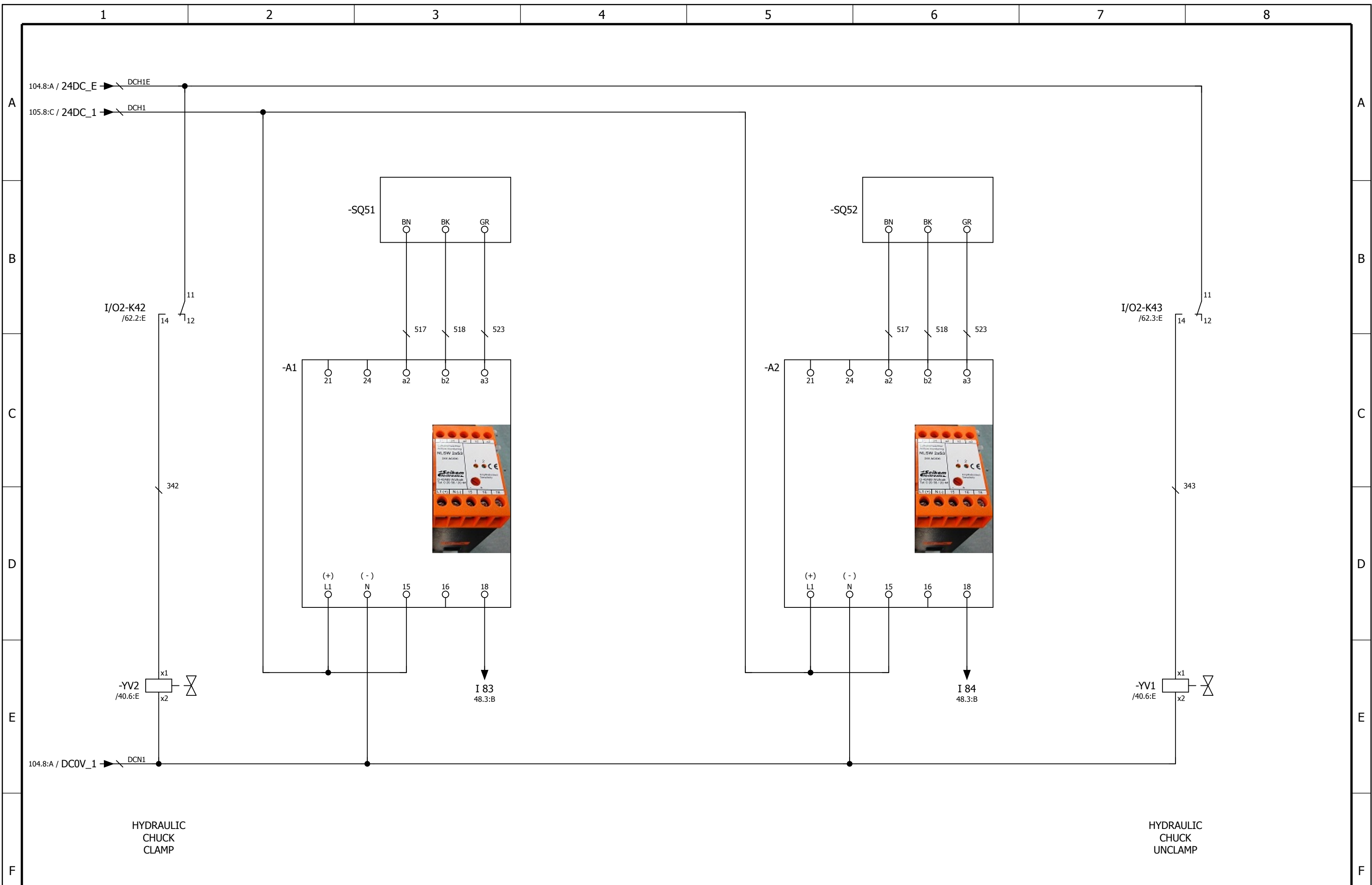
BARFEEDER (PRO & FEDEK)

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BARFEEDER (PRO & FEDEK)

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SCHUNK AIR CHUCK

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Parts list

(BF)F01_001

device tag	Quantity	Description	Type number	supplier	part number
-A1	0				
-A2	0				
-C1	0				
-C2	0				
CHOKE	0				
-CHOKE_XPS	0				
-CNC	0				
-CAN_AXES	0				
-CAN_I/O	0				
-CNC-X1	0				
-CNC-X2	0				
-CNC-X3	0				
-CNC-X4	0				
-CNC-X5	0				
-DINA_1	0				
-DINA_2	0				
-DINA_3	0				
-E-STOP	0				
-KA200	0				
-KA201	0				
-KA202	0				
-E1	0				
-E2	0				
-E4_TURRET	0				
-EH6	0				
-EH13	0				
-ENCODER	0				
-EX1	0				
-F1	1	Automat. single-pole C 2 A	5SX2 102-7	SIEMEN	SIE.5SX2 102-7
-F2	1	Automat. single-pole C 2 A	5SX2 102-7	SIEMEN	SIE.5SX2 102-7
-F3	1	Automat. single-pole C 2 A	5SX2 102-7	SIEMEN	SIE.5SX2 102-7
-F6	0				
-F7	0				
-F8	0				
-F9	0				
-F11	0				
-F12	0				
-F16	0				
-F16*	0				
-F31	0				
-F39	0				
-F42	0				
F101	0				
F101*	0				
-FAN1	0				
-FAN2	0				
-H1	0				
-HANDWHEEL_X	0				
-HANDWHEEL_Z	0				
-HEAT_EX	0				
-HPMA	0				
-HPPA/HPRA	0				
-HPxx_TURRET	0				
-I/O1	0				
-K1	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E



Parts list : - OMRON. G2R-1-E

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-K2	0				
-K3	0				
-K4	0				
-K5	0				
-K6	0				
-K7	0				
-K8	0				
-I/O2	0				
-K33	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K34	0				
-K35	0				
-K36	0				
-K37	0				
-K38	0				
-K39	0				
-K40	0				
-K41	0				
-K42	0				
-K43	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K44	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K45	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K46	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K47	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K48	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K49	0				
-K50	0				
-K51	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K52	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K53	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K54	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K55	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K56	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K65	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K66	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K67	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K68	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K69	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K70	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K71	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K72	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K73	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K74	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K75	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K76	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K77	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K78	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K79	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K80	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K81	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K82	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K83	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K84	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K85	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K86	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K87	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K88	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E



Parts list : - OMRON. G2R-1-E

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-K89	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K90	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K91	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K92	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K93	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K94	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K95	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K96	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K97	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K98	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K99	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K100	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K101	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K102	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K103	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K104	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K105	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K106	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K107	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K108	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K109	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K110	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K111	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K112	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K116	1	Relay	G2R-1-E	OMRON	OMRON. G2R-1-E
-K117	0				
-K118	0				
-K119	0				
-K120	0				
-K121	0				
-K300	0				
-K310	0				
-K311	0				
-K321	0				
-K322	0				
-K323	0				
-K324	0				
-K325	0				
-K326	0				
-K327	0				
-KM2-1	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM2-2	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM3	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM4-1	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM4-2	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM5	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM9	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM10-1	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM10-2	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM30	0				
-KM30*	0				
-KM30**	0				
-KM31	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM35	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM80	1	Contact	LC1-D096B7	TEL	TE.LC1-D096B7
-KM100	0				



Parts list : OMRON. G2R-1-E -

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-KM100*	0				
-KM101	0				
-KM101*	0				
-KM101**	0				
-KT	0				
-KW	0				
LC	0				
-LIO_SHIN_TURRET	0				
-LOCK	0				
-M3	0				
-M4	0				
M5	0				
-M9	0				
-M10	0				
-M11	0				
-M19	0				
-M22	0				
-M35	0				
-M42	0				
-M43	0				
-MCP	0				
-JP5	0				
-JP6	0				
-S5	0				
-SA1	0				
-SA5	0				
-SB1	0				
-SB2	0				
-SB3	0				
-SB4	0				
-SB5	0				
-SB6	0				
-SB7	0				
-SB9	0				
-SB10	0				
-SB11	0				
-SB12	0				
-ML1	0				
-MO	0				
-MPG	0				
-MS	0				
-MS2	0				
-MS*	0				
-MX	0				
-MX*	0				
-MZ	0				
-MZ*	0				
-PC AT	0				
-PS1	0				
-PS2	0				
-PS3	0				
-Q22	1	Motor overload switch	GV2-ME06AE11TQ	TEL	TEL.GV2-ME06AE11TQ
-Q23	1	Motor overload switch	GV2-ME06AE11TQ	TEL	TEL.GV2-ME06AE11TQ
-Q24	1	Motor overload switch	GV2-ME05AE11TQ	TEL	TEL.GV2-ME05AE11TQ
-Q25	1	Motor overload switch	GV2-ME07AE11TQ	TEL	TEL.GV2-ME07AE11TQ
-Q29	1	Motor overload switch	GV2-ME08AE11TQ	TEL	TEL.GV2-ME08AE11TQ



Parts list : - TEL.GV2-ME08AE11TQ

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-Q30	1	Motor overload switch	GV2-ME05AE11TQ	TEL	TEL.GV2-ME05AE11TQ
-Q55	1	Motor overload switch	GV2-ME07AE11TQ	TEL	TEL.GV2-ME07AE11TQ
-Q62	0				
-R1	0				
-R2	0				
-RIO1	0				
-RIO1-X4	0				
-RIO1-X5	0				
-RIO1-X6	0				
-RIO1-X7	0				
-RIO2	0				
-RIO2-X1	0				
-RIO2-X2	0				
-RIO2-X3	0				
-RIO2-X4	0				
-RIO2-X5	0				
-RIO2-X6	0				
-RIO2-X7	0				
-RIO2-X8	0				
-RJ45	0				
S1	0				
	1	Main / Emergency stop switch	3LD2 504-0TK53	SIEMEN	SIE.3LD2 504-0TK53
-S3	0				
-S7	0				
-S8	0				
-S9	0				
-S10	0				
-SA6	0				
-SAUTER_TURRET	0				
-SB12	0				
-SB23	0				
-SF1	0				
-SF11	0				
-SF2	0				
-SF3	0				
-SF4	0				
-SF5	0				
-SF6	0				
-SF21	0				
-SFP1	0				
-SL2	0				
-SP1	0				
-SP3	0				
-SP5	0				
-SQ1	0				
OG	0				
-SQ1*	0				
OG	0				
-SQ1**	0				
OG	0				
-SQ2	0				
-SQ3	0				
-SQ4	0				
-SQ6	0				
-SQ7	0				
-SQ8	0				



Parts list : TEL.GV2-ME05AE11TQ -

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-SQ9	0				
-SQ10	0				
-SQ11	0				
-SQ12	0				
-SQ13	0				
-SQ14	0				
-SQ24	0				
-SQ25	0				
-SQ28	0				
-SQ28*	0				
-SQ28**	0				
-SQ29	0				
-SQ38	0				
-SQ39	0				
-SQ40	0				
-SQ45	0				
-SQ51	0				
-SQ52	0				
-SQ60	0				
-ST1	0				
-ST2	0				
-TAN_TURRET	0				
-TB_TURRET	0				
TR1	0				
-TRM-N_TURRET	0				
-TSI2	0				
-PL1	0				
-PL2	0				
-TSI3	0				
-PL1	0				
-PL2	0				
-U4	0				
-U4S	0				
-POWER	0				
-X2	0				
-X4	0				
-X7	0				
-U4S2	0				
-POWER	0				
-X2	0				
-X4	0				
-X7	0				
-U4S*	0				
-POWER	0				
-X1	0				
-X2	0				
-X4	0				
-X7	0				
-U4T	0				
-J1	0				
-U4X	0				
-POWER	0				
-X2	0				
-X4	0				
-X7	0				
-U4X*	0				



Parts list : -

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Parts list

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device tag	Quantity	Description	Type number	supplier	part number
-POWER	0				
-X2	0				
-X3	0				
-U4Z	0				
-POWER	0				
-X2	0				
-X4	0				
-X7	0				
-U4Z*	0				
-POWER	0				
-X2	0				
-X3	0				
-U16	0				
-U17	0				
-UNLOCK	0				
-V1	0				
V2	0				
-V3	0				
-X27	0				
-YV1	0				
-YV2	0				
-YV3	0				
-YV4	0				
-YV5	0				
-YV6	0				
-YV9	0				
-YV11	0				
-YV14	0				
-YV16	0				
-YV17	0				
-YV18	0				
-YV19	0				
-YV20	0				
-YV24	0				
-YV25	0				
-YV26	0				
-YV27	0				
-YV28	0				
-YV31	0				
-YV32	0				
-YV33	0				
-YV34	0				
-YV35	0				
-YV36	0				
-YV50	0				
-YV80	0				
-YV81	0				
-YV82	0				
-YV83	0				
-YV110	0				
-F6	0				
-U4T	0				
-CN1	0				
-DIPLOMATIC	0				
-P5	0				
-P6	0				



Parts list : -

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Connection list

(BF)F27_001

connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
								Conductor / wire
								Conductor / wire
								Conductor / wire
								Conductor / wire
								Conductor / wire
		+Main circuit-EX1:SHIELD				+Main circuit/86.3:D	+Main circuit/86.4:D	Conductor / wire
	+Main circuit-EX1:1	+Main circuit-RJ45:1				+Main circuit/87.7:B	+Main circuit/87.5:B	Conductor / wire
	+Main circuit-EX1:2	+Main circuit-RJ45:2				+Main circuit/87.7:C	+Main circuit/87.5:C	Conductor / wire
	+Main circuit-EX1:3	+Main circuit-RJ45:3				+Main circuit/87.7:C	+Main circuit/87.5:C	Conductor / wire
	+Main circuit-EX1:4	+Main circuit-RJ45:4				+Main circuit/87.7:C	+Main circuit/87.5:C	Conductor / wire
	+Main circuit-EX1:5	+Main circuit-RJ45:5				+Main circuit/87.7:C	+Main circuit/87.5:C	Conductor / wire
	+Main circuit-EX1:6	+Main circuit-RJ45:6				+Main circuit/87.7:D	+Main circuit/87.5:D	Conductor / wire
	+Main circuit-EX1:7	+Main circuit-RJ45:7				+Main circuit/87.7:D	+Main circuit/87.5:D	Conductor / wire
	+Main circuit-EX1:8	+Main circuit-RJ45:8				+Main circuit/87.7:D	+Main circuit/87.5:D	Conductor / wire
	+Main circuit-CNC-X1:4	+Main circuit-CNC-X1:8				+Main circuit/86.6:C	+Main circuit/86.6:D	Conductor / wire
	+Main circuit-EX1:4	+Main circuit-EX1:8				+Main circuit/86.7:C	+Main circuit/86.7:D	Conductor / wire
	+Main circuit-CNC-X1:6	+Main circuit-CNC-X1:8				+Main circuit/86.6:C	+Main circuit/86.6:D	Conductor / wire
	+Main circuit-EX1:6	+Main circuit-EX1:8				+Main circuit/86.7:C	+Main circuit/86.7:D	Conductor / wire
		+Main circuit-EX1:1				+Main circuit/86.7:B	+Main circuit/86.7:B	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-POWER				+Main circuit/7.2:A	+Main circuit/7.2:B	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-X4				+Main circuit/7.2:A	+Main circuit/7.2:C	Conductor / wire
	+Main circuit-U4S2-X2	+Main circuit-U4Z-X2				+Main circuit/7.2:E	+Main circuit/7.4:E	Conductor / wire
	+Main circuit-U4S2-(+600V DC)	+Main circuit-U4Z-(+600V DC)				+Main circuit/7.2:F	+Main circuit/7.3:F	Direct connection
	+Main circuit-U4S2-(0V DC)	+Main circuit-U4Z-(0V DC)				+Main circuit/7.2:F	+Main circuit/7.3:F	Direct connection
	+Main circuit-U4S2:OUT	+Main circuit-U4Z:IN				+Main circuit/7.2:C	+Main circuit/7.3:D	Optical fiber
	+Main circuit-U4S2-X1	+Main circuit-U4Z-X1				+Main circuit/7.2:D	+Main circuit/7.4:D	Conductor / wire
	+Main circuit-U4X-X2	+Main circuit-U4Z-X2				+Main circuit/7.5:E	+Main circuit/7.4:E	Conductor / wire
	+Main circuit-U4X-(+600V DC)	+Main circuit-U4Z-(+600V DC)				+Main circuit/7.5:F	+Main circuit/7.3:F	Direct connection
	+Main circuit-U4X-(600V DC)	+Main circuit-U4Z-(0V DC)				+Main circuit/7.5:F	+Main circuit/7.3:F	Direct connection
	+Main circuit-U4X:IN	+Main circuit-U4Z:OUT				+Main circuit/7.5:D	+Main circuit/7.3:C	Optical fiber
	+Main circuit-U4X-X1	+Main circuit-U4Z-X1				+Main circuit/7.5:D	+Main circuit/7.4:D	Conductor / wire
	+Main circuit-U4S-X2	+Main circuit-U4X-X2				+Main circuit/7.7:E	+Main circuit/7.5:E	Conductor / wire
	+Main circuit-U4S-(+600V DC)	+Main circuit-U4X-(+600V DC)				+Main circuit/7.6:F	+Main circuit/7.5:F	Direct connection
	+Main circuit-U4S-(0V DC)	+Main circuit-U4X-(600V DC)				+Main circuit/7.6:F	+Main circuit/7.5:F	Direct connection
	+Main circuit-U4S:IN	+Main circuit-U4X:OUT				+Main circuit/7.6:D	+Main circuit/7.5:C	Optical fiber
	+Main circuit-U4S-X1	+Main circuit-U4X-X1				+Main circuit/7.7:D	+Main circuit/7.5:D	Conductor / wire
	+Main circuit-U4-X4	+Main circuit-U4S-X2				+Main circuit/7.8:E	+Main circuit/7.7:E	Conductor / wire
	+Main circuit-U4-(+600V DC)	+Main circuit-U4S-(+600V DC)				+Main circuit/7.8:F	+Main circuit/7.6:F	Direct connection
	+Main circuit-U4-(0V DC)	+Main circuit-U4S-(0V DC)				+Main circuit/7.8:F	+Main circuit/7.6:F	Direct connection
	+Main circuit-U4-X1	+Main circuit-U4S-X1				+Main circuit/7.8:D	+Main circuit/7.7:D	Conductor / wire
	+Main circuit-U4-(+600V DC)	+Main circuit-U4S-(+600V DC)				+Main circuit/8.8:F	+Main circuit/8.6:F	Direct connection
	+Main circuit-U4-(0V DC)	+Main circuit-U4S-(0V DC)				+Main circuit/8.8:F	+Main circuit/8.6:F	Direct connection
	+Main circuit-U4-X1	+Main circuit-U4S-X1				+Main circuit/8.7:D	+Main circuit/8.7:D	Conductor / wire
	+Main circuit-U4S-(+600V DC)	+Main circuit-U4X-(+600V DC)				+Main circuit/8.6:F	+Main circuit/8.5:F	Direct connection
	+Main circuit-U4S-(0V DC)	+Main circuit-U4X-(600V DC)				+Main circuit/8.6:F	+Main circuit/8.5:F	Direct connection
	+Main circuit-U4S:IN	+Main circuit-U4X:OUT				+Main circuit/8.6:D	+Main circuit/8.5:C	Optical fiber
	+Main circuit-U4S-X1	+Main circuit-U4X-X1				+Main circuit/8.7:D	+Main circuit/8.5:D	Conductor / wire
	+Main circuit-U4X-X2	+Main circuit-U4Z-X2				+Main circuit/8.5:E	+Main circuit/8.4:E	Conductor / wire
	+Main circuit-U4X-(+600V DC)	+Main circuit-U4Z-(+600V DC)				+Main circuit/8.5:F	+Main circuit/8.3:F	Direct connection
	+Main circuit-U4X-(600V DC)	+Main circuit-U4Z-(0V DC)				+Main circuit/8.5:F	+Main circuit/8.3:F	Direct connection
	+Main circuit-U4X:IN	+Main circuit-U4Z:OUT				+Main circuit/8.5:D	+Main circuit/8.3:C	Optical fiber
	+Main circuit-U4X-X1	+Main circuit-U4Z-X1				+Main circuit/8.5:D	+Main circuit/8.4:D	Conductor / wire
	+Main circuit-U4S2:OUT	+Main circuit-U4Z:IN				+Main circuit/8.2:C	+Main circuit/8.3:D	Optical fiber
	+Main circuit-U4S2-X2	+Main circuit-U4Z-X2				+Main circuit/8.2:E	+Main circuit/8.4:E	Conductor / wire
	+Main circuit-U4S2-(+600V DC)	+Main circuit-U4Z-(+600V DC)				+Main circuit/8.2:F	+Main circuit/8.3:F	Direct connection
	+Main circuit-U4S2-(0V DC)	+Main circuit-U4Z-(0V DC)				+Main circuit/8.2:F	+Main circuit/8.3:F	Direct connection



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	+Main circuit-U4S2-X1	+Main circuit-U4Z-X1				+Main circuit/8.2:D	+Main circuit/8.4:D	Conductor / wire
	+Main circuit-PS3	+Main circuit-U4S2-X2				+Main circuit/8.1:E	+Main circuit/8.2:E	Conductor / wire
	+Main circuit-U4S2-X2	+Main circuit-U4Z-X2				+Main circuit/9.2:E	+Main circuit/9.4:E	Conductor / wire
	+Main circuit-U4S2-(+600V DC)	+Main circuit-U4Z-(+600V DC)				+Main circuit/9.2:F	+Main circuit/9.3:F	Direct connection
	+Main circuit-U4S2-(0V DC)	+Main circuit-U4Z-(0V DC)				+Main circuit/9.2:F	+Main circuit/9.3:F	Direct connection
	+Main circuit-U4S2:OUT	+Main circuit-U4Z:IN				+Main circuit/9.2:C	+Main circuit/9.3:D	Optical fiber
	+Main circuit-U4S2-X1	+Main circuit-U4Z-X1				+Main circuit/9.2:D	+Main circuit/9.4:D	Conductor / wire
	+Main circuit-U4X-X2	+Main circuit-U4Z-X2				+Main circuit/9.5:E	+Main circuit/9.4:E	Conductor / wire
	+Main circuit-U4X(+600V DC)	+Main circuit-U4Z(+600V DC)				+Main circuit/9.5:F	+Main circuit/9.3:F	Direct connection
	+Main circuit-U4X(-600V DC)	+Main circuit-U4Z(0V DC)				+Main circuit/9.5:F	+Main circuit/9.3:F	Direct connection
	+Main circuit-U4X:IN	+Main circuit-U4Z:OUT				+Main circuit/9.5:D	+Main circuit/9.3:C	Optical fiber
	+Main circuit-U4X-X1	+Main circuit-U4Z-X1				+Main circuit/9.5:D	+Main circuit/9.4:D	Conductor / wire
	+Main circuit-U4S-X2	+Main circuit-U4X-X2				+Main circuit/9.7:E	+Main circuit/9.5:E	Conductor / wire
	+Main circuit-U4S(+600V DC)	+Main circuit-U4X(+600V DC)				+Main circuit/9.6:F	+Main circuit/9.5:F	Direct connection
	+Main circuit-U4S(0V DC)	+Main circuit-U4X(-600V DC)				+Main circuit/9.6:F	+Main circuit/9.5:F	Direct connection
	+Main circuit-U4S:IN	+Main circuit-U4X:OUT				+Main circuit/9.6:D	+Main circuit/9.5:C	Optical fiber
	+Main circuit-U4S-X1	+Main circuit-U4X-X1				+Main circuit/9.7:D	+Main circuit/9.5:D	Conductor / wire
	+Main circuit-U4-X4	+Main circuit-U4S-X2				+Main circuit/9.8:E	+Main circuit/9.7:E	Conductor / wire
	+Main circuit-U4(+600V DC)	+Main circuit-U4S(+600V DC)				+Main circuit/9.8:F	+Main circuit/9.6:F	Direct connection
	+Main circuit-U4(0V DC)	+Main circuit-U4S(0V DC)				+Main circuit/9.8:F	+Main circuit/9.6:F	Direct connection
	+Main circuit-U4-X1	+Main circuit-U4S-X1				+Main circuit/9.8:D	+Main circuit/9.7:D	Conductor / wire
	+Main circuit-MS*	+Main circuit-U4S*-POWER				+Main circuit/10.6:A	+Main circuit/10.6:B	Conductor / wire
	+Main circuit-MS*	+Main circuit-U4S*-X4				+Main circuit/10.6:A	+Main circuit/10.6:C	Conductor / wire
	+Main circuit-MZ*	+Main circuit-U4Z*-MOTOR_FEEDBACK				+Main circuit/10.3:A	+Main circuit/10.4:D	Conductor / wire
	+Main circuit-MZ*	+Main circuit-U4Z*-POWER				+Main circuit/10.3:A	+Main circuit/10.3:E	Conductor / wire
	+Main circuit-MX*	+Main circuit-U4X*-MOTOR_FEEDBACK				+Main circuit/10.4:A	+Main circuit/10.5:D	Conductor / wire
	+Main circuit-MX*	+Main circuit-U4X*-POWER				+Main circuit/10.5:A	+Main circuit/10.5:E	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-X4				+Main circuit/9.3:A	+Main circuit/9.3:C	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-POWER				+Main circuit/9.3:A	+Main circuit/9.3:B	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-X4				+Main circuit/9.4:A	+Main circuit/9.5:C	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-POWER				+Main circuit/9.5:A	+Main circuit/9.5:B	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-X4				+Main circuit/9.6:A	+Main circuit/9.6:C	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-POWER				+Main circuit/9.6:A	+Main circuit/9.6:B	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-X4				+Main circuit/8.3:A	+Main circuit/8.3:C	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-POWER				+Main circuit/8.3:A	+Main circuit/8.3:B	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-X4				+Main circuit/8.4:A	+Main circuit/8.5:C	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-POWER				+Main circuit/8.5:A	+Main circuit/8.5:B	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-X4				+Main circuit/8.6:A	+Main circuit/8.6:C	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-POWER				+Main circuit/8.6:A	+Main circuit/8.6:B	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-X4				+Main circuit/7.3:A	+Main circuit/7.3:C	Conductor / wire
	+Main circuit-MZ	+Main circuit-U4Z-POWER				+Main circuit/7.3:A	+Main circuit/7.3:B	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-X4				+Main circuit/7.4:A	+Main circuit/7.5:C	Conductor / wire
	+Main circuit-MX	+Main circuit-U4X-POWER				+Main circuit/7.5:A	+Main circuit/7.5:B	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-X4				+Main circuit/7.6:A	+Main circuit/7.6:C	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-POWER				+Main circuit/7.6:A	+Main circuit/7.6:B	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-X4				+Main circuit/8.2:A	+Main circuit/8.2:C	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-POWER				+Main circuit/8.2:A	+Main circuit/8.2:B	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-X4				+Main circuit/9.2:A	+Main circuit/9.2:C	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-POWER				+Main circuit/9.2:A	+Main circuit/9.2:B	Conductor / wire
	+Main circuit-U4S*	+Main circuit-U4X*-X4				+Main circuit/10.6:C	+Main circuit/10.5:C	Conductor / wire
	+Main circuit-U4X*-X4	+Main circuit-U4Z*-X4				+Main circuit/10.5:C	+Main circuit/10.3:C	Conductor / wire
	+Main circuit-CNC	+Main circuit-CNC-USB				+Main circuit/5.3:B	+Main circuit/5.4:E	Conductor / wire
	+Main circuit-CNC	+Main circuit-CNC-X6				+Main circuit/5.3:E	+Main circuit/5.4:D	Conductor / wire
	+Main circuit-CNC-X5	+Main circuit-U17				+Main circuit/5.4:D	+Main circuit/5.5:F	Conductor / wire
	+Main circuit-HANDWHEEL_Z	+Main circuit-U17				+Main circuit/5.7:F	+Main circuit/5.6:E	Conductor / wire
	+Main circuit-HANDWHEEL_X	+Main circuit-U17				+Main circuit/5.7:F	+Main circuit/5.5:E	Conductor / wire
	+Main circuit-MPG	+Main circuit-U17				+Main circuit/5.8:F	+Main circuit/5.5:E	Conductor / wire



Connection list : -

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Drawing No.	L00-0091-100		
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	+Main circuit-CNC-X2	+Main circuit-I/O1				+Main circuit/5.2:D	+Main circuit/5.7:D	Conductor / wire
	+Main circuit-CNC-RJ45	+Main circuit-RJ-45				+Main circuit/5.4:B	+Main circuit/5.8:A	Conductor / wire
	+Main circuit-MCP	+Main circuit-X27				+Main circuit/5.5:B	+Main circuit/5.7:B	Conductor / wire
	+Main circuit-CNC-X7	+Main circuit-I/O2				+Main circuit/5.2:B	+Main circuit/5.7:C	Conductor / wire
	+Main circuit-CNC-X9	+Main circuit-I/O2				+Main circuit/5.2:D	+Main circuit/5.7:D	Conductor / wire
	+Main circuit-CNC-IN	+Main circuit-U4S:OUT				+Main circuit/5.2:B	+Main circuit/7.6:C	Conductor / wire
	+Main circuit-CNC-IN	+Main circuit-U4S:OUT				+Main circuit/5.2:B	+Main circuit/8.6:C	Conductor / wire
	+Main circuit-CNC-IN	+Main circuit-U4S:OUT				+Main circuit/5.2:B	+Main circuit/9.6:C	Conductor / wire
	+Main circuit-CNC-X4	+Main circuit-ENCODER				+Main circuit/5.3:D	+Main circuit/9.6:A	Conductor / wire
	+Main circuit-CNC-X4	+Main circuit-ENCODER				+Main circuit/5.3:D	+Main circuit/8.6:A	Conductor / wire
	+Main circuit-CNC-X4	+Main circuit-ENCODER				+Main circuit/5.3:D	+Main circuit/7.6:A	Conductor / wire
	+Main circuit-MCP	+Main circuit-X27				+Main circuit/6.5:B	+Main circuit/6.7:B	Conductor / wire
	+Main circuit-HANDWHEEL_X	+Main circuit-U17				+Main circuit/6.7:F	+Main circuit/6.5:E	Conductor / wire
	+Main circuit-MPG	+Main circuit-U17				+Main circuit/6.8:F	+Main circuit/6.5:E	Conductor / wire
	+Main circuit-HANDWHEEL_Z	+Main circuit-U17				+Main circuit/6.7:F	+Main circuit/6.6:E	Conductor / wire
	+Main circuit-CNC	+Main circuit-CNC-USB				+Main circuit/6.3:B	+Main circuit/6.4:E	Conductor / wire
	+Main circuit-CNC-X7	+Main circuit-I/O2				+Main circuit/6.2:B	+Main circuit/6.7:C	Conductor / wire
	+Main circuit-CNC-X9	+Main circuit-I/O2				+Main circuit/6.2:D	+Main circuit/6.7:D	Conductor / wire
	+Main circuit-CNC-X2	+Main circuit-I/O1				+Main circuit/6.2:D	+Main circuit/6.7:D	Conductor / wire
	+Main circuit-CNC-X5	+Main circuit-U17				+Main circuit/6.4:D	+Main circuit/6.5:F	Conductor / wire
	+Main circuit-CNC	+Main circuit-CNC-X6				+Main circuit/6.3:E	+Main circuit/6.4:D	Conductor / wire
	+Main circuit-CNC-RJ45	+Main circuit-RJ-45				+Main circuit/6.4:B	+Main circuit/6.8:A	Conductor / wire
	+Main circuit-CNC-X3	+Main circuit-CNC-X3				+Main circuit/5.3:D	+Main circuit/6.3:D	Conductor / wire
	+Main circuit-CNC-CAN_AXES	+Main circuit-U4Z*-X4				+Main circuit/6.2:B	+Main circuit/10.3:C	Conductor / wire
	PE	+Main circuit-RIO1:CHS				+Main circuit/12.5:A	+Main circuit/12.5:A	Conductor / wire
	+Main circuit-RIO1:GND	+Main circuit-RIO1:GND				+Main circuit/12.5:B	+Main circuit/12.5:B	Conductor / wire
	+Main circuit-RIO1:+24 V	+Main circuit-RIO1:+24 V				+Main circuit/12.5:B	+Main circuit/12.5:B	Conductor / wire
	PE	+Main circuit-CNC				+Main circuit/6.5:C	+Main circuit/6.4:C	Conductor / wire
	PE	+Main circuit-CNC				+Main circuit/5.5:C	+Main circuit/5.4:C	Conductor / wire
	+Main circuit-TR1	+Main circuit-TR1				+Main circuit/13.8:D	+Main circuit/13.8:C	Direct connection
	+Main circuit-S1:1	+Main circuit-X50:R				+Main circuit/13.1:D	+Main circuit/13.1:F	Conductor / wire
	+Main circuit-S1:3	+Main circuit-X50:S				+Main circuit/13.1:D	+Main circuit/13.1:F	Conductor / wire
	+Main circuit-S1:5	+Main circuit-X50:T				+Main circuit/13.1:D	+Main circuit/13.1:F	Conductor / wire
L11E	+Main circuit-F7:1	+Main circuit-LC:0				+Main circuit/13.6:B	+Main circuit/13.4:B	Conductor / wire
7	+Main circuit-F7:2	+Main circuit-TR1:400V				+Main circuit/13.6:B	+Main circuit/13.5:C	Conductor / wire
8	+Main circuit-F7:4	+Main circuit-TR1:400V				+Main circuit/13.6:B	+Main circuit/13.6:C	Conductor / wire
L31E	+Main circuit-F7:5	+Main circuit-LC:3				+Main circuit/13.6:B	+Main circuit/13.4:B	Conductor / wire
9	+Main circuit-F7:6	+Main circuit-TR1:400V				+Main circuit/13.6:B	+Main circuit/13.8:C	Conductor / wire
L11E	+Main circuit-LC:0	+Main circuit-V1:L1				+Main circuit/13.4:B	+Main circuit/13.1:B	Conductor / wire
L21E	+Main circuit-F7:3	+Main circuit-V1:L2				+Main circuit/13.6:B	+Main circuit/13.1:B	Conductor / wire
L31E	+Main circuit-LC:3	+Main circuit-V1:L3				+Main circuit/13.4:B	+Main circuit/13.1:B	Conductor / wire
24VB	+Main circuit-F4:1	+Main circuit-TR1:24V				+Main circuit/13.7:E	+Main circuit/13.7:D	Conductor / wire
PE	PE	+Main circuit-TR1:PE				+Main circuit/13.8:B	+Main circuit/13.8:C	Conductor / wire
24VA	PE	+Main circuit-TR1:0V				+Main circuit/13.8:B	+Main circuit/13.8:D	Conductor / wire
PE	PE	+Main circuit-V1:PE				+Main circuit/13.1:A	+Main circuit/13.1:B	Conductor / wire
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.4:B	+Main circuit/14.4:B	Direct connection
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.4:B	+Main circuit/14.4:B	Direct connection
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.5:B	+Main circuit/14.4:B	Direct connection
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.4:B	+Main circuit/14.4:B	Direct connection
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.4:B	+Main circuit/14.4:B	Direct connection
	+Main circuit-CHOKE	+Main circuit-CHOKE				+Main circuit/14.5:B	+Main circuit/14.4:B	Direct connection
L12	+Main circuit-F101:2	+Main circuit-KM101:1				+Main circuit/14.2:A	+Main circuit/14.2:B	Conductor / wire
L22	+Main circuit-F101:4	+Main circuit-KM101:3				+Main circuit/14.2:A	+Main circuit/14.2:B	Conductor / wire
L32	+Main circuit-F101:6	+Main circuit-KM101:5				+Main circuit/14.2:A	+Main circuit/14.2:B	Conductor / wire
	+Main circuit-KM101:2	+Main circuit-V2:L1				+Main circuit/14.2:B	+Main circuit/14.4:B	Conductor / wire
L14	+Main circuit-CHOKE:U1	+Main circuit-V2				+Main circuit/14.4:B	+Main circuit/14.4:B	Conductor / wire
	+Main circuit-KM101:4	+Main circuit-V2:L2				+Main circuit/14.2:B	+Main circuit/14.4:B	Conductor / wire



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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
L15	+Main circuit-CHOKE:V1	+Main circuit-V2				+Main circuit/14.4:B	+Main circuit/14.4:B	Conductor / wire
	+Main circuit-KM101:6	+Main circuit-V2:L3				+Main circuit/14.2:B	+Main circuit/14.4:B	Conductor / wire
L16	+Main circuit-CHOKE:W1	+Main circuit-V2				+Main circuit/14.5:B	+Main circuit/14.4:B	Conductor / wire
PE	PE	+Main circuit-V2:PE				+Main circuit/14.5:A	+Main circuit/14.5:B	Conductor / wire
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Internal
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Internal
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Internal
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Direct connection
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Direct connection
	+Main circuit-M11	+Main circuit-M11-SQ30				+Main circuit/15.4:E	+Main circuit/15.4:E	Internal
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.6:E	+Main circuit/15.6:E	Internal
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.6:E	+Main circuit/15.6:E	Internal
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.6:E	+Main circuit/15.6:E	Internal
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.6:E	+Main circuit/15.6:E	Direct connection
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.5:E	+Main circuit/15.5:E	Internal
	+Main circuit-M22	+Main circuit-M22-SQ31				+Main circuit/15.5:E	+Main circuit/15.5:E	Internal
	+Main circuit-MO	+Main circuit-MO				+Main circuit/15.7:E	+Main circuit/15.7:E	Internal
	+Main circuit-MO	+Main circuit-MO				+Main circuit/15.7:E	+Main circuit/15.7:E	Internal
L11E	+Main circuit-F9:1	+Main circuit-F31:1				+Main circuit/15.1:B	+Main circuit/15.4:B	Conductor / wire
L21E	+Main circuit-F9:3	+Main circuit-F31:3				+Main circuit/15.1:B	+Main circuit/15.4:B	Conductor / wire
L31E	+Main circuit-F9:5	+Main circuit-F31:5				+Main circuit/15.1:B	+Main circuit/15.4:B	Conductor / wire
	+Main circuit-F31:1	+Main circuit-F42:1				+Main circuit/15.4:B	+Main circuit/15.6:B	Conductor / wire
L11E	+Main circuit-F42:1	+Main circuit-MO:L1				+Main circuit/15.6:B	+Main circuit/15.7:E	Conductor / wire
59	+Main circuit-F42:2	+Main circuit-M22:R				+Main circuit/15.6:B	+Main circuit/15.6:E	Conductor / wire
	+Main circuit-F31:3	+Main circuit-F42:3				+Main circuit/15.4:B	+Main circuit/15.6:B	Conductor / wire
L21E	+Main circuit-F42:3	+Main circuit-MO:L2				+Main circuit/15.6:B	+Main circuit/15.7:E	Conductor / wire
60	+Main circuit-F42:4	+Main circuit-M22:S				+Main circuit/15.6:B	+Main circuit/15.6:E	Conductor / wire
	+Main circuit-F31:5	+Main circuit-F42:5				+Main circuit/15.4:B	+Main circuit/15.6:B	Conductor / wire
L31E	+Main circuit-F42:5	+Main circuit-MO:L3				+Main circuit/15.6:B	+Main circuit/15.8:E	Conductor / wire
61	+Main circuit-F42:6	+Main circuit-M22:T				+Main circuit/15.6:B	+Main circuit/15.6:E	Conductor / wire
1	+Main circuit-F9:2	+Main circuit-FAN1:U				+Main circuit/15.1:B	+Main circuit/15.1:E	Conductor / wire
2	+Main circuit-F9:4	+Main circuit-FAN1:V				+Main circuit/15.1:B	+Main circuit/15.1:E	Conductor / wire
3	+Main circuit-F9:6	+Main circuit-FAN1:W				+Main circuit/15.1:B	+Main circuit/15.1:E	Conductor / wire
1	+Main circuit-F9:2	+Main circuit-FAN2:U				+Main circuit/15.1:B	+Main circuit/15.2:E	Conductor / wire
2	+Main circuit-F9:4	+Main circuit-FAN2:V				+Main circuit/15.1:B	+Main circuit/15.2:E	Conductor / wire
3	+Main circuit-F9:6	+Main circuit-FAN2:W				+Main circuit/15.1:B	+Main circuit/15.2:E	Conductor / wire
L11E	+Main circuit-KM100:1	+Main circuit-MO:L1				+Main circuit/15.8:B	+Main circuit/15.7:E	Conductor / wire
L21E	+Main circuit-KM100:3	+Main circuit-MO:L2				+Main circuit/15.8:B	+Main circuit/15.7:E	Conductor / wire
L31E	+Main circuit-KM100:5	+Main circuit-MO:L3				+Main circuit/15.8:B	+Main circuit/15.8:E	Conductor / wire
	+Main circuit-M11	+Main circuit-X54:4				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-M11	+Main circuit-X54:5				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
65	+Main circuit-F31:2	+Main circuit-X54:1				+Main circuit/15.4:B	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-M11:R	+Main circuit-X54:1				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
66	+Main circuit-F31:4	+Main circuit-X54:2				+Main circuit/15.4:B	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-M11:S	+Main circuit-X54:2				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
67	+Main circuit-F31:6	+Main circuit-X54:3				+Main circuit/15.4:B	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-M11:T	+Main circuit-X54:3				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-M11:PE	+Main circuit-X54:PE				+Main circuit/15.4:E	+Main circuit/15.4:D	Conductor / wire
PE	PE	+Main circuit-X54:PE				+Main circuit/15.4:D	+Main circuit/15.4:D	Conductor / wire
PE	PE	+Main circuit-M22:PE				+Main circuit/15.6:D	+Main circuit/15.6:E	Conductor / wire
PE	PE	+Main circuit-FAN1:PE				+Main circuit/15.2:D	+Main circuit/15.1:E	Conductor / wire
PE	PE	+Main circuit-FAN2:PE				+Main circuit/15.3:D	+Main circuit/15.2:E	Conductor / wire
	+Main circuit-Q23:1	+Main circuit-Q24:1				+Main circuit/16.1:A	+Main circuit/16.3:A	Conductor / wire
	+Main circuit-Q23:3	+Main circuit-Q24:3				+Main circuit/16.1:A	+Main circuit/16.3:A	Conductor / wire
	+Main circuit-Q23:5	+Main circuit-Q24:5				+Main circuit/16.1:A	+Main circuit/16.3:A	Conductor / wire
	+Main circuit-KM4-1:1	+Main circuit-Q24:2				+Main circuit/16.3:B	+Main circuit/16.3:A	Direct connection



Connection list : L15 -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.c
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-KM4-1:3	+Main circuit-Q24:4				+Main circuit/16.3:B	+Main circuit/16.3:A	Direct connection
	+Main circuit-KM4-1:5	+Main circuit-Q24:6				+Main circuit/16.3:B	+Main circuit/16.3:A	Direct connection
	+Main circuit-KM3:1	+Main circuit-Q23:2				+Main circuit/16.1:B	+Main circuit/16.1:A	Direct connection
	+Main circuit-KM3:3	+Main circuit-Q23:4				+Main circuit/16.2:B	+Main circuit/16.1:A	Direct connection
	+Main circuit-KM3:5	+Main circuit-Q23:6				+Main circuit/16.2:B	+Main circuit/16.1:A	Direct connection
	+Main circuit-KM4-1:1	+Main circuit-KM4-2:1				+Main circuit/16.3:B	+Main circuit/16.4:B	Direct connection
	+Main circuit-KM4-1:6	+Main circuit-KM4-2:2				+Main circuit/16.3:B	+Main circuit/16.4:B	Conductor / wire
	+Main circuit-KM4-1:3	+Main circuit-KM4-2:3				+Main circuit/16.3:B	+Main circuit/16.5:B	Direct connection
	+Main circuit-KM4-1:4	+Main circuit-KM4-2:4				+Main circuit/16.3:B	+Main circuit/16.5:B	Conductor / wire
	+Main circuit-KM4-1:5	+Main circuit-KM4-2:5				+Main circuit/16.3:B	+Main circuit/16.5:B	Direct connection
	+Main circuit-KM4-1:2	+Main circuit-KM4-2:6				+Main circuit/16.3:B	+Main circuit/16.5:B	Conductor / wire
L11	+Main circuit-Q24:1	+Main circuit-Q25:1				+Main circuit/16.3:A	+Main circuit/16.6:A	Conductor / wire
L21	+Main circuit-Q24:3	+Main circuit-Q25:3				+Main circuit/16.3:A	+Main circuit/16.6:A	Conductor / wire
L31	+Main circuit-Q24:5	+Main circuit-Q25:5				+Main circuit/16.3:A	+Main circuit/16.6:A	Conductor / wire
	+Main circuit-KM5:1	+Main circuit-Q25:2				+Main circuit/16.6:B	+Main circuit/16.6:A	Direct connection
	+Main circuit-KM5:3	+Main circuit-Q25:4				+Main circuit/16.6:B	+Main circuit/16.6:A	Direct connection
	+Main circuit-KM5:5	+Main circuit-Q25:6				+Main circuit/16.6:B	+Main circuit/16.6:A	Direct connection
	+Main circuit-M4:U	+Main circuit-X4:1				+Main circuit/16.3:E	+Main circuit/16.3:D	Conductor / wire
	+Main circuit-M4:V	+Main circuit-X4:2				+Main circuit/16.3:E	+Main circuit/16.3:D	Conductor / wire
	+Main circuit-M4:W	+Main circuit-X4:3				+Main circuit/16.3:E	+Main circuit/16.3:D	Conductor / wire
PE	+Main circuit-M4:PE	+Main circuit-X4:PE				+Main circuit/16.3:E	+Main circuit/16.3:D	Conductor / wire
	+Main circuit-M5:U	+Main circuit-X5:1				+Main circuit/16.6:E	+Main circuit/16.6:D	Conductor / wire
	+Main circuit-M5:V	+Main circuit-X5:2				+Main circuit/16.6:E	+Main circuit/16.6:D	Conductor / wire
	+Main circuit-M5:W	+Main circuit-X5:3				+Main circuit/16.6:E	+Main circuit/16.6:D	Conductor / wire
PE	+Main circuit-M5:PE	+Main circuit-X5:PE				+Main circuit/16.6:E	+Main circuit/16.6:D	Conductor / wire
	+Main circuit-M3:U	+Main circuit-X3:1				+Main circuit/16.1:E	+Main circuit/16.1:D	Conductor / wire
	+Main circuit-M3:V	+Main circuit-X3:2				+Main circuit/16.1:E	+Main circuit/16.2:D	Conductor / wire
	+Main circuit-M3:W	+Main circuit-X3:3				+Main circuit/16.1:E	+Main circuit/16.2:D	Conductor / wire
	+Main circuit-M3:PE	+Main circuit-X3:PE				+Main circuit/16.1:E	+Main circuit/16.2:D	Conductor / wire
	+Main circuit-S7:11	+Main circuit-X4:4				+Main circuit/16.4:E	+Main circuit/16.4:D	Conductor / wire
	+Main circuit-S7:12	+Main circuit-X4:5				+Main circuit/16.4:E	+Main circuit/16.4:D	Conductor / wire
	+Main circuit-S7:21	+Main circuit-X4:6				+Main circuit/16.4:E	+Main circuit/16.4:D	Conductor / wire
	+Main circuit-S7:22	+Main circuit-X4:7				+Main circuit/16.4:E	+Main circuit/16.4:D	Conductor / wire
PE	PE	+Main circuit-X3:PE				+Main circuit/16.2:D	+Main circuit/16.2:D	Conductor / wire
PE	PE	+Main circuit-X4:PE				+Main circuit/16.3:D	+Main circuit/16.3:D	Conductor / wire
PE	PE	+Main circuit-X5:PE				+Main circuit/16.6:D	+Main circuit/16.6:D	Conductor / wire
L11	+Main circuit-Q30:1	+Main circuit-Q55:1				+Main circuit/17.4:A	+Main circuit/17.6:A	Conductor / wire
L21	+Main circuit-Q30:3	+Main circuit-Q55:3				+Main circuit/17.4:A	+Main circuit/17.6:A	Conductor / wire
L31	+Main circuit-Q30:5	+Main circuit-Q55:5				+Main circuit/17.4:A	+Main circuit/17.6:A	Conductor / wire
	+Main circuit-KM10-1:2	+Main circuit-KM10-2:6				+Main circuit/17.4:B	+Main circuit/17.5:B	Conductor / wire
	+Main circuit-KM10-1:4	+Main circuit-KM10-2:4				+Main circuit/17.4:B	+Main circuit/17.5:B	Conductor / wire
	+Main circuit-KM10-1:6	+Main circuit-KM10-2:2				+Main circuit/17.4:B	+Main circuit/17.5:B	Conductor / wire
	+Main circuit-KM35:1	+Main circuit-Q55:2				+Main circuit/17.6:B	+Main circuit/17.6:A	Direct connection
	+Main circuit-KM35:5	+Main circuit-Q55:6				+Main circuit/17.6:B	+Main circuit/17.6:A	Direct connection
	+Main circuit-KM35:3	+Main circuit-Q55:4				+Main circuit/17.6:B	+Main circuit/17.6:A	Direct connection
	+Main circuit-M10:U	+Main circuit-X10:1				+Main circuit/17.4:E	+Main circuit/17.4:D	Conductor / wire
	+Main circuit-M10:V	+Main circuit-X10:2				+Main circuit/17.4:E	+Main circuit/17.4:D	Conductor / wire
	+Main circuit-M10:W	+Main circuit-X10:3				+Main circuit/17.4:E	+Main circuit/17.4:D	Conductor / wire
	+Main circuit-M10:PE	+Main circuit-X10:PE				+Main circuit/17.4:E	+Main circuit/17.4:D	Conductor / wire
	+Main circuit-M35:U	+Main circuit-X35:1				+Main circuit/17.6:E	+Main circuit/17.6:D	Conductor / wire
	+Main circuit-M35:V	+Main circuit-X35:2				+Main circuit/17.6:E	+Main circuit/17.6:D	Conductor / wire
	+Main circuit-M35:W	+Main circuit-X35:3				+Main circuit/17.6:E	+Main circuit/17.6:D	Conductor / wire
	+Main circuit-M35:PE	+Main circuit-X35:PE				+Main circuit/17.6:E	+Main circuit/17.6:D	Conductor / wire
L11	+Main circuit-Q29:1	+Main circuit-Q30:1				+Main circuit/17.1:A	+Main circuit/17.4:A	Conductor / wire
L21	+Main circuit-Q29:3	+Main circuit-Q30:3				+Main circuit/17.1:A	+Main circuit/17.4:A	Conductor / wire
L31	+Main circuit-Q29:5	+Main circuit-Q30:5				+Main circuit/17.1:A	+Main circuit/17.4:A	Conductor / wire
	+Main circuit-KM9:1	+Main circuit-Q29:2				+Main circuit/17.1:B	+Main circuit/17.1:A	Direct connection



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name	Rev.	100
Drawing No.	L00-0091-100			Page	R2.d
Date	2013.05.17			Total	169
Editor	Vincent				

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-KM9:3	+Main circuit-Q29:4				+Main circuit/17.2:B	+Main circuit/17.1:A	Direct connection
	+Main circuit-KM9:5	+Main circuit-Q29:6				+Main circuit/17.2:B	+Main circuit/17.1:A	Direct connection
PE	PE	+Main circuit-X10:PE				+Main circuit/17.4:D	+Main circuit/17.4:D	Conductor / wire
PE	PE	+Main circuit-X35:PE				+Main circuit/17.6:D	+Main circuit/17.6:D	Conductor / wire
PE	PE	+Main circuit-M9:PE				+Main circuit/17.2:D	+Main circuit/17.1:E	Conductor / wire
		+Main circuit-CNC:L				+Main circuit/18.3:E	+Main circuit/18.3:E	Conductor / wire
		+Main circuit-CNC:N				+Main circuit/18.3:E	+Main circuit/18.3:E	Conductor / wire
		+Main circuit-CNC:PE				+Main circuit/18.3:E	+Main circuit/18.3:E	Conductor / wire
129	+Main circuit-F3:1	+Main circuit-PS3				+Main circuit/18.5:D	+Main circuit/18.5:C	Conductor / wire
131	+Main circuit-F3:2	+Main circuit-KM80:5				+Main circuit/18.5:D	+Main circuit/18.5:D	Conductor / wire
27E	+Main circuit-PS1	+Main circuit-PS3				+Main circuit/18.1:C	+Main circuit/18.5:C	Conductor / wire
151	+Main circuit-F1:1	+Main circuit-PS1				+Main circuit/18.1:C	+Main circuit/18.1:C	Conductor / wire
PE	PE	+Main circuit-PS3:FG				+Main circuit/18.5:B	+Main circuit/18.5:C	Conductor / wire
PE	PE	+Main circuit-PS3				+Main circuit/18.6:B	+Main circuit/18.5:C	Conductor / wire
PE	PE	+Main circuit-PS1:FG				+Main circuit/18.2:B	+Main circuit/18.2:C	Conductor / wire
PE	PE	+Main circuit-PS1				+Main circuit/18.2:B	+Main circuit/18.1:C	Conductor / wire
	+Main circuit-HEAT_EX	+Main circuit-HEAT_EX				+Main circuit/19.3:E	+Main circuit/19.3:E	Direct connection
	+Main circuit-HEAT_EX	+Main circuit-HEAT_EX				+Main circuit/19.4:E	+Main circuit/19.3:E	Direct connection
	+Main circuit-HEAT_EX	+Main circuit-HEAT_EX				+Main circuit/19.4:E	+Main circuit/19.3:E	Direct connection
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.6:E	+Main circuit/19.6:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.6:E	+Main circuit/19.6:E	Direct connection
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.6:E	+Main circuit/19.6:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.6:E	+Main circuit/19.7:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.8:E	+Main circuit/19.6:E	Direct connection
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.8:E	+Main circuit/19.8:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.7:E	+Main circuit/19.7:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.7:E	+Main circuit/19.7:E	Internal
	+Main circuit-ML1	+Main circuit-ML1				+Main circuit/19.7:E	+Main circuit/19.8:E	Internal
33	+Main circuit-F8:2	+Main circuit-M42:1				+Main circuit/19.1:A	+Main circuit/19.1:E	Conductor / wire
34	+Main circuit-F8:4	+Main circuit-M42:2				+Main circuit/19.1:A	+Main circuit/19.1:E	Conductor / wire
33	+Main circuit-F8:2	+Main circuit-M43:1				+Main circuit/19.1:A	+Main circuit/19.2:E	Conductor / wire
	+Main circuit-HEAT_EX:L1	+Main circuit-M43:1				+Main circuit/19.3:E	+Main circuit/19.2:E	Conductor / wire
34	+Main circuit-F8:4	+Main circuit-M43:2				+Main circuit/19.1:A	+Main circuit/19.2:E	Conductor / wire
	+Main circuit-HEAT_EX:L2	+Main circuit-M43:2				+Main circuit/19.4:E	+Main circuit/19.2:E	Conductor / wire
27E	+Main circuit-F8:1	+Main circuit-F11:1				+Main circuit/19.1:A	+Main circuit/19.5:A	Conductor / wire
	+Main circuit-F11:1	+Main circuit-F12:1				+Main circuit/19.5:A	+Main circuit/19.6:A	Conductor / wire
26	+Main circuit-F12:2	+Main circuit-ML1:2				+Main circuit/19.6:A	+Main circuit/19.6:E	Conductor / wire
	+Main circuit-F12:2	+Main circuit-I/O2-K33:13				+Main circuit/19.6:A	+Main circuit/19.6:C	Conductor / wire
333	+Main circuit-I/O2-K33:14	+Main circuit-ML1:1				+Main circuit/19.6:C	+Main circuit/19.6:E	Conductor / wire
25	+Main circuit-F11:2	+Main circuit-KW:9				+Main circuit/19.5:A	+Main circuit/19.5:C	Conductor / wire
71	+Main circuit-H1:2	+Main circuit-KW:5				+Main circuit/19.5:E	+Main circuit/19.5:C	Conductor / wire
72	+Main circuit-H1:1	+Main circuit-KW:8				+Main circuit/19.5:E	+Main circuit/19.5:C	Conductor / wire
413	+Main circuit-F11:4	+Main circuit-KW:12				+Main circuit/19.5:A	+Main circuit/19.5:C	Conductor / wire
	+Main circuit-F11:3	+Main circuit-F12:3				+Main circuit/19.5:A	+Main circuit/19.7:A	Conductor / wire
414	+Main circuit-F12:4	+Main circuit-ML1:3				+Main circuit/19.7:A	+Main circuit/19.7:E	Conductor / wire
PE	PE	+Main circuit-H1:PE				+Main circuit/19.5:D	+Main circuit/19.5:E	Conductor / wire
PE	PE	+Main circuit-HEAT_EX:PE				+Main circuit/19.4:D	+Main circuit/19.4:E	Conductor / wire
PE	PE	+Main circuit-M43:PE				+Main circuit/19.3:D	+Main circuit/19.2:E	Conductor / wire
PE	PE	+Main circuit-M42:PE				+Main circuit/19.2:D	+Main circuit/19.1:E	Conductor / wire
PE	PE	+Main circuit-ML1:7				+Main circuit/19.8:D	+Main circuit/19.8:E	Conductor / wire
	+Main circuit-M22	+Main circuit-M22				+Main circuit/20.2:E	+Main circuit/20.2:E	Internal
	+Main circuit-M22	+Main circuit-M22				+Main circuit/20.2:E	+Main circuit/20.2:E	Internal
	+Main circuit-M22	+Main circuit-M22				+Main circuit/20.2:E	+Main circuit/20.2:E	Internal
	+Main circuit-M22	+Main circuit-M22				+Main circuit/20.2:E	+Main circuit/20.2:E	Internal
	+Main circuit-M22	+Main circuit-M22				+Main circuit/20.2:E	+Main circuit/20.2:E	Direct connection
59	+Main circuit-F42:2	+Main circuit-M22:L1				+Main circuit/20.2:A	+Main circuit/20.2:E	Conductor / wire
61	+Main circuit-F42:4	+Main circuit-M22:L2				+Main circuit/20.2:A	+Main circuit/20.2:E	Conductor / wire



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Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.e
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
73	+Main circuit-E1:x1	+Main circuit-KM31:2				+Main circuit/20.4:E	+Main circuit/20.4:B	Conductor / wire
	+Main circuit-F42:3	+Main circuit-KM31:3				+Main circuit/20.2:A	+Main circuit/20.4:B	Conductor / wire
74	+Main circuit-E2:x1	+Main circuit-KM31:4				+Main circuit/20.4:E	+Main circuit/20.4:B	Conductor / wire
	+Main circuit-F39:1	+Main circuit-F42:1				+Main circuit/20.5:A	+Main circuit/20.2:A	Conductor / wire
	+Main circuit-F39:1	+Main circuit-KM100:53				+Main circuit/20.5:A	+Main circuit/20.7:B	Conductor / wire
	+Main circuit-F39:3	+Main circuit-KM31:1				+Main circuit/20.5:A	+Main circuit/20.4:B	Conductor / wire
	+Main circuit-F39:3	+Main circuit-KM100:63				+Main circuit/20.5:A	+Main circuit/20.7:B	Conductor / wire
	+Main circuit-F39:5	+Main circuit-KM31:3				+Main circuit/20.5:A	+Main circuit/20.4:B	Conductor / wire
	+Main circuit-F39:5	+Main circuit-KM100:73				+Main circuit/20.5:A	+Main circuit/20.7:B	Conductor / wire
PE	PE	+Main circuit-M22:PE				+Main circuit/20.3:D	+Main circuit/20.3:E	Conductor / wire
PE	PE	+Main circuit-M19:PE				+Main circuit/20.6:D	+Main circuit/20.5:E	Conductor / wire
	+Main circuit-KM2-1:1	+Main circuit-Q22:2				+Main circuit/21.1:B	+Main circuit/21.1:A	Direct connection
	+Main circuit-KM2-1:5	+Main circuit-Q22:6				+Main circuit/21.2:B	+Main circuit/21.1:A	Direct connection
	+Main circuit-KM2-1:3	+Main circuit-Q22:4				+Main circuit/21.2:B	+Main circuit/21.1:A	Direct connection
	+Main circuit-KM2-1:1	+Main circuit-KM2-2:1				+Main circuit/21.1:B	+Main circuit/21.3:B	Direct connection
	+Main circuit-KM2-1:6	+Main circuit-KM2-2:2				+Main circuit/21.2:B	+Main circuit/21.3:B	Conductor / wire
	+Main circuit-KM2-1:5	+Main circuit-KM2-2:5				+Main circuit/21.2:B	+Main circuit/21.3:B	Direct connection
	+Main circuit-KM2-1:2	+Main circuit-KM2-2:6				+Main circuit/21.1:B	+Main circuit/21.3:B	Conductor / wire
	+Main circuit-KM2-1:3	+Main circuit-KM2-2:3				+Main circuit/21.2:B	+Main circuit/21.3:B	Direct connection
	+Main circuit-KM2-1:4	+Main circuit-KM2-2:4				+Main circuit/21.2:B	+Main circuit/21.3:B	Conductor / wire
	+Main circuit-F16*:5	+Main circuit-Q22:5				+Main circuit/21.6:A	+Main circuit/21.1:A	Conductor / wire
	+Main circuit-F16:1	+Main circuit-Q22:1				+Main circuit/21.5:A	+Main circuit/21.1:A	Conductor / wire
	+Main circuit-F16:1	+Main circuit-F16*:1				+Main circuit/21.5:A	+Main circuit/21.6:A	Conductor / wire
	+Main circuit-F16:3	+Main circuit-Q22:3				+Main circuit/21.5:A	+Main circuit/21.1:A	Conductor / wire
	+Main circuit-F16:3	+Main circuit-F16*:3				+Main circuit/21.5:A	+Main circuit/21.6:A	Conductor / wire
27E	+Main circuit-PS1	+Main circuit-TR1:220V				+Main circuit/18.1:C	+Main circuit/13.5:D	Conductor / wire
28E	+Main circuit-PS1	+Main circuit-TR1:220V				+Main circuit/18.1:C	+Main circuit/13.6:D	Conductor / wire
L11E	+Main circuit-F7:1	+Main circuit-F101:1				+Main circuit/13.6:B	+Main circuit/14.2:A	Conductor / wire
L21E	+Main circuit-F7:3	+Main circuit-F101:3				+Main circuit/13.6:B	+Main circuit/14.2:A	Conductor / wire
L31E	+Main circuit-F7:5	+Main circuit-F101:5				+Main circuit/13.6:B	+Main circuit/14.2:A	Conductor / wire
L11	+Main circuit-KM100:2	+Main circuit-Q23:1				+Main circuit/15.8:B	+Main circuit/16.1:A	Conductor / wire
L21	+Main circuit-KM100:4	+Main circuit-Q23:3				+Main circuit/15.8:B	+Main circuit/16.1:A	Conductor / wire
L31	+Main circuit-KM100:6	+Main circuit-Q23:5				+Main circuit/15.8:B	+Main circuit/16.1:A	Conductor / wire
DCH1	+Main circuit-MO:15	+Main circuit-X54:4				+Main circuit/15.7:E	+Main circuit/15.4:D	Conductor / wire
L11	+Main circuit-Q25:1	+Main circuit-Q29:1				+Main circuit/16.6:A	+Main circuit/17.1:A	Conductor / wire
L21	+Main circuit-Q25:3	+Main circuit-Q29:3				+Main circuit/16.6:A	+Main circuit/17.1:A	Conductor / wire
L31	+Main circuit-Q25:5	+Main circuit-Q29:5				+Main circuit/16.6:A	+Main circuit/17.1:A	Conductor / wire
	+Main circuit-F8:1	+Main circuit-PS3				+Main circuit/19.1:A	+Main circuit/18.5:C	Conductor / wire
29E	+Main circuit-F11:3	+Main circuit-PS3				+Main circuit/19.5:A	+Main circuit/18.5:C	Conductor / wire
DCH1	+Main circuit-F1:2	+Main circuit-ML1:4				+Main circuit/18.1:C	+Main circuit/19.7:E	Conductor / wire
27E	+Main circuit-F12:1	+Main circuit-F42:1				+Main circuit/19.6:A	+Main circuit/20.2:A	Conductor / wire
28E	+Main circuit-F8:3	+Main circuit-KM31:1				+Main circuit/19.1:A	+Main circuit/20.4:B	Conductor / wire
29E	+Main circuit-F12:3	+Main circuit-F42:3				+Main circuit/19.7:A	+Main circuit/20.2:A	Conductor / wire
DCH1	+Main circuit-M22:11	+Main circuit-ML1:4				+Main circuit/20.2:E	+Main circuit/19.7:E	Conductor / wire
27	+Main circuit-KM100:54	+Main circuit-Q22:1				+Main circuit/20.7:B	+Main circuit/21.1:A	Conductor / wire
28	+Main circuit-KM100:64	+Main circuit-Q22:3				+Main circuit/20.7:B	+Main circuit/21.1:A	Conductor / wire
29	+Main circuit-KM100:74	+Main circuit-Q22:5				+Main circuit/20.7:B	+Main circuit/21.1:A	Conductor / wire
28E	+Main circuit-PS1	+Main circuit-PS2				+Main circuit/18.1:C	+Main circuit/18.3:C	Conductor / wire
PE	PE	+Main circuit-PS2:FG				+Main circuit/18.3:B	+Main circuit/18.3:C	Conductor / wire
PE	PE	+Main circuit-PS2				+Main circuit/18.3:B	+Main circuit/18.3:C	Conductor / wire
DCH2		+Main circuit-KM80:2				+Main circuit/18.3:E	+Main circuit/18.3:D	Conductor / wire
DCN2		+Main circuit-PS2				+Main circuit/18.3:E	+Main circuit/18.3:C	Conductor / wire
	+Main circuit-PS2	+Main circuit-PS3				+Main circuit/18.3:C	+Main circuit/18.5:C	Conductor / wire
PE	PE					+Main circuit/18.3:B	+Main circuit/18.3:E	Conductor / wire
128	+Main circuit-F2:1	+Main circuit-PS2				+Main circuit/18.3:C	+Main circuit/18.3:C	Conductor / wire
130	+Main circuit-F2:2	+Main circuit-KM80:1				+Main circuit/18.3:C	+Main circuit/18.3:D	Conductor / wire
29E	+Main circuit-PS2	+Main circuit-TR1:220V				+Main circuit/18.3:C	+Main circuit/13.6:D	Conductor / wire



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Drawing No.	L00-0091-100		Rev. 100
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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
28E	+Main circuit-F8:3	+Main circuit-PS2				+Main circuit/19.1:A	+Main circuit/18.3:C	Conductor / wire
79	+Main circuit-K323:14	+Main circuit-KM101:A1				+Main circuit/22.1:B	+Main circuit/22.1:D	Conductor / wire
	+Main circuit-KM100:A2	+Main circuit-KM101*:A2				+Main circuit/22.3:D	+Main circuit/22.4:D	Conductor / wire
	+Main circuit-K321:13	+Main circuit-K323:13				+Main circuit/22.3:B	+Main circuit/22.1:B	Conductor / wire
80	+Main circuit-K321:14	+Main circuit-KM100:A1				+Main circuit/22.3:B	+Main circuit/22.3:D	Conductor / wire
79	+Main circuit-KM101*:A1	+Main circuit-KT:18				+Main circuit/22.7:D	+Main circuit/22.7:B	Conductor / wire
24VA	+Main circuit-KM3:A2	+Main circuit-KM80:A2				+Main circuit/23.5:E	+Main circuit/23.4:E	Conductor / wire
311	+Main circuit-I/O2-K36:11	+Main circuit-Q23:14				+Main circuit/23.5:C	+Main circuit/23.5:A	Conductor / wire
336	+Main circuit-I/O2-K36:14	+Main circuit-KM3:A1				+Main circuit/23.5:C	+Main circuit/23.5:E	Conductor / wire
24VD	+Main circuit-K322:14	+Main circuit-Q23:13				+Main circuit/23.1:B	+Main circuit/23.5:A	Conductor / wire
24VC	+Main circuit-K321:13	+Main circuit-K322:13				+Main circuit/23.2:B	+Main circuit/23.1:B	Conductor / wire
	+Main circuit-KM5:A1	+Main circuit-KM35:A1				+Main circuit/23.6:E	+Main circuit/23.7:E	Conductor / wire
	+Main circuit-KM3:A2	+Main circuit-KM5:A2				+Main circuit/23.5:E	+Main circuit/23.6:E	Conductor / wire
	+Main circuit-KM5:A2	+Main circuit-KM35:A2				+Main circuit/23.6:E	+Main circuit/23.7:E	Conductor / wire
24VE	+Main circuit-K321:14	+Main circuit-Q25:13				+Main circuit/23.2:B	+Main circuit/23.6:A	Conductor / wire
315	+Main circuit-Q25:14	+Main circuit-Q55:13				+Main circuit/23.6:A	+Main circuit/23.6:B	Conductor / wire
317	+Main circuit-I/O2-K38:11	+Main circuit-Q55:14				+Main circuit/23.6:C	+Main circuit/23.6:B	Conductor / wire
338	+Main circuit-I/O2-K38:14	+Main circuit-KM5:A1				+Main circuit/23.6:C	+Main circuit/23.6:E	Conductor / wire
	+Main circuit-KM10-1:A2	+Main circuit-KM10-2:A2				+Main circuit/24.3:E	+Main circuit/24.4:E	Conductor / wire
321	+Main circuit-KM10-1:A1	+Main circuit-KM10-2:22				+Main circuit/24.3:E	+Main circuit/24.3:D	Conductor / wire
322	+Main circuit-KM10-1:22	+Main circuit-KM10-2:A1				+Main circuit/24.4:D	+Main circuit/24.4:E	Conductor / wire
323	+Main circuit-I/O2-K37*:11	+Main circuit-Q30:14				+Main circuit/24.3:C	+Main circuit/24.3:A	Conductor / wire
337	+Main circuit-I/O2-K37*:14	+Main circuit-KM10-2:21				+Main circuit/24.3:C	+Main circuit/24.3:D	Conductor / wire
323	+Main circuit-I/O2-K39*:11	+Main circuit-Q30:14				+Main circuit/24.4:C	+Main circuit/24.3:A	Conductor / wire
339	+Main circuit-I/O2-K39*:14	+Main circuit-KM10-1:21				+Main circuit/24.4:C	+Main circuit/24.4:D	Conductor / wire
24VA	+Main circuit-KM31:A2	+Main circuit-KW:12				+Main circuit/24.6:E	+Main circuit/24.7:C	Conductor / wire
324	+Main circuit-KM31:A1	+Main circuit-S3:12				+Main circuit/24.6:E	+Main circuit/24.6:A	Conductor / wire
24VC	+Main circuit-S3:11	+OPT6-F15:1				+Main circuit/24.6:A	+Main circuit/24.7:A	Conductor / wire
327	+Main circuit-KW:8	+OPT6-EH7:1				+Main circuit/24.7:C	+Main circuit/24.7:E	Conductor / wire
325	+Main circuit-KW:9	+OPT6-F15:2				+Main circuit/24.7:C	+Main circuit/24.7:A	Conductor / wire
326	+Main circuit-KW:5	+OPT6-EH7:2				+Main circuit/24.7:C	+Main circuit/24.7:E	Conductor / wire
24VA	+Main circuit-KM9:A2	+Main circuit-KM10-2:A2				+Main circuit/24.5:E	+Main circuit/24.4:E	Conductor / wire
24VA	+Main circuit-KM9:A2	+Main circuit-KM31:A2				+Main circuit/24.5:E	+Main circuit/24.6:E	Conductor / wire
316	+Main circuit-I/O2-K40:11	+Main circuit-Q29:14				+Main circuit/24.5:C	+Main circuit/24.5:A	Conductor / wire
340	+Main circuit-I/O2-K40:14	+Main circuit-KM9:A1				+Main circuit/24.5:C	+Main circuit/24.5:E	Conductor / wire
24VA	+Main circuit-KM4-1:A2	+Main circuit-KM4-2:A2				+Main circuit/24.1:E	+Main circuit/24.2:E	Conductor / wire
24VA	+Main circuit-KM4-2:A2	+Main circuit-KM10-1:A2				+Main circuit/24.2:E	+Main circuit/24.3:E	Conductor / wire
24VD	+Main circuit-Q24:13	+Main circuit-Q30:13				+Main circuit/24.2:A	+Main circuit/24.3:A	Conductor / wire
313	+Main circuit-KM4-1:A1	+Main circuit-KM4-2:22				+Main circuit/24.1:E	+Main circuit/24.1:D	Conductor / wire
314	+Main circuit-KM4-1:22	+Main circuit-KM4-2:A1				+Main circuit/24.2:D	+Main circuit/24.2:E	Conductor / wire
312	+Main circuit-I/O2-K37:11	+Main circuit-Q24:14				+Main circuit/24.1:C	+Main circuit/24.2:A	Conductor / wire
337	+Main circuit-I/O2-K37:14	+Main circuit-KM4-2:21				+Main circuit/24.1:C	+Main circuit/24.1:D	Conductor / wire
	+Main circuit-I/O2-K37:11	+Main circuit-I/O2-K39:11				+Main circuit/24.1:C	+Main circuit/24.2:C	Conductor / wire
339	+Main circuit-I/O2-K39:14	+Main circuit-KM4-1:21				+Main circuit/24.2:C	+Main circuit/24.2:D	Conductor / wire
	PE	+OPT6-EH7:PE				+Main circuit/24.7:B	+Main circuit/24.7:E	Conductor / wire
24VA	+Main circuit-KM2-1:A2	+Main circuit-KM2-2:A2				+Main circuit/25.1:E	+Main circuit/25.3:E	Conductor / wire
329	+Main circuit-KM2-1:A1	+Main circuit-KM2-2:22				+Main circuit/25.1:E	+Main circuit/25.1:D	Conductor / wire
330	+Main circuit-KM2-1:22	+Main circuit-KM2-2:A1				+Main circuit/25.3:D	+Main circuit/25.3:E	Conductor / wire
331	+Main circuit-I_O2-K52:11	+Main circuit-Q22:14				+Main circuit/25.1:C	+Main circuit/25.1:A	Conductor / wire
352	+Main circuit-I_O2-K52:14	+Main circuit-KM2-2:21				+Main circuit/25.1:C	+Main circuit/25.1:D	Conductor / wire
353	+Main circuit-I_O2-K53:14	+Main circuit-KM2-1:21				+Main circuit/25.3:C	+Main circuit/25.3:D	Conductor / wire
331	+Main circuit-K90:11	+Main circuit-Q22:14				+Main circuit/25.2:C	+Main circuit/25.1:A	Conductor / wire
	+Main circuit-I_O2-K53:11	+Main circuit-K90:11				+Main circuit/25.3:C	+Main circuit/25.2:C	Conductor / wire
352	+Main circuit-I_O2-K52:14	+Main circuit-K90:14				+Main circuit/25.1:C	+Main circuit/25.2:C	Conductor / wire
	+Main circuit-I_O2-K53:11	+Main circuit-K91:11				+Main circuit/25.3:C	+Main circuit/25.4:C	Conductor / wire
353	+Main circuit-I_O2-K53:14	+Main circuit-K91:14				+Main circuit/25.3:C	+Main circuit/25.4:C	Conductor / wire
	+Main circuit-K300:9	+Main circuit-K300:10				+Main circuit/26.4:A	+Main circuit/26.4:A	Conductor / wire



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Drawing No.	L00-0091-100		
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		Page	R2.g
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-SQ1**12	+Main circuit-SQ1**X1				+Main circuit/27.7:C	+Main circuit/27.8:C	Conductor / wire
	+Main circuit-SQ1**	+Main circuit-SQ1**GN				+Main circuit/27.8:C	+Main circuit/27.8:C	Internal
	+Main circuit-SQ1**42	+Main circuit-SQ1**X2				+Main circuit/27.7:C	+Main circuit/27.8:C	Conductor / wire
	+Main circuit-SQ1**	+Main circuit-SQ1**OG				+Main circuit/27.8:C	+Main circuit/27.8:C	Internal
	+Main circuit-I/O2-K7*:11	+Main circuit-SQ1:21				+Main circuit/27.4:B	+Main circuit/27.2:C	Conductor / wire
	+Main circuit-I/O2-K7*:11	+Main circuit-SQ1*:11				+Main circuit/27.4:B	+Main circuit/27.4:C	Conductor / wire
307	+Main circuit-I/O2-K7*:14	+Main circuit-SQ1*:E1				+Main circuit/27.4:B	+Main circuit/27.4:C	Conductor / wire
307	+Main circuit-I/O2-K7:14	+Main circuit-SQ1:E1				+Main circuit/27.1:B	+Main circuit/27.1:C	Conductor / wire
	+Main circuit-I/O2-K7**11	+Main circuit-SQ1*:11				+Main circuit/27.7:B	+Main circuit/27.4:C	Conductor / wire
	+Main circuit-I/O2-K7**11	+Main circuit-SQ1**11				+Main circuit/27.7:B	+Main circuit/27.7:C	Conductor / wire
307	+Main circuit-I/O2-K7**14	+Main circuit-SQ1**E1				+Main circuit/27.7:B	+Main circuit/27.7:C	Conductor / wire
	+Main circuit-SQ28:11	+Main circuit-SQ28:21				+Main circuit/28.2:C	+Main circuit/28.3:C	Conductor / wire
	+Main circuit-SQ28	+Main circuit-SQ28				+Main circuit/28.2:C	+Main circuit/28.2:C	Internal
	+Main circuit-SQ28	+Main circuit-SQ28				+Main circuit/28.2:C	+Main circuit/28.2:C	Internal
	+Main circuit-SQ28	+Main circuit-SQ28				+Main circuit/28.3:C	+Main circuit/28.3:C	Internal
	+Main circuit-SQ28	+Main circuit-SQ28				+Main circuit/28.3:C	+Main circuit/28.3:C	Internal
	+Main circuit-SQ28*	+Main circuit-SQ28*				+Main circuit/28.4:C	+Main circuit/28.4:C	Internal
	+Main circuit-SQ28*	+Main circuit-SQ28*				+Main circuit/28.4:C	+Main circuit/28.4:C	Internal
	+Main circuit-SQ28*	+Main circuit-SQ28*				+Main circuit/28.5:C	+Main circuit/28.5:C	Internal
	+Main circuit-SQ28*	+Main circuit-SQ28*				+Main circuit/28.5:C	+Main circuit/28.5:C	Internal
	+Main circuit-SQ28**	+Main circuit-SQ28**				+Main circuit/28.6:C	+Main circuit/28.6:C	Internal
	+Main circuit-SQ28**	+Main circuit-SQ28**				+Main circuit/28.6:C	+Main circuit/28.6:C	Internal
	+Main circuit-SQ28**	+Main circuit-SQ28**				+Main circuit/28.7:C	+Main circuit/28.7:C	Internal
	+Main circuit-SQ28**	+Main circuit-SQ28**				+Main circuit/28.7:C	+Main circuit/28.7:C	Internal
	+Main circuit-SB23:13	+Main circuit-SB23:23				+Main circuit/29.4:B	+Main circuit/29.5:B	Conductor / wire
DCN1	+Main circuit-K310:A2	+Main circuit-K311:A2				+Main circuit/29.6:E	+Main circuit/29.7:E	Conductor / wire
3003	+Main circuit-K310:12	+Main circuit-K311:11				+Main circuit/30.6:C	+Main circuit/30.6:C	Conductor / wire
3006	+Main circuit-KM101*:62	+Main circuit-KM102*:61				+Main circuit/30.6:D	+Main circuit/30.6:D	Conductor / wire
3007	+Main circuit-KM100*:21	+Main circuit-KM102*:62				+Main circuit/30.5:C	+Main circuit/30.6:D	Conductor / wire
3008	+Main circuit-KM5*:21	+Main circuit-KM100*:22				+Main circuit/30.5:C	+Main circuit/30.5:C	Conductor / wire
3009	+Main circuit-KM5*:22	+Main circuit-KM6*:21				+Main circuit/30.5:C	+Main circuit/30.5:C	Conductor / wire
3010	+Main circuit-KM6*:22	+Main circuit-KM9*:21				+Main circuit/30.5:C	+Main circuit/30.5:D	Conductor / wire
3011	+Main circuit-KM9*:22	+Main circuit-KM35*:21				+Main circuit/30.5:D	+Main circuit/30.5:D	Conductor / wire
3024	+Main circuit-KM2-1*:62	+Main circuit-KM2-2*:61				+Main circuit/30.8:C	+Main circuit/30.8:C	Conductor / wire
3025	+Main circuit-KM2-2*:62	+Main circuit-KM3*:21				+Main circuit/30.8:C	+Main circuit/30.8:C	Conductor / wire
3026	+Main circuit-KM3*:22	+Main circuit-KM4-1*:61				+Main circuit/30.8:C	+Main circuit/30.8:D	Conductor / wire
3027	+Main circuit-KM0-1*:61	+Main circuit-KM4-1*:62				+Main circuit/30.8:D	+Main circuit/30.8:D	Conductor / wire
3030	+Main circuit-KM0-1*:62	+Main circuit-KM12*:21				+Main circuit/30.8:D	+Main circuit/30.8:E	Conductor / wire
3005	+Main circuit-K323:12	+Main circuit-KM101:61				+Main circuit/30.3:C	+Main circuit/30.3:D	Conductor / wire
3006	+Main circuit-KM101:62	+Main circuit-KM102:61				+Main circuit/30.3:D	+Main circuit/30.3:D	Conductor / wire
3007	+Main circuit-KM100:21	+Main circuit-KM102:62				+Main circuit/30.3:C	+Main circuit/30.3:D	Conductor / wire
3008	+Main circuit-KM5:21	+Main circuit-KM100:22				+Main circuit/30.3:C	+Main circuit/30.3:C	Conductor / wire
3009	+Main circuit-KM5:22	+Main circuit-KM6:21				+Main circuit/30.3:C	+Main circuit/30.3:C	Conductor / wire
3010	+Main circuit-KM6:22	+Main circuit-KM9:21				+Main circuit/30.3:C	+Main circuit/30.3:D	Conductor / wire
3011	+Main circuit-KM9:22	+Main circuit-KM35:21				+Main circuit/30.3:D	+Main circuit/30.3:D	Conductor / wire
	+Main circuit-K321:11	+Main circuit-KM2-1:61				+Main circuit/30.3:C	+Main circuit/30.4:C	Conductor / wire
3024	+Main circuit-KM2-1:62	+Main circuit-KM2-2:61				+Main circuit/30.4:C	+Main circuit/30.4:C	Conductor / wire
3025	+Main circuit-KM2-2:62	+Main circuit-KM3:21				+Main circuit/30.4:C	+Main circuit/30.4:C	Conductor / wire
3026	+Main circuit-KM3:22	+Main circuit-KM4-1:61				+Main circuit/30.4:C	+Main circuit/30.4:D	Conductor / wire
3027	+Main circuit-KM0-1:61	+Main circuit-KM4-1:62				+Main circuit/30.4:D	+Main circuit/30.4:D	Conductor / wire
3030	+Main circuit-KM0-1:62	+Main circuit-KM12:21				+Main circuit/30.4:D	+Main circuit/30.4:E	Conductor / wire
3003	+Main circuit-K321:12	+Main circuit-K322:11				+Main circuit/30.3:C	+Main circuit/30.3:C	Conductor / wire
3004	+Main circuit-K322:12	+Main circuit-K323:11				+Main circuit/30.3:C	+Main circuit/30.3:C	Conductor / wire
	+Main circuit-DINA_2:P1	+Main circuit-DINA_2-B13:1				+Main circuit/31.6:C	+Main circuit/31.6:C	Conductor / wire
	+Main circuit-DINA_2:P1	+Main circuit-DINA_2:P2				+Main circuit/31.6:C	+Main circuit/31.6:C	Conductor / wire
	+Main circuit-DINA_1:16	+Main circuit-DINA_1:117				+Main circuit/31.3:C	+Main circuit/31.4:C	Conductor / wire
	+Main circuit-DINA_1:117	+Main circuit-DINA_1:120				+Main circuit/31.4:C	+Main circuit/31.5:C	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
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		Total	169

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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-DINA_1:I20	+Main circuit-DINA_2:P1				+Main circuit/31.5:C	+Main circuit/31.6:C	Conductor / wire
	+Main circuit-DINA_1	+Main circuit-DINA_1				+Main circuit/31.4:C	+Main circuit/31.4:C	Direct connection
	+Main circuit-DINA_1	+Main circuit-DINA_1				+Main circuit/31.4:C	+Main circuit/31.4:C	Direct connection
	+Main circuit-DINA_1	+Main circuit-DINA_1				+Main circuit/31.5:C	+Main circuit/31.5:C	Direct connection
	+Main circuit-DINA_1	+Main circuit-DINA_1				+Main circuit/31.5:C	+Main circuit/31.5:C	Direct connection
	+Main circuit-DINA_1:A1	+Main circuit-DINA_1:I6				+Main circuit/31.1:C	+Main circuit/31.3:C	Conductor / wire
	+Main circuit-DINA_1:O2	+Main circuit-K321:A1				+Main circuit/31.3:C	+Main circuit/31.3:E	Conductor / wire
	+Main circuit-DINA_1:A2	+Main circuit-K321:A2				+Main circuit/31.2:C	+Main circuit/31.3:E	Conductor / wire
	+Main circuit-DINA_1:O3	+Main circuit-K322:A1				+Main circuit/31.3:C	+Main circuit/31.3:E	Conductor / wire
	+Main circuit-K321:A2	+Main circuit-K322:A2				+Main circuit/31.3:E	+Main circuit/31.3:E	Conductor / wire
	+Main circuit-DINA_2:O4	+Main circuit-K323:A1				+Main circuit/31.8:C	+Main circuit/31.8:E	Conductor / wire
	+Main circuit-K322:A2	+Main circuit-K323:A2				+Main circuit/31.3:E	+Main circuit/31.8:E	Conductor / wire
	PE	+Main circuit-DINA_2-B13				+Main circuit/31.8:B	+Main circuit/31.8:C	Conductor / wire
	+Main circuit-DINA_3:P1	+Main circuit-DINA_3:P2				+Main circuit/32.2:C	+Main circuit/32.2:C	Conductor / wire
	PE	+Main circuit-DINA_3-B13				+Main circuit/32.4:B	+Main circuit/32.4:C	Conductor / wire
	+Main circuit-SF1-K1	+Main circuit-SF1-K2				+Main circuit/33.4:C	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1	+Main circuit-SF1-K1				+Main circuit/33.4:C	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1	+Main circuit-SF1-K2				+Main circuit/33.4:D	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.5:C	+Main circuit/33.5:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.5:C	+Main circuit/33.5:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.5:D	+Main circuit/33.5:C	Direct connection
101	+Main circuit-SF1:S12	+Main circuit-SF1-SF11:51				+Main circuit/33.3:C	+Main circuit/33.6:C	Conductor / wire
	+Main circuit-SF1:13	+Main circuit-SF1:A1				+Main circuit/33.4:C	+Main circuit/33.2:C	Conductor / wire
	+Main circuit-SF1	+Main circuit-SF1-K1				+Main circuit/33.4:C	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1-K1	+Main circuit-SF1-K2				+Main circuit/33.4:C	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1	+Main circuit-SF1-K2				+Main circuit/33.4:D	+Main circuit/33.4:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.5:C	+Main circuit/33.5:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.5:C	+Main circuit/33.5:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.5:D	+Main circuit/33.5:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:D	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:D	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:D	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K1				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11-K1	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:C	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF1-SF11	+Main circuit-SF1-SF11-K2				+Main circuit/33.6:D	+Main circuit/33.6:C	Direct connection
	+Main circuit-SF2-K1	+Main circuit-SF2-K2				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K1				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K2				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2:23	+Main circuit-SF2:A1				+Main circuit/34.4:D	+Main circuit/34.3:D	Conductor / wire
	+Main circuit-SF2-K3	+Main circuit-SF2-K4				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2-K3	+Main circuit-SF2-K4				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K3				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K3				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K4				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K4				+Main circuit/34.5:D	+Main circuit/34.5:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K1:13				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2-K1:14	+Main circuit-SF2-K2:13				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF2	+Main circuit-SF2-K2:14				+Main circuit/34.4:D	+Main circuit/34.4:D	Direct connection
	+Main circuit-SF21-K1	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
3128	+Main circuit-SF2:S12	+Main circuit-SF21:51				+Main circuit/34.3:D	+Main circuit/34.8:D	Conductor / wire
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection



Connection list : -

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Drawing No.	L00-0091-100		
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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21-K1	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21-K1	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K2				+Main circuit/34.7:D	+Main circuit/34.7:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.8:D	+Main circuit/34.8:D	Direct connection
	+Main circuit-SF21-K1	+Main circuit-SF21-K2				+Main circuit/34.8:D	+Main circuit/34.8:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K2				+Main circuit/34.8:D	+Main circuit/34.8:D	Direct connection
	+Main circuit-SF21	+Main circuit-SF21-K1				+Main circuit/34.8:D	+Main circuit/34.8:D	Direct connection
	+Main circuit-E-STOP-KA200:A2	+Main circuit-E-STOP-KA201:A2				+Main circuit/35.2:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA201:A2	+Main circuit-E-STOP-KA202:A2				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA200:14	+Main circuit-E-STOP-KA200:A1				+Main circuit/35.2:D	+Main circuit/35.2:D	Direct connection
	+Main circuit-E-STOP-KA201:14	+Main circuit-E-STOP-KA201:A1				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA200:13	+Main circuit-E-STOP-KA202:13				+Main circuit/35.2:D	+Main circuit/35.2:D	Direct connection
	+Main circuit-E-STOP-KA200:14	+Main circuit-E-STOP-KA202:14				+Main circuit/35.2:D	+Main circuit/35.2:D	Direct connection
	+Main circuit-E-STOP-KA201:13	+Main circuit-E-STOP-KA202:23				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA201:14	+Main circuit-E-STOP-KA202:24				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA201:12	+Main circuit-E-STOP-KA202:A1				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA200:12	+Main circuit-E-STOP-KA201:11				+Main circuit/35.3:C	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP-KA200:23	+Main circuit-E-STOP-KA202:12				+Main circuit/35.4:C	+Main circuit/35.4:C	Direct connection
	+Main circuit-E-STOP-KA200:33	+Main circuit-E-STOP-KA202:22				+Main circuit/35.4:C	+Main circuit/35.4:C	Direct connection
	+Main circuit-E-STOP-KA200:24	+Main circuit-E-STOP-KA201:23				+Main circuit/35.4:C	+Main circuit/35.4:D	Direct connection
	+Main circuit-E-STOP-KA200:34	+Main circuit-E-STOP-KA201:33				+Main circuit/35.4:C	+Main circuit/35.4:D	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA202:A2				+Main circuit/35.3:D	+Main circuit/35.3:D	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA200:11				+Main circuit/35.3:C	+Main circuit/35.3:C	Direct connection
	+Main circuit-E-STOP:EI3	+Main circuit-E-STOP:O1-1				+Main circuit/35.3:C	+Main circuit/35.4:C	Conductor / wire
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA202:11				+Main circuit/35.4:C	+Main circuit/35.4:C	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA202:21				+Main circuit/35.4:C	+Main circuit/35.4:C	Direct connection
	+Main circuit-E-STOP-KA201:24	+Main circuit-E-STOP-KA202				+Main circuit/35.4:D	+Main circuit/35.4:D	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA201:34				+Main circuit/35.4:D	+Main circuit/35.4:D	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA200:13				+Main circuit/35.2:C	+Main circuit/35.2:D	Direct connection
	+Main circuit-E-STOP	+Main circuit-E-STOP-KA201:13				+Main circuit/35.3:C	+Main circuit/35.3:D	Direct connection
	+Main circuit-I/O2-K1:13	+Main circuit-I/O2-K1*:13				+Main circuit/36.2:B	+Main circuit/36.7:B	Conductor / wire
	+Main circuit-I/O2-K1:13	+Main circuit-K321:13				+Main circuit/36.2:B	+Main circuit/36.2:B	Conductor / wire
	+Main circuit-KM30*:A2	+Main circuit-KM30*:A2				+Main circuit/36.4:E	+Main circuit/36.6:E	Conductor / wire
	+Main circuit-KM30:A2	+Main circuit-KM30*:A2				+Main circuit/36.2:E	+Main circuit/36.4:E	Conductor / wire
132	+Main circuit-I/O1-K6:13	+Main circuit-K321:14				+Main circuit/36.2:C	+Main circuit/36.2:B	Conductor / wire
	+Main circuit-I/O2-K2:13	+Main circuit-I/O2-K4:13				+Main circuit/37.1:C	+Main circuit/37.2:C	Conductor / wire
	+Main circuit-I/O2-K3:13	+Main circuit-K69:13				+Main circuit/37.3:C	+Main circuit/37.3:C	Conductor / wire
	+Main circuit-I/O2-K2*:13	+Main circuit-I/O2-K4*:13				+Main circuit/37.5:C	+Main circuit/37.6:C	Conductor / wire
	+Main circuit-I/O2-K3*:13	+Main circuit-K69*:13				+Main circuit/37.7:C	+Main circuit/37.7:C	Conductor / wire
	+Main circuit-KM101:13	+Main circuit-KM101:21				+Main circuit/38.2:A	+Main circuit/38.1:A	Conductor / wire
	+Main circuit-KM101:13	+Main circuit-KM101:53				+Main circuit/38.2:A	+Main circuit/38.2:A	Conductor / wire
DCH1	+Main circuit-KM3:13	+Main circuit-KM4-1:13				+Main circuit/39.2:B	+Main circuit/39.3:B	Conductor / wire
DCH1	+Main circuit-KM4-1:13	+Main circuit-KM4-2:13				+Main circuit/39.3:B	+Main circuit/39.3:B	Conductor / wire
DCN1	+Main circuit-EH6:x2	+Main circuit-KW:13				+Main circuit/39.6:E	+Main circuit/39.5:E	Conductor / wire
	+Main circuit-KM4-2:13	+Main circuit-KM10-1:13				+Main circuit/39.3:B	+Main circuit/39.4:B	Conductor / wire
	+Main circuit-KM10-1:13	+Main circuit-KM10-2:13				+Main circuit/39.4:B	+Main circuit/39.5:B	Conductor / wire
	+Main circuit-EH6:x1	+Main circuit-KM10-2:13				+Main circuit/39.6:E	+Main circuit/39.5:B	Conductor / wire
DCH1	+Main circuit-KM80:13	+Main circuit-KM80:21				+Main circuit/39.1:B	+Main circuit/39.2:B	Conductor / wire
DCH1	+Main circuit-KM3:13	+Main circuit-KM80:21				+Main circuit/39.2:B	+Main circuit/39.2:B	Conductor / wire
24VC	+Main circuit-F4:2	+Main circuit-K322:13				+Main circuit/13.7:E	+Main circuit/23.1:B	Conductor / wire
24VA	+Main circuit-KM80:A2	+Main circuit-TR1:0V				+Main circuit/23.4:E	+Main circuit/13.8:D	Conductor / wire
DCN1	+Main circuit-K300:A2	+Main circuit-PS1				+Main circuit/26.2:E	+Main circuit/18.1:C	Conductor / wire
27E	+Main circuit-K323:13	+Main circuit-KM100:53				+Main circuit/22.1:B	+Main circuit/20.7:B	Conductor / wire



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29E	+Main circuit-KM100:73	+Main circuit-KM101:A2				+Main circuit/20.7:B	+Main circuit/22.1:D	Conductor / wire
27	+Main circuit-F16*:1	+Main circuit-KT:15				+Main circuit/21.6:A	+Main circuit/22.7:B	Conductor / wire
29	+Main circuit-F16*:5	+Main circuit-KM101**:A2				+Main circuit/21.6:A	+Main circuit/22.7:D	Conductor / wire
79	+Main circuit-KM101*:A1	+Main circuit-SF2:38				+Main circuit/22.4:D	+Main circuit/34.5:D	Conductor / wire
80	+Main circuit-KM100*:A1	+Main circuit-SF1-SF11:14				+Main circuit/22.5:D	+Main circuit/33.5:D	Conductor / wire
27E	+Main circuit-K321:13	+Main circuit-SF1-SF11:13				+Main circuit/22.3:B	+Main circuit/33.5:C	Conductor / wire
	+Main circuit-Q23:13	+Main circuit-Q24:13				+Main circuit/23.5:A	+Main circuit/24.2:A	Conductor / wire
	+Main circuit-KM4-1:A2	+Main circuit-KM35:A2				+Main circuit/24.1:E	+Main circuit/23.7:E	Conductor / wire
24VE	+Main circuit-Q25:13	+Main circuit-Q29:13				+Main circuit/23.6:A	+Main circuit/24.5:A	Conductor / wire
24VE	+Main circuit-Q25:13	+Main circuit-SF1-SF11:24				+Main circuit/23.6:A	+Main circuit/33.5:D	Conductor / wire
24VD	+Main circuit-Q23:13	+Main circuit-SF21:24				+Main circuit/23.5:A	+Main circuit/34.7:D	Conductor / wire
24VA	+Main circuit-KM2-1:A2	+Main circuit-KW:12				+Main circuit/25.1:E	+Main circuit/24.7:C	Conductor / wire
24VD	+Main circuit-Q22:13	+Main circuit-Q30:13				+Main circuit/25.1:A	+Main circuit/24.3:A	Conductor / wire
24VC	+Main circuit-SF1-SF11:23	+OPT6-F15:1				+Main circuit/33.5:C	+Main circuit/24.7:A	Conductor / wire
DCH1	+Main circuit-DINA_1:13	+Main circuit-K321:13				+Main circuit/31.4:C	+Main circuit/26.6:B	Conductor / wire
210	+Main circuit-K300:10	+Main circuit-SF1:S21				+Main circuit/26.4:A	+Main circuit/33.3:C	Conductor / wire
101	+Main circuit-DINA_1:I1	+Main circuit-S10:12				+Main circuit/31.1:C	+Main circuit/26.4:D	Conductor / wire
101	+Main circuit-S10:12	+Main circuit-SF1:S12				+Main circuit/26.4:D	+Main circuit/33.3:C	Conductor / wire
101	+Main circuit-E-STOP:EI1	+Main circuit-S10:12				+Main circuit/35.2:C	+Main circuit/26.4:D	Conductor / wire
217	+Main circuit-DINA_1:I2	+Main circuit-S10:22				+Main circuit/31.2:C	+Main circuit/26.4:D	Conductor / wire
217	+Main circuit-S10:22	+Main circuit-SF1:S22				+Main circuit/26.4:D	+Main circuit/33.3:C	Conductor / wire
217	+Main circuit-E-STOP:EI2	+Main circuit-S10:22				+Main circuit/35.3:C	+Main circuit/26.4:D	Conductor / wire
205	+Main circuit-K300:9	+Main circuit-SF1:S11				+Main circuit/26.4:A	+Main circuit/33.3:C	Conductor / wire
DCH1D	+Main circuit-K322:14	+Main circuit-SF21:33				+Main circuit/26.6:B	+Main circuit/34.7:D	Conductor / wire
DCH1	+Main circuit-SQ1*:11	+Main circuit-SQ28:11				+Main circuit/27.7:C	+Main circuit/28.2:C	Conductor / wire
3124	+Main circuit-SQ1*:22	+Main circuit-SQ28*:11				+Main circuit/27.5:C	+Main circuit/28.4:C	Conductor / wire
3124	+Main circuit-K310:5	+Main circuit-SQ1*:22				+Main circuit/34.3:B	+Main circuit/27.5:C	Conductor / wire
DCN1	+Main circuit-DINA_1:A2	+Main circuit-SQ1**:E2				+Main circuit/31.2:C	+Main circuit/27.7:C	Conductor / wire
3121	+Main circuit-SF1:24	+Main circuit-SQ1*:21				+Main circuit/33.4:D	+Main circuit/27.5:C	Conductor / wire
3131	+Main circuit-SF1-SF11:34	+Main circuit-SQ1*:31				+Main circuit/33.6:D	+Main circuit/27.5:C	Conductor / wire
3134	+Main circuit-SQ1*:32	+Main circuit-SQ28*:21				+Main circuit/27.5:C	+Main circuit/28.5:C	Conductor / wire
3134	+Main circuit-K311:5	+Main circuit-SQ1*:32				+Main circuit/34.4:B	+Main circuit/27.5:C	Conductor / wire
3123	+Main circuit-DINA_1:I5	+Main circuit-SQ1:22				+Main circuit/31.2:C	+Main circuit/27.2:C	Conductor / wire
102	+Main circuit-DINA_1:14	+Main circuit-SQ1:12				+Main circuit/31.2:C	+Main circuit/27.2:C	Conductor / wire
133	+Main circuit-SQ1*:12	+Main circuit-SQ28*:11				+Main circuit/27.7:C	+Main circuit/28.6:C	Conductor / wire
	+Main circuit-DINA_1:13	+Main circuit-SQ1:11				+Main circuit/31.4:C	+Main circuit/27.2:C	Conductor / wire
	+Main circuit-DINA_1:14	+Main circuit-I/O2-K7:11				+Main circuit/31.4:C	+Main circuit/27.1:B	Conductor / wire
3125	+Main circuit-DINA_1:I15	+Main circuit-SQ28:12				+Main circuit/31.4:C	+Main circuit/28.2:C	Conductor / wire
3135	+Main circuit-DINA_1:I16	+Main circuit-SQ28:22				+Main circuit/31.4:C	+Main circuit/28.3:C	Conductor / wire
3128	+Main circuit-SF2:S12	+Main circuit-SQ28*:12				+Main circuit/34.3:D	+Main circuit/28.4:C	Conductor / wire
3138	+Main circuit-SF2:S22	+Main circuit-SQ28*:22				+Main circuit/34.4:D	+Main circuit/28.5:C	Conductor / wire
DCH1	+Main circuit-K321:11	+Main circuit-SB23:23				+Main circuit/30.3:C	+Main circuit/29.5:B	Conductor / wire
3100	+Main circuit-DINA_2:B11	+Main circuit-SB23:14				+Main circuit/31.6:C	+Main circuit/29.4:B	Conductor / wire
3101	+Main circuit-DINA_2:B12	+Main circuit-SB23:24				+Main circuit/31.6:C	+Main circuit/29.5:B	Conductor / wire
	+Main circuit-K310:A2	+Main circuit-K311:A2				+Main circuit/29.6:E	+Main circuit/29.7:E	Conductor / wire
3002	+Main circuit-K310:11	+Main circuit-SF1-SF11:52				+Main circuit/30.6:C	+Main circuit/33.6:D	Conductor / wire
3012	+Main circuit-KM35*:22	+Main circuit-SF1:S34				+Main circuit/30.5:D	+Main circuit/33.3:D	Conductor / wire
3022	+Main circuit-KM2-1*:61	+Main circuit-SF21:52				+Main circuit/30.8:C	+Main circuit/34.8:D	Conductor / wire
3031	+Main circuit-KM12*:22	+Main circuit-SF2:S34				+Main circuit/30.8:E	+Main circuit/34.3:D	Conductor / wire
3031	+Main circuit-DINA_3-B13:B14	+Main circuit-KM12:22				+Main circuit/32.3:C	+Main circuit/30.4:E	Conductor / wire
DCH1	+Main circuit-DINA_1:A1	+Main circuit-KM2-1:61				+Main circuit/31.1:C	+Main circuit/30.4:C	Conductor / wire
DCH1	+Main circuit-DINA_2-B13:1	+Main circuit-DINA_3:P1				+Main circuit/31.6:C	+Main circuit/32.2:C	Conductor / wire
DCN1	+Main circuit-K323:A2	+Main circuit-SF1:A2				+Main circuit/31.8:E	+Main circuit/33.2:C	Conductor / wire
DCH1	+Main circuit-DINA_3:P1	+Main circuit-SF1:A1				+Main circuit/32.2:C	+Main circuit/33.2:C	Conductor / wire
3121	+Main circuit-SF1:23	+Main circuit-SF2:S11				+Main circuit/33.4:C	+Main circuit/34.3:D	Conductor / wire
3122	+Main circuit-K310:9	+Main circuit-SF1:24				+Main circuit/34.3:B	+Main circuit/33.4:D	Conductor / wire
3131	+Main circuit-SF1-SF11:33	+Main circuit-SF2:S21				+Main circuit/33.6:C	+Main circuit/34.4:D	Conductor / wire



Connection list : 29E - 3131

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.I
		Total	169

Connection list

(BF)F27_001

connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
3132	+Main circuit-K311:9	+Main circuit-SF1-SF11:34				+Main circuit/34.4:B	+Main circuit/33.6:D	Conductor / wire
DCH1	+Main circuit-SF1:13	+Main circuit-SF2:A1				+Main circuit/33.4:C	+Main circuit/34.3:D	Conductor / wire
DCN1	+Main circuit-SF1:A2	+Main circuit-SF2:A2				+Main circuit/33.2:C	+Main circuit/34.3:D	Conductor / wire
27E	+Main circuit-SF1-SF11:13	+Main circuit-SF2:37				+Main circuit/33.5:C	+Main circuit/34.5:D	Conductor / wire
DCH1	+Main circuit-E-STOP:EI3	+Main circuit-SF2:23				+Main circuit/35.3:C	+Main circuit/34.4:D	Conductor / wire
DCN1	+Main circuit-E-STOP:COM	+Main circuit-SF2:A2				+Main circuit/35.3:D	+Main circuit/34.3:D	Conductor / wire
DCH1D	+Main circuit-SF2:24	+Main circuit-SF21:33				+Main circuit/34.4:D	+Main circuit/34.7:D	Conductor / wire
132	+Main circuit-I/O1-K6*:13	+Main circuit-SF21:34				+Main circuit/36.4:C	+Main circuit/34.7:D	Conductor / wire
DCH1	+Main circuit-E-STOP:O1-1	+Main circuit-K321:13				+Main circuit/35.4:C	+Main circuit/36.2:B	Conductor / wire
DCN1	+Main circuit-E-STOP:COM	+Main circuit-KM30:A2				+Main circuit/35.3:D	+Main circuit/36.2:E	Conductor / wire
132	+Main circuit-E-STOP-KA202:O1-2	+Main circuit-I/O1-K6*:13				+Main circuit/35.4:D	+Main circuit/36.7:C	Conductor / wire
DCH1	+Main circuit-I/O2-K1*:13	+Main circuit-I/O2-K5:13				+Main circuit/36.7:B	+Main circuit/37.2:C	Conductor / wire
DCH1	+Main circuit-I/O2-K1*:13	+Main circuit-K69:13				+Main circuit/36.7:B	+Main circuit/37.3:C	Conductor / wire
DCH1D	+Main circuit-I/O2-K1*:13	+Main circuit-I/O2-K1*:13				+Main circuit/36.5:B	+Main circuit/36.5:B	Conductor / wire
DCH1D	+Main circuit-I/O2-K5*:13	+Main circuit-I/O2-K5*:13				+Main circuit/37.6:C	+Main circuit/37.6:C	Conductor / wire
DCH1D	+Main circuit-I/O2-K5*:13	+Main circuit-K69*:13				+Main circuit/37.6:C	+Main circuit/37.7:C	Conductor / wire
DCH1D	+Main circuit-I/O2-K5*:13	+Main circuit-K69*:13				+Main circuit/37.6:C	+Main circuit/37.7:C	Conductor / wire
DCH1D	+Main circuit-K69*:13	+Main circuit-K69*:13				+Main circuit/37.7:C	+Main circuit/37.7:C	Conductor / wire
DCH1	+Main circuit-I/O2-K5:13	+Main circuit-KM101:21				+Main circuit/37.2:C	+Main circuit/38.1:A	Conductor / wire
DCH1	+Main circuit-K69:13	+Main circuit-KM101:21				+Main circuit/37.3:C	+Main circuit/38.1:A	Conductor / wire
	+Main circuit-KM100:A2	+Main circuit-KM101:A2				+Main circuit/22.3:D	+Main circuit/22.1:D	Conductor / wire
	+Main circuit-KM100*:A2	+Main circuit-KM101*:A2				+Main circuit/22.5:D	+Main circuit/22.4:D	Conductor / wire
DCN1	+Main circuit-K300:A2	+Main circuit-SQ1:E2				+Main circuit/26.2:E	+Main circuit/27.1:C	Conductor / wire
	+Main circuit-KM80:13	+Main circuit-KM101:53				+Main circuit/39.1:B	+Main circuit/38.2:A	Conductor / wire
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.5:E	+Main circuit/40.4:E	Internal
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.3:D	+Main circuit/40.3:E	Internal
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.4:D	+Main circuit/40.4:E	Internal
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.5:D	+Main circuit/40.5:E	Internal
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.3:E	+Main circuit/40.3:E	Internal
	+Main circuit-EH13	+Main circuit-EH13				+Main circuit/40.3:E	+Main circuit/40.4:E	Internal
156	+Main circuit-SA6:11	+Main circuit-SQ60:12				+Main circuit/40.1:B	+Main circuit/40.1:A	Conductor / wire
	+Main circuit-EH13:C	+Main circuit-YV2:x2				+Main circuit/40.3:E	+Main circuit/40.6:E	Conductor / wire
	+Main circuit-YV1:x2	+Main circuit-YV2:x2				+Main circuit/40.6:E	+Main circuit/40.6:E	Conductor / wire
335	+Main circuit-EH13:1	+Main circuit-I/O2-K35:14				+Main circuit/40.3:D	+Main circuit/40.3:B	Conductor / wire
342	+Main circuit-I/O2-K42:14	+Main circuit-YV2:x1				+Main circuit/40.6:B	+Main circuit/40.6:E	Conductor / wire
	+Main circuit-I/O2-K42:11	+Main circuit-I/O2-K43:11				+Main circuit/40.6:B	+Main circuit/40.6:B	Conductor / wire
343	+Main circuit-I/O2-K43:14	+Main circuit-YV1:x1				+Main circuit/40.6:B	+Main circuit/40.6:E	Conductor / wire
DCH1	+Main circuit-I/O2-K34:11	+Main circuit-SQ60:11				+Main circuit/40.2:B	+Main circuit/40.1:A	Conductor / wire
	+Main circuit-I/O2-K34:14	+Main circuit-SA6:12				+Main circuit/40.2:B	+Main circuit/40.1:B	Conductor / wire
DCH1E	+Main circuit-I/O2-K43:11	+Main circuit-I/O2-K44:11				+Main circuit/40.6:B	+Main circuit/40.7:B	Conductor / wire
	+Main circuit-I/O2-K44:11	+Main circuit-I/O2-K45:11				+Main circuit/40.7:B	+Main circuit/40.8:B	Conductor / wire
344	+Main circuit-I/O2-K44:14	+Main circuit-YV4:x1				+Main circuit/40.7:B	+Main circuit/40.7:E	Conductor / wire
DCN1	+Main circuit-YV1:x2	+Main circuit-YV4:x2				+Main circuit/40.6:E	+Main circuit/40.7:E	Conductor / wire
345	+Main circuit-I/O2-K45:14	+Main circuit-YV3:x1				+Main circuit/40.8:B	+Main circuit/40.8:E	Conductor / wire
DCN1	+Main circuit-YV3:x2	+Main circuit-YV4:x2				+Main circuit/40.8:E	+Main circuit/40.7:E	Conductor / wire
DCH1	+Main circuit-I/O2-K35:11	+Main circuit-K65:11				+Main circuit/40.3:B	+Main circuit/40.4:B	Conductor / wire
365	+Main circuit-EH13:2	+Main circuit-K65:14				+Main circuit/40.4:D	+Main circuit/40.4:B	Conductor / wire
	+Main circuit-K65:11	+Main circuit-K66:11				+Main circuit/40.4:B	+Main circuit/40.5:B	Conductor / wire
366	+Main circuit-EH13:3	+Main circuit-K66:14				+Main circuit/40.5:D	+Main circuit/40.5:B	Conductor / wire
DCN1	+Main circuit-YV5:x2	+Main circuit-YV14:x2				+Main circuit/41.4:E	+Main circuit/41.4:E	Conductor / wire
	+Main circuit-YV5:x2	+Main circuit-YV6:x2				+Main circuit/41.4:E	+Main circuit/41.5:E	Conductor / wire
DCN1	+Main circuit-YV14:x2	+Main circuit-YV25:x2				+Main circuit/41.4:E	+Main circuit/41.3:E	Conductor / wire
368	+Main circuit-K68:14	+Main circuit-YV14:x1				+Main circuit/41.4:B	+Main circuit/41.4:E	Conductor / wire
	+Main circuit-K68:11	+Main circuit-K70:11				+Main circuit/41.4:B	+Main circuit/41.4:B	Conductor / wire
370	+Main circuit-K70:14	+Main circuit-YV5:x1				+Main circuit/41.4:B	+Main circuit/41.4:E	Conductor / wire
367	+Main circuit-K67:14	+Main circuit-YV25:x1				+Main circuit/41.3:B	+Main circuit/41.3:E	Conductor / wire
DCH1	+Main circuit-K70:11	+Main circuit-K71:11				+Main circuit/41.4:B	+Main circuit/41.5:B	Conductor / wire



Connection list : 3132 - DCH1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.m
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
371	+Main circuit-K71:14	+Main circuit-YV6:x1				+Main circuit/41.5:B	+Main circuit/41.5:E	Conductor / wire
379	+Main circuit-K79:14	+Main circuit-YV9:x1				+Main circuit/41.7:B	+Main circuit/41.7:E	Conductor / wire
	+Main circuit-YV9:x2	+Main circuit-YV11:x2				+Main circuit/41.7:E	+Main circuit/41.7:E	Conductor / wire
DCH1E	+Main circuit-K67:11	+Main circuit-K72:11				+Main circuit/41.3:B	+Main circuit/41.6:B	Conductor / wire
DCH1	+Main circuit-K71:11	+Main circuit-K73:11				+Main circuit/41.5:B	+Main circuit/41.7:B	Conductor / wire
	+Main circuit-K73:11	+Main circuit-K79:11				+Main circuit/41.7:B	+Main circuit/41.7:B	Conductor / wire
373	+Main circuit-K73:14	+Main circuit-YV11:x1				+Main circuit/41.7:B	+Main circuit/41.7:E	Conductor / wire
372	+Main circuit-K72:14	+Main circuit-YV110:x1				+Main circuit/41.6:B	+Main circuit/41.6:E	Conductor / wire
	+Main circuit-YV6:x2	+Main circuit-YV110:x2				+Main circuit/41.5:E	+Main circuit/41.6:E	Conductor / wire
DCN1	+Main circuit-YV11:x2	+Main circuit-YV110:x2				+Main circuit/41.7:E	+Main circuit/41.6:E	Conductor / wire
	+Main circuit-I_O2-K55:11	+Main circuit-I_O2-K56:11				+Main circuit/41.2:B	+Main circuit/41.2:B	Conductor / wire
	+Main circuit-I_O2-K56:11	+Main circuit-K67:11				+Main circuit/41.2:B	+Main circuit/41.3:B	Conductor / wire
355	+Main circuit-I_O2-K55:14	+Main circuit-YV16:x1				+Main circuit/41.2:B	+Main circuit/41.2:E	Conductor / wire
356	+Main circuit-I_O2-K56:14	+Main circuit-YV17:x1				+Main circuit/41.2:B	+Main circuit/41.2:E	Conductor / wire
	+Main circuit-YV16:x2	+Main circuit-YV17:x2				+Main circuit/41.2:E	+Main circuit/41.2:E	Conductor / wire
	+Main circuit-YV17:x2	+Main circuit-YV25:x2				+Main circuit/41.2:E	+Main circuit/41.3:E	Conductor / wire
	+Main circuit-YV26:x2	+Main circuit-YV27:x2				+Main circuit/42.3:E	+Main circuit/42.2:E	Conductor / wire
381	+Main circuit-K81:14	+Main circuit-YV27:x1				+Main circuit/42.2:B	+Main circuit/42.2:E	Conductor / wire
DCH1E	+Main circuit-K81:11	+Main circuit-K82:11				+Main circuit/42.2:B	+Main circuit/42.3:B	Conductor / wire
382	+Main circuit-K82:14	+Main circuit-YV26:x1				+Main circuit/42.3:B	+Main circuit/42.3:E	Conductor / wire
	+Main circuit-K82:11	+Main circuit-K83:11				+Main circuit/42.3:B	+Main circuit/42.4:B	Conductor / wire
DCH1E	+Main circuit-K83:11	+Main circuit-K84:11				+Main circuit/42.4:B	+Main circuit/42.4:B	Conductor / wire
DCH1E	+Main circuit-K84:11	+Main circuit-K87:11				+Main circuit/42.4:B	+Main circuit/42.6:B	Conductor / wire
386	+Main circuit-K86:14	+Main circuit-YV20:x1				+Main circuit/42.5:B	+Main circuit/42.5:E	Conductor / wire
387	+Main circuit-K87:14	+Main circuit-YV28:x1				+Main circuit/42.6:B	+Main circuit/42.6:E	Conductor / wire
DCN1	+Main circuit-YV20:x2	+Main circuit-YV28:x2				+Main circuit/42.5:E	+Main circuit/42.6:E	Conductor / wire
383	+Main circuit-K83:14	+Main circuit-YV18:x1				+Main circuit/42.4:B	+Main circuit/42.4:E	Conductor / wire
	+Main circuit-YV18:x2	+Main circuit-YV26:x2				+Main circuit/42.4:E	+Main circuit/42.3:E	Conductor / wire
384	+Main circuit-K84:14	+Main circuit-YV19:x1				+Main circuit/42.4:B	+Main circuit/42.4:E	Conductor / wire
DCN1	+Main circuit-YV18:x2	+Main circuit-YV19:x2				+Main circuit/42.4:E	+Main circuit/42.4:E	Conductor / wire
	+Main circuit-YV19:x2	+Main circuit-YV20:x2				+Main circuit/42.4:E	+Main circuit/42.5:E	Conductor / wire
	+Main circuit-K80:11	+Main circuit-K81:11				+Main circuit/42.2:B	+Main circuit/42.2:B	Conductor / wire
380	+Main circuit-K80:14	+Main circuit-YV24:x1				+Main circuit/42.2:B	+Main circuit/42.2:E	Conductor / wire
	+Main circuit-YV24:x2	+Main circuit-YV27:x2				+Main circuit/42.2:E	+Main circuit/42.2:E	Conductor / wire
DCN1	+Main circuit-YV31:x2	+Main circuit-YV32:x2				+Main circuit/43.2:E	+Main circuit/43.2:E	Conductor / wire
DCN1	+Main circuit-YV35:x2	+Main circuit-YV36:x2				+Main circuit/43.4:E	+Main circuit/43.5:E	Conductor / wire
DCN1	+Main circuit-YV32:x2	+Main circuit-YV33:x2				+Main circuit/43.2:E	+Main circuit/43.3:E	Conductor / wire
DCN1	+Main circuit-YV33:x2	+Main circuit-YV34:x2				+Main circuit/43.3:E	+Main circuit/43.4:E	Conductor / wire
DCN1	+Main circuit-YV34:x2	+Main circuit-YV35:x2				+Main circuit/43.4:E	+Main circuit/43.4:E	Conductor / wire
407	+Main circuit-K107:14	+Main circuit-YV31:x1				+Main circuit/43.2:B	+Main circuit/43.2:E	Conductor / wire
DCH1	+Main circuit-K107:11	+Main circuit-K108:11				+Main circuit/43.2:B	+Main circuit/43.2:B	Conductor / wire
408	+Main circuit-K108:14	+Main circuit-YV32:x1				+Main circuit/43.2:B	+Main circuit/43.2:E	Conductor / wire
DCH1	+Main circuit-K108:11	+Main circuit-K109:11				+Main circuit/43.2:B	+Main circuit/43.3:B	Conductor / wire
409	+Main circuit-K109:14	+Main circuit-YV33:x1				+Main circuit/43.3:B	+Main circuit/43.3:E	Conductor / wire
DCH1	+Main circuit-K109:11	+Main circuit-K110:11				+Main circuit/43.3:B	+Main circuit/43.4:B	Conductor / wire
410	+Main circuit-K110:14	+Main circuit-YV34:x1				+Main circuit/43.4:B	+Main circuit/43.4:E	Conductor / wire
DCH1	+Main circuit-K110:11	+Main circuit-K111:11				+Main circuit/43.4:B	+Main circuit/43.4:B	Conductor / wire
411	+Main circuit-K111:14	+Main circuit-YV35:x1				+Main circuit/43.4:B	+Main circuit/43.4:E	Conductor / wire
DCH1	+Main circuit-K111:11	+Main circuit-K112:11				+Main circuit/43.4:B	+Main circuit/43.5:B	Conductor / wire
412	+Main circuit-K112:14	+Main circuit-YV36:x1				+Main circuit/43.5:B	+Main circuit/43.5:E	Conductor / wire
334	+Main circuit-S1:C1	+Main circuit-SA6:12				+Main circuit/13.2:D	+Main circuit/40.1:B	Conductor / wire
DCN1	+Main circuit-EH6:x2	+Main circuit-S1:C2				+Main circuit/39.6:E	+Main circuit/13.2:D	Conductor / wire
DCN1	+Main circuit-EH13:C	+Main circuit-S1:C2				+Main circuit/40.3:E	+Main circuit/13.2:D	Conductor / wire
DCH1	+Main circuit-I/O2-K34:11	+Main circuit-LC:5				+Main circuit/40.2:B	+Main circuit/13.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K35:11	+Main circuit-LC:5				+Main circuit/40.3:B	+Main circuit/13.4:B	Conductor / wire
334	+Main circuit-I/O2-K34:14	+Main circuit-LC:6				+Main circuit/40.2:B	+Main circuit/13.4:B	Conductor / wire
DCH1E	+Main circuit-I/O2-K42:11	+Main circuit-K321:14				+Main circuit/40.6:B	+Main circuit/26.6:B	Conductor / wire



Connection list : 371 - DCH1E

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.n
		Total	169

Connection list

(BF)F27_001

connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
DCH1E	+Main circuit-I/O2-K42:11	+Main circuit-SF1:14				+Main circuit/40.6:B	+Main circuit/33.4:D	Conductor / wire
	+Main circuit-EH6:x1	+Main circuit-SQ60:11				+Main circuit/39.6:E	+Main circuit/40.1:A	Conductor / wire
DCN1	+Main circuit-YV3:x2	+Main circuit-YV16:x2				+Main circuit/40.8:E	+Main circuit/41.2:E	Conductor / wire
DCH1	+Main circuit-K66:11	+Main circuit-K79:11				+Main circuit/40.5:B	+Main circuit/41.7:B	Conductor / wire
DCH1E	+Main circuit-I/O2-K45:11	+Main circuit-I_O2-K55:11				+Main circuit/40.8:B	+Main circuit/41.2:B	Conductor / wire
DCN1	+Main circuit-YV9:x2	+Main circuit-YV24:x2				+Main circuit/41.7:E	+Main circuit/42.2:E	Conductor / wire
DCH1E	+Main circuit-K72:11	+Main circuit-K80:11				+Main circuit/41.6:B	+Main circuit/42.2:B	Conductor / wire
DCH1	+Main circuit-K86:11	+Main circuit-K86:11				+Main circuit/42.5:B	+Main circuit/42.5:B	Conductor / wire
DCN1	+Main circuit-YV28:x2	+Main circuit-YV31:x2				+Main circuit/42.6:E	+Main circuit/43.2:E	Conductor / wire
DCH1	+Main circuit-K107:11	+Main circuit-K112:11				+Main circuit/43.2:B	+Main circuit/43.5:B	Conductor / wire
222	+Main circuit-K68:12	+Main circuit-K70*:11				+Main circuit/41.4:B	+Main circuit/41.4:B	Conductor / wire
370	+Main circuit-K70*:14	+Main circuit-YV5:x1				+Main circuit/41.4:B	+Main circuit/41.4:E	Conductor / wire
								Conductor / wire
104	+Main circuit-I/O1:30	+Main circuit-SQ2:12				+Main circuit/44.4:D	+Main circuit/44.4:B	Conductor / wire
	+Main circuit-SQ2:11	+Main circuit-SQ3:11				+Main circuit/44.4:B	+Main circuit/44.4:B	Conductor / wire
105	+Main circuit-I/O1:12	+Main circuit-SQ3:12				+Main circuit/44.4:D	+Main circuit/44.4:B	Conductor / wire
	+Main circuit-SQ3:11	+Main circuit-SQ4:11				+Main circuit/44.4:B	+Main circuit/44.5:B	Conductor / wire
106	+Main circuit-I/O1:31	+Main circuit-SQ4:12				+Main circuit/44.5:D	+Main circuit/44.5:B	Conductor / wire
	+Main circuit-SQ2:23	+Main circuit-SQ4:11				+Main circuit/44.6:B	+Main circuit/44.5:B	Conductor / wire
107	+Main circuit-I/O1:13	+Main circuit-SQ2:24				+Main circuit/44.6:D	+Main circuit/44.6:B	Conductor / wire
DCH1	+Main circuit-SQ2:23	+Main circuit-SQ3:23				+Main circuit/44.6:B	+Main circuit/44.6:B	Conductor / wire
108	+Main circuit-I/O1:32	+Main circuit-SQ3:24				+Main circuit/44.6:D	+Main circuit/44.6:B	Conductor / wire
101	+Main circuit-I/O1:10	+Main circuit-S10:12				+Main circuit/44.2:D	+Main circuit/26.4:D	Conductor / wire
102	+Main circuit-I/O1:29	+Main circuit-SQ1:12				+Main circuit/44.2:D	+Main circuit/27.2:C	Conductor / wire
103	+Main circuit-I/O1:11	+Main circuit-SQ1:42				+Main circuit/44.3:D	+Main circuit/27.2:C	Conductor / wire
102	+Main circuit-I/O1:29	+Main circuit-SQ28**:.12				+Main circuit/44.2:D	+Main circuit/28.6:C	Conductor / wire
DCN1	+Main circuit-I/O1:0V	+Main circuit-YV36:x2				+Main circuit/44.7:D	+Main circuit/43.5:E	Conductor / wire
DCH1	+Main circuit-SQ2:11	+Main circuit-SQ3:23				+Main circuit/44.4:B	+Main circuit/44.6:B	Conductor / wire
								Conductor / wire
	+Main circuit-SP5:COM	+Main circuit-SQ4:23				+Main circuit/45.2:A	+Main circuit/45.2:B	Conductor / wire
	+Main circuit-SP1:COM	+Main circuit-SP5:COM				+Main circuit/45.2:B	+Main circuit/45.2:A	Conductor / wire
514	+Main circuit-SP1:COM	+Main circuit-SP5:NO				+Main circuit/45.2:B	+Main circuit/45.2:A	Conductor / wire
110	+Main circuit-I/O1:33	+Main circuit-SP1:NO				+Main circuit/45.2:D	+Main circuit/45.2:B	Conductor / wire
109	+Main circuit-I/O1:14	+Main circuit-SQ4:24				+Main circuit/45.2:D	+Main circuit/45.2:B	Conductor / wire
112	+Main circuit-I/O1:34	+Main circuit-ML1:5				+Main circuit/45.4:D	+Main circuit/19.7:E	Conductor / wire
113	+Main circuit-I/O1:16	+Main circuit-ML1:6				+Main circuit/45.4:D	+Main circuit/19.8:E	Conductor / wire
DCH1	+Main circuit-SP1:COM	+Main circuit-SQ4:23				+Main circuit/45.2:B	+Main circuit/45.2:B	Conductor / wire
90	+Main circuit-ST1:12	+Main circuit-ST2:11				+Main circuit/46.3:B	+Main circuit/46.3:C	Conductor / wire
DCH1	+Main circuit-Q23:21	+Main circuit-ST1:11				+Main circuit/46.4:B	+Main circuit/46.3:B	Conductor / wire
	+Main circuit-Q23:21	+Main circuit-Q29:21				+Main circuit/46.4:B	+Main circuit/46.5:B	Conductor / wire
DCH1	+Main circuit-Q24:21	+Main circuit-Q29:21				+Main circuit/46.6:B	+Main circuit/46.5:B	Conductor / wire
DCH1	+Main circuit-Q24:21	+Main circuit-Q30:21				+Main circuit/46.6:B	+Main circuit/46.6:B	Conductor / wire
DCH1	+Main circuit-Q25:21	+Main circuit-Q30:21				+Main circuit/46.7:B	+Main circuit/46.6:B	Conductor / wire
	+Main circuit-Q24:22	+Main circuit-Q30:22				+Main circuit/46.6:B	+Main circuit/46.6:B	Conductor / wire
DCH1	+Main circuit-Q25:21	+Main circuit-Q55:21				+Main circuit/46.7:B	+Main circuit/46.7:B	Conductor / wire
	+Main circuit-Q25:22	+Main circuit-Q55:22				+Main circuit/46.7:B	+Main circuit/46.7:B	Conductor / wire
	+Main circuit-CNC-X9:2	+Main circuit-X9:2				+Main circuit/46.2:E	+Main circuit/46.2:D	Conductor / wire
	+Main circuit-CNC-X9:21	+Main circuit-X9:21				+Main circuit/46.2:E	+Main circuit/46.2:D	Conductor / wire
	+Main circuit-CNC-X9:3	+Main circuit-X9:3				+Main circuit/46.3:E	+Main circuit/46.3:D	Conductor / wire
	+Main circuit-CNC-X9:22	+Main circuit-X9:22				+Main circuit/46.4:E	+Main circuit/46.4:D	Conductor / wire
	+Main circuit-CNC-X9:4	+Main circuit-X9:4				+Main circuit/46.4:E	+Main circuit/46.4:D	Conductor / wire
	+Main circuit-CNC-X9:23	+Main circuit-X9:23				+Main circuit/46.5:E	+Main circuit/46.5:D	Conductor / wire
	+Main circuit-CNC-X9:5	+Main circuit-X9:5				+Main circuit/46.6:E	+Main circuit/46.6:D	Conductor / wire
	+Main circuit-CNC-X9:24	+Main circuit-X9:24				+Main circuit/46.6:E	+Main circuit/46.6:D	Conductor / wire
DCH1	+Main circuit-Q55:21	+Main circuit-ST1:11				+Main circuit/46.7:B	+Main circuit/46.3:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.2:D	+Main circuit/46.2:D	Internal
DCH1	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.7:D	+Main circuit/46.7:D	Internal



Connection list : DCH1E - DCH1

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Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.o
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.2:D	+Main circuit/46.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.3:D	+Main circuit/46.3:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.4:D	+Main circuit/46.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.4:D	+Main circuit/46.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.5:D	+Main circuit/46.5:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.6:D	+Main circuit/46.6:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.6:D	+Main circuit/46.6:D	Internal
DCH1	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/46.7:D	+Main circuit/46.7:D	Internal
167	+Main circuit-I/O2:3	+Main circuit-ST2:12				+Main circuit/46.3:D	+Main circuit/46.3:C	Conductor / wire
169	+Main circuit-I/O2:4	+Main circuit-Q23:22				+Main circuit/46.4:D	+Main circuit/46.4:B	Conductor / wire
170	+Main circuit-I/O2:23	+Main circuit-Q29:22				+Main circuit/46.5:D	+Main circuit/46.5:B	Conductor / wire
171	+Main circuit-I/O2:5	+Main circuit-Q24:22				+Main circuit/46.6:D	+Main circuit/46.6:B	Conductor / wire
172	+Main circuit-I/O2:24	+Main circuit-Q25:22				+Main circuit/46.6:D	+Main circuit/46.7:B	Conductor / wire
	+Main circuit-CNC-X9:18	+Main circuit-X9:18				+Main circuit/46.7:E	+Main circuit/46.7:D	Conductor / wire
	+Main circuit-CNC-X9:19	+Main circuit-X9:19				+Main circuit/46.7:E	+Main circuit/46.7:D	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.2:D	+Main circuit/47.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.2:D	+Main circuit/47.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.3:D	+Main circuit/47.3:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.4:D	+Main circuit/47.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.4:D	+Main circuit/47.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.5:D	+Main circuit/47.5:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.6:D	+Main circuit/47.6:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/47.6:D	+Main circuit/47.6:D	Internal
	+Main circuit-CNC-X9:6	+Main circuit-X9:6				+Main circuit/47.2:E	+Main circuit/47.2:D	Conductor / wire
	+Main circuit-CNC-X9:25	+Main circuit-X9:25				+Main circuit/47.2:E	+Main circuit/47.2:D	Conductor / wire
	+Main circuit-CNC-X9:7	+Main circuit-X9:7				+Main circuit/47.3:E	+Main circuit/47.3:D	Conductor / wire
	+Main circuit-CNC-X9:26	+Main circuit-X9:26				+Main circuit/47.4:E	+Main circuit/47.4:D	Conductor / wire
	+Main circuit-CNC-X9:8	+Main circuit-X9:8				+Main circuit/47.4:E	+Main circuit/47.4:D	Conductor / wire
	+Main circuit-CNC-X9:27	+Main circuit-X9:27				+Main circuit/47.5:E	+Main circuit/47.5:D	Conductor / wire
	+Main circuit-CNC-X9:9	+Main circuit-X9:9				+Main circuit/47.6:E	+Main circuit/47.6:D	Conductor / wire
	+Main circuit-CNC-X9:28	+Main circuit-X9:28				+Main circuit/47.6:E	+Main circuit/47.6:D	Conductor / wire
	+Main circuit-CNC-X9:20	+Main circuit-X9:20				+Main circuit/47.7:E	+Main circuit/47.7:D	Conductor / wire
180	+Main circuit-I/O2:28	+Main circuit-SP3:12				+Main circuit/47.6:D	+Main circuit/47.6:B	Conductor / wire
174	+Main circuit-I/O2:25	+Main circuit-SQ6:14				+Main circuit/47.2:D	+Main circuit/47.2:B	Conductor / wire
DCH1	+Main circuit-SQ6:13	+Main circuit-SQ7:13				+Main circuit/47.2:B	+Main circuit/47.3:B	Conductor / wire
175	+Main circuit-I/O2:7	+Main circuit-SQ7:14				+Main circuit/47.3:D	+Main circuit/47.3:B	Conductor / wire
DCH1	+Main circuit-Q62	+Main circuit-SQ7:13				+Main circuit/47.4:B	+Main circuit/47.3:B	Conductor / wire
DCH1	+Main circuit-Q62	+Main circuit-SP3:11				+Main circuit/47.4:B	+Main circuit/47.6:B	Conductor / wire
176	+Main circuit-I/O2:26	+Main circuit-Q62				+Main circuit/47.4:D	+Main circuit/47.4:B	Conductor / wire
177	+Main circuit-I/O2:8	+Main circuit-Q62				+Main circuit/47.4:D	+Main circuit/47.4:B	Conductor / wire
178	+Main circuit-I/O2:27	+Main circuit-Q62				+Main circuit/47.5:D	+Main circuit/47.4:B	Conductor / wire
179	+Main circuit-I/O2:9	+Main circuit-Q62				+Main circuit/47.6:D	+Main circuit/47.4:B	Conductor / wire
DCH1	+Main circuit-SP3:11	+Main circuit-SQ6:13				+Main circuit/47.6:B	+Main circuit/47.2:B	Conductor / wire
125	+Main circuit-I/O2:6	+Main circuit-X54:5				+Main circuit/47.2:D	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-SQ8:13	+Main circuit-SQ9:13				+Main circuit/48.2:B	+Main circuit/48.2:B	Conductor / wire
DCH1	+Main circuit-SQ9:13	+Main circuit-SQ10:1				+Main circuit/48.2:B	+Main circuit/48.3:B	Conductor / wire
DCH1	+Main circuit-SQ10:1	+Main circuit-SQ11:1				+Main circuit/48.3:B	+Main circuit/48.4:B	Conductor / wire
DCH1	+Main circuit-SFP1:13	+Main circuit-SQ11:1				+Main circuit/48.6:B	+Main circuit/48.4:B	Conductor / wire
DCH1	+Main circuit-SFP1:13	+Main circuit-SQ12:13				+Main circuit/48.6:B	+Main circuit/48.6:B	Conductor / wire
DCH1	+Main circuit-SQ8:13	+Main circuit-SQ12:13				+Main circuit/48.2:B	+Main circuit/48.6:B	Conductor / wire
DCN1	+Main circuit-SQ10:2	+Main circuit-SQ11:2				+Main circuit/48.3:B	+Main circuit/48.4:B	Conductor / wire
181	+Main circuit-I/O2:10	+Main circuit-SQ8:14				+Main circuit/48.2:D	+Main circuit/48.2:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.2:D	+Main circuit/48.2:D	Internal
182	+Main circuit-I/O2:29	+Main circuit-SQ9:14				+Main circuit/48.2:D	+Main circuit/48.2:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.2:D	+Main circuit/48.2:D	Internal
183	+Main circuit-I/O2:11	+Main circuit-SQ10:3				+Main circuit/48.3:D	+Main circuit/48.3:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.3:D	+Main circuit/48.3:D	Internal



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Drawing No.	L00-0091-100		
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Editor	Vincent		
		Rev.	100
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		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
184	+Main circuit-I/O2:30	+Main circuit-SQ11:3				+Main circuit/48.4:D	+Main circuit/48.4:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.4:D	+Main circuit/48.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.4:D	+Main circuit/48.4:D	Internal
187	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.5:D	+Main circuit/48.5:D	Internal
	+Main circuit-I/O2:13	+Main circuit-SFP1:14				+Main circuit/48.6:D	+Main circuit/48.6:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.6:D	+Main circuit/48.6:D	Internal
188	+Main circuit-I/O2:32	+Main circuit-SQ12:14				+Main circuit/48.6:D	+Main circuit/48.6:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/48.6:D	+Main circuit/48.6:D	Internal
								Conductor / wire
	+Main circuit-CNC-X2:10	+Main circuit-X2:10				+Main circuit/44.2:E	+Main circuit/44.2:D	Conductor / wire
	+Main circuit-I/O1	+Main circuit-I/O1:10				+Main circuit/44.2:D	+Main circuit/44.2:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:29				+Main circuit/44.2:D	+Main circuit/44.2:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:11				+Main circuit/44.3:D	+Main circuit/44.3:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:30				+Main circuit/44.4:D	+Main circuit/44.4:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:12				+Main circuit/44.4:D	+Main circuit/44.4:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:31				+Main circuit/44.5:D	+Main circuit/44.5:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:13				+Main circuit/44.6:D	+Main circuit/44.6:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:32				+Main circuit/44.6:D	+Main circuit/44.6:D	Internal
DCH1	+Main circuit-I/O1	+Main circuit-I/O1:19				+Main circuit/44.7:D	+Main circuit/44.7:D	Internal
DCH1	+Main circuit-I/O1:18	+Main circuit-I/O1:19				+Main circuit/44.7:D	+Main circuit/44.7:D	Internal
	+Main circuit-CNC-X2:29	+Main circuit-X2:29				+Main circuit/44.2:E	+Main circuit/44.2:D	Conductor / wire
	+Main circuit-CNC-X2:11	+Main circuit-X2:11				+Main circuit/44.3:E	+Main circuit/44.3:D	Conductor / wire
	+Main circuit-CNC-X2:30	+Main circuit-X2:30				+Main circuit/44.4:E	+Main circuit/44.4:D	Conductor / wire
	+Main circuit-CNC-X2:12	+Main circuit-X2:12				+Main circuit/44.4:E	+Main circuit/44.4:D	Conductor / wire
	+Main circuit-CNC-X2:31	+Main circuit-X2:31				+Main circuit/44.5:E	+Main circuit/44.5:D	Conductor / wire
	+Main circuit-CNC-X2:13	+Main circuit-X2:13				+Main circuit/44.6:E	+Main circuit/44.6:D	Conductor / wire
	+Main circuit-CNC-X2:32	+Main circuit-X2:32				+Main circuit/44.6:E	+Main circuit/44.6:D	Conductor / wire
	+Main circuit-CNC-X2:18	+Main circuit-X2:18				+Main circuit/44.7:E	+Main circuit/44.7:D	Conductor / wire
	+Main circuit-CNC-X2:19	+Main circuit-X2:19				+Main circuit/44.7:E	+Main circuit/44.7:D	Conductor / wire
	+Main circuit-CNC-X2:14	+Main circuit-X2:14				+Main circuit/45.2:E	+Main circuit/45.2:D	Conductor / wire
	+Main circuit-CNC-X2:33	+Main circuit-X2:33				+Main circuit/45.2:E	+Main circuit/45.2:D	Conductor / wire
	+Main circuit-CNC-X2:15	+Main circuit-X2:15				+Main circuit/45.3:E	+Main circuit/45.3:D	Conductor / wire
	+Main circuit-CNC-X2:34	+Main circuit-X2:34				+Main circuit/45.4:E	+Main circuit/45.4:D	Conductor / wire
	+Main circuit-CNC-X2:16	+Main circuit-X2:16				+Main circuit/45.4:E	+Main circuit/45.4:D	Conductor / wire
	+Main circuit-CNC-X2:35	+Main circuit-X2:35				+Main circuit/45.5:E	+Main circuit/45.5:D	Conductor / wire
	+Main circuit-CNC-X2:17	+Main circuit-X2:17				+Main circuit/45.6:E	+Main circuit/45.6:D	Conductor / wire
+Main circuit-CNC-X2:36	+Main circuit-X2:36				+Main circuit/45.6:E	+Main circuit/45.6:D	Conductor / wire	
+Main circuit-CNC-X2:37	+Main circuit-X2:37				+Main circuit/45.7:E	+Main circuit/45.7:D	Conductor / wire	
	+Main circuit-I/O1	+Main circuit-I/O1:14				+Main circuit/45.2:D	+Main circuit/45.2:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:33				+Main circuit/45.2:D	+Main circuit/45.2:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:15				+Main circuit/45.3:D	+Main circuit/45.3:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:34				+Main circuit/45.4:D	+Main circuit/45.4:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:16				+Main circuit/45.4:D	+Main circuit/45.4:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:35				+Main circuit/45.5:D	+Main circuit/45.5:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:17				+Main circuit/45.6:D	+Main circuit/45.6:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1:36				+Main circuit/45.6:D	+Main circuit/45.6:D	Internal
	+Main circuit-CNC-X9:37	+Main circuit-X9:1				+Main circuit/48.7:E	+Main circuit/48.7:D	Conductor / wire
	+Main circuit-CNC-X9:14	+Main circuit-X9:14				+Main circuit/48.2:E	+Main circuit/48.2:D	Conductor / wire
	+Main circuit-CNC-X9:33	+Main circuit-X9:33				+Main circuit/48.2:E	+Main circuit/48.2:D	Conductor / wire
	+Main circuit-CNC-X9:15	+Main circuit-X9:15				+Main circuit/48.3:E	+Main circuit/48.3:D	Conductor / wire
	+Main circuit-CNC-X9:34	+Main circuit-X9:34				+Main circuit/48.4:E	+Main circuit/48.4:D	Conductor / wire
	+Main circuit-CNC-X9:16	+Main circuit-X9:16				+Main circuit/48.4:E	+Main circuit/48.4:D	Conductor / wire
	+Main circuit-CNC-X9:35	+Main circuit-X9:35				+Main circuit/48.5:E	+Main circuit/48.5:D	Conductor / wire
	+Main circuit-CNC-X9:17	+Main circuit-X9:17				+Main circuit/48.6:E	+Main circuit/48.6:D	Conductor / wire
	+Main circuit-CNC-X9:36	+Main circuit-X9:36				+Main circuit/48.6:E	+Main circuit/48.6:D	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.2:D	+Main circuit/49.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.2:D	+Main circuit/49.2:D	Internal



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Drawing No.	L00-0091-100		
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Editor	Vincent		
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		Page	R2.q
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.3:D	+Main circuit/49.3:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.4:D	+Main circuit/49.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.4:D	+Main circuit/49.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.5:D	+Main circuit/49.5:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.6:D	+Main circuit/49.6:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/49.6:D	+Main circuit/49.6:D	Internal
	+Main circuit-CNC-X9:1	+Main circuit-X9:1				+Main circuit/49.7:E	+Main circuit/49.7:D	Conductor / wire
	+Main circuit-CNC-X9:14	+Main circuit-X9:14				+Main circuit/49.2:E	+Main circuit/49.2:D	Conductor / wire
	+Main circuit-CNC-X9:33	+Main circuit-X9:33				+Main circuit/49.2:E	+Main circuit/49.2:D	Conductor / wire
	+Main circuit-CNC-X9:15	+Main circuit-X9:15				+Main circuit/49.3:E	+Main circuit/49.3:D	Conductor / wire
	+Main circuit-CNC-X9:34	+Main circuit-X9:34				+Main circuit/49.4:E	+Main circuit/49.4:D	Conductor / wire
	+Main circuit-CNC-X9:16	+Main circuit-X9:16				+Main circuit/49.4:E	+Main circuit/49.4:D	Conductor / wire
	+Main circuit-CNC-X9:35	+Main circuit-X9:35				+Main circuit/49.5:E	+Main circuit/49.5:D	Conductor / wire
	+Main circuit-CNC-X9:17	+Main circuit-X9:17				+Main circuit/49.6:E	+Main circuit/49.6:D	Conductor / wire
	+Main circuit-CNC-X9:36	+Main circuit-X9:36				+Main circuit/49.6:E	+Main circuit/49.6:D	Conductor / wire
								Conductor / wire
189	+Main circuit-I/O2:14	+Main circuit-SL2:14				+Main circuit/49.2:D	+Main circuit/49.2:B	Conductor / wire
DCH1	+Main circuit-SF2:13	+Main circuit-SL2:13				+Main circuit/49.4:B	+Main circuit/49.2:B	Conductor / wire
192	+Main circuit-I/O2:34	+Main circuit-SF2:14				+Main circuit/49.4:D	+Main circuit/49.4:B	Conductor / wire
	+Main circuit-SF2:13	+Main circuit-SF3:13				+Main circuit/49.4:B	+Main circuit/49.4:B	Conductor / wire
193	+Main circuit-I/O2:16	+Main circuit-SF3:14				+Main circuit/49.4:D	+Main circuit/49.4:B	Conductor / wire
DCH1	+Main circuit-SF3:13	+Main circuit-SQ13:1				+Main circuit/49.4:B	+Main circuit/49.5:B	Conductor / wire
194	+Main circuit-I/O2:35	+Main circuit-SQ13:3				+Main circuit/49.5:D	+Main circuit/49.5:B	Conductor / wire
DCH1	+Main circuit-SQ13:1	+Main circuit-SQ14:1				+Main circuit/49.5:B	+Main circuit/49.6:B	Conductor / wire
195	+Main circuit-I/O2:17	+Main circuit-SQ14:3				+Main circuit/49.6:D	+Main circuit/49.6:B	Conductor / wire
	+Main circuit-SQ13:2	+Main circuit-SQ14:2				+Main circuit/49.5:B	+Main circuit/49.6:B	Conductor / wire
DCH1	+Main circuit-SL2:13	+Main circuit-SQ14:1				+Main circuit/49.2:B	+Main circuit/49.6:B	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.2:D	+Main circuit/50.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.2:D	+Main circuit/50.2:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.3:D	+Main circuit/50.3:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.4:D	+Main circuit/50.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.4:D	+Main circuit/50.4:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.5:D	+Main circuit/50.5:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.6:D	+Main circuit/50.6:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/50.6:D	+Main circuit/50.6:D	Internal
	14	+Main circuit-X7:14				+Main circuit/50.2:E	+Main circuit/50.2:D	Conductor / wire
	33	+Main circuit-X7:33				+Main circuit/50.2:E	+Main circuit/50.2:D	Conductor / wire
	15	+Main circuit-X7:15				+Main circuit/50.3:E	+Main circuit/50.3:D	Conductor / wire
	34	+Main circuit-X7:34				+Main circuit/50.4:E	+Main circuit/50.4:D	Conductor / wire
	16	+Main circuit-X7:16				+Main circuit/50.4:E	+Main circuit/50.4:D	Conductor / wire
	35	+Main circuit-X7:35				+Main circuit/50.5:E	+Main circuit/50.5:D	Conductor / wire
	17	+Main circuit-X7:17				+Main circuit/50.6:E	+Main circuit/50.6:D	Conductor / wire
	36	+Main circuit-X7:36				+Main circuit/50.6:E	+Main circuit/50.6:D	Conductor / wire
	37	+Main circuit-X7:37				+Main circuit/50.7:E	+Main circuit/50.7:D	Conductor / wire
DCN1	+Main circuit-SQ13:2	+Main circuit-SQ14:2				+Main circuit/49.5:B	+Main circuit/49.6:B	Conductor / wire
DCH1	+Main circuit-SB12:13	+Main circuit-SQ24:1				+Main circuit/51.7:B	+Main circuit/51.7:B	Conductor / wire
DCH1	+Main circuit-SQ29:1	+OPT7-Q62				+Main circuit/51.2:B	+Main circuit/51.3:B	Conductor / wire
229	+Main circuit-RIO1-X6:1	+Main circuit-SQ29:3				+Main circuit/51.2:E	+Main circuit/51.2:B	Conductor / wire
DCH1	+Main circuit-SQ24:1	+Main circuit-SQ29:1				+Main circuit/51.7:B	+Main circuit/51.2:B	Conductor / wire
230	+Main circuit-RIO1-X6:2	+OPT7-Q62				+Main circuit/51.3:E	+Main circuit/51.3:B	Conductor / wire
235	+Main circuit-RIO1-X6:7	+Main circuit-SB12:14				+Main circuit/51.7:E	+Main circuit/51.7:B	Conductor / wire
236	+Main circuit-RIO1-X6:8	+Main circuit-SQ24:3				+Main circuit/51.7:E	+Main circuit/51.7:B	Conductor / wire
231	+Main circuit-RIO1-X6:3	+OPT7-Q62				+Main circuit/51.3:E	+Main circuit/51.3:B	Conductor / wire
232	+Main circuit-RIO1-X6:4	+OPT7-Q62				+Main circuit/51.4:E	+Main circuit/51.3:B	Conductor / wire
233	+Main circuit-RIO1-X6:5	+OPT7-Q62				+Main circuit/51.5:E	+Main circuit/51.3:B	Conductor / wire
DCH1	+Main circuit-SQ25:1	+Main circuit-SQ26:23				+Main circuit/52.2:B	+Main circuit/52.3:B	Conductor / wire
DCH1	+Main circuit-SQ26:23	+Main circuit-SQ27:23				+Main circuit/52.3:B	+Main circuit/52.3:B	Conductor / wire



Connection list : - DCH1

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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
237	+Main circuit-RIO1-X6:9	+Main circuit-SQ25:3				+Main circuit/52.2:E	+Main circuit/52.2:B	Conductor / wire
239	+Main circuit-RIO1-X6:11	+Main circuit-SQ27:24				+Main circuit/52.3:E	+Main circuit/52.3:B	Conductor / wire
238	+Main circuit-RIO1-X6:10	+Main circuit-SQ26:24				+Main circuit/52.3:E	+Main circuit/52.3:B	Conductor / wire
DCH1	+Main circuit-SQ25:1	+Main circuit-SQ27:23				+Main circuit/52.2:B	+Main circuit/52.3:B	Conductor / wire
DCN1	+Main circuit-SQ25:2	+Main circuit-SQ25:2				+Main circuit/52.2:B	+Main circuit/52.2:B	Conductor / wire
	+Main circuit-SQ39:23	+Main circuit-SQ40:23				+Main circuit/53.7:B	+Main circuit/53.7:B	Conductor / wire
	+Main circuit-SQ38:13	+Main circuit-SQ39:23				+Main circuit/53.6:B	+Main circuit/53.7:B	Conductor / wire
250	+Main circuit-RIO1-X7:10	+Main circuit-SQ38:14				+Main circuit/53.6:E	+Main circuit/53.6:B	Conductor / wire
251	+Main circuit-RIO1-X7:11	+Main circuit-SQ39:24				+Main circuit/53.7:E	+Main circuit/53.7:B	Conductor / wire
252	+Main circuit-RIO1-X7:12	+Main circuit-SQ40:24				+Main circuit/53.7:E	+Main circuit/53.7:B	Conductor / wire
DCH1	+Main circuit-SQ38:13	+Main circuit-SQ40:23				+Main circuit/53.6:B	+Main circuit/53.7:B	Conductor / wire
259	+Main circuit-RIO2-X3:7	+Main circuit-SF4:14				+Main circuit/54.7:E	+Main circuit/54.7:B	Conductor / wire
260	+Main circuit-RIO2-X3:8	+Main circuit-SF5:14				+Main circuit/54.7:E	+Main circuit/54.7:B	Conductor / wire
DCH1	+Main circuit-SF4:13	+Main circuit-SF5:13				+Main circuit/54.7:B	+Main circuit/54.7:B	Conductor / wire
261	+Main circuit-RIO2-X3:9	+Main circuit-SF6:14				+Main circuit/55.2:E	+Main circuit/55.2:B	Conductor / wire
262	+Main circuit-RIO2-X3:10	+Main circuit-SQ45:14				+Main circuit/55.3:E	+Main circuit/55.3:B	Conductor / wire
DCH1	+Main circuit-SF6:13	+Main circuit-SQ45:13				+Main circuit/55.2:B	+Main circuit/55.3:B	Conductor / wire
	+Main circuit-I/O1-K1:A2	+Main circuit-I/O1-K2:A2				+Main circuit/60.2:E	+Main circuit/60.2:E	Direct connection
	+Main circuit-I/O1-K2:A2	+Main circuit-I/O1-K3:A2				+Main circuit/60.2:E	+Main circuit/60.3:E	Direct connection
	+Main circuit-I/O1-K3:A2	+Main circuit-I/O1-K4:A2				+Main circuit/60.3:E	+Main circuit/60.4:E	Direct connection
	+Main circuit-I/O1-K4:A2	+Main circuit-I/O1-K5:A2				+Main circuit/60.4:E	+Main circuit/60.4:E	Direct connection
	+Main circuit-I/O1-K5:A2	+Main circuit-I/O1-K6:A2				+Main circuit/60.4:E	+Main circuit/60.5:E	Direct connection
	+Main circuit-I/O1-K6:A2	+Main circuit-I/O1-K7:A2				+Main circuit/60.5:E	+Main circuit/60.6:E	Direct connection
	+Main circuit-I/O1-K7:A2	+Main circuit-I/O1-K8:A2				+Main circuit/60.6:E	+Main circuit/60.6:E	Direct connection
	+Main circuit-I/O1-K8:A2	+Main circuit-I/O1-OV				+Main circuit/60.6:E	+Main circuit/60.8:E	Direct connection
	+Main circuit-I/O1	+Main circuit-I/O1-K1:A1				+Main circuit/60.2:D	+Main circuit/60.2:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K2:A1				+Main circuit/60.2:D	+Main circuit/60.2:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K3:A1				+Main circuit/60.3:D	+Main circuit/60.3:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K4:A1				+Main circuit/60.4:D	+Main circuit/60.4:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K5:A1				+Main circuit/60.4:D	+Main circuit/60.4:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K6:A1				+Main circuit/60.5:D	+Main circuit/60.5:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K7:A1				+Main circuit/60.6:D	+Main circuit/60.6:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-K8:A1				+Main circuit/60.6:D	+Main circuit/60.6:E	Internal
	+Main circuit-I/O1	+Main circuit-I/O1				+Main circuit/60.7:D	+Main circuit/60.7:D	Internal
	+Main circuit-I/O1	+Main circuit-I/O1-24V				+Main circuit/60.7:D	+Main circuit/60.8:D	Internal
	+Main circuit-CNC-X2:2	+Main circuit-X2:2				+Main circuit/60.2:B	+Main circuit/60.2:C	Conductor / wire
	+Main circuit-CNC-X2:21	+Main circuit-X2:21				+Main circuit/60.2:B	+Main circuit/60.2:C	Conductor / wire
	+Main circuit-CNC-X2:3	+Main circuit-X2:3				+Main circuit/60.3:B	+Main circuit/60.3:C	Conductor / wire
	+Main circuit-CNC-X2:22	+Main circuit-X2:22				+Main circuit/60.4:B	+Main circuit/60.4:C	Conductor / wire
	+Main circuit-CNC-X2:4	+Main circuit-X2:4				+Main circuit/60.4:B	+Main circuit/60.4:C	Conductor / wire
	+Main circuit-CNC-X2:23	+Main circuit-X2:23				+Main circuit/60.5:B	+Main circuit/60.5:C	Conductor / wire
	+Main circuit-CNC-X2:5	+Main circuit-X2:5				+Main circuit/60.6:B	+Main circuit/60.6:C	Conductor / wire
	+Main circuit-CNC-X2:24	+Main circuit-X2:24				+Main circuit/60.6:B	+Main circuit/60.6:C	Conductor / wire
	+Main circuit-CNC-X2:1	+Main circuit-X2:1				+Main circuit/60.7:B	+Main circuit/60.7:C	Conductor / wire
	+Main circuit-CNC-X2:20	+Main circuit-X2:20				+Main circuit/60.7:B	+Main circuit/60.7:C	Conductor / wire
	+Main circuit-I/O2-K33:A2	+Main circuit-I/O2-K34:A2				+Main circuit/61.2:E	+Main circuit/61.2:E	Direct connection
	+Main circuit-I/O2-K34:A2	+Main circuit-I/O2-K35:A2				+Main circuit/61.2:E	+Main circuit/61.3:E	Direct connection
	+Main circuit-I/O2-K35:A2	+Main circuit-I/O2-K36:A2				+Main circuit/61.3:E	+Main circuit/61.4:E	Direct connection
	+Main circuit-I/O2-K36:A2	+Main circuit-I/O2-K37:A2				+Main circuit/61.4:E	+Main circuit/61.4:E	Direct connection
	+Main circuit-I/O2-K37:A2	+Main circuit-I/O2-K38:A2				+Main circuit/61.4:E	+Main circuit/61.5:E	Direct connection
	+Main circuit-I/O2-K38:A2	+Main circuit-I/O2-K39:A2				+Main circuit/61.5:E	+Main circuit/61.6:E	Direct connection
	+Main circuit-I/O2-K39:A2	+Main circuit-I/O2-K40:A2				+Main circuit/61.6:E	+Main circuit/61.6:E	Direct connection
	+Main circuit-I/O2-K40:A2	+Main circuit-I/O2-OV				+Main circuit/61.6:E	+Main circuit/61.8:E	Direct connection
	+Main circuit-I/O2	+Main circuit-I/O2-K33:A1				+Main circuit/61.2:D	+Main circuit/61.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K34:A1				+Main circuit/61.2:D	+Main circuit/61.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K35:A1				+Main circuit/61.3:D	+Main circuit/61.3:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K36:A1				+Main circuit/61.4:D	+Main circuit/61.4:E	Internal



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Drawing No.	L00-0091-100		
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Editor	Vincent		
		Rev.	100
		Page	R2.s
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-I/O2	+Main circuit-I/O2-K37:A1				+Main circuit/61.4:D	+Main circuit/61.4:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K38:A1				+Main circuit/61.5:D	+Main circuit/61.5:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K39:A1				+Main circuit/61.6:D	+Main circuit/61.6:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K40:A1				+Main circuit/61.6:D	+Main circuit/61.6:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/61.7:D	+Main circuit/61.7:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-24V				+Main circuit/61.7:D	+Main circuit/61.8:D	Internal
	+Main circuit-CNC-X7:2	+Main circuit-X7:2				+Main circuit/61.2:B	+Main circuit/61.2:C	Conductor / wire
	+Main circuit-CNC-X7:21	+Main circuit-X7:21				+Main circuit/61.2:B	+Main circuit/61.2:C	Conductor / wire
	+Main circuit-CNC-X7:3	+Main circuit-X7:3				+Main circuit/61.3:B	+Main circuit/61.3:C	Conductor / wire
	+Main circuit-CNC-X7:22	+Main circuit-X7:22				+Main circuit/61.4:B	+Main circuit/61.4:C	Conductor / wire
	+Main circuit-CNC-X7:4	+Main circuit-X7:4				+Main circuit/61.4:B	+Main circuit/61.4:C	Conductor / wire
	+Main circuit-CNC-X7:23	+Main circuit-X7:23				+Main circuit/61.5:B	+Main circuit/61.5:C	Conductor / wire
	+Main circuit-CNC-X7:5	+Main circuit-X7:5				+Main circuit/61.6:B	+Main circuit/61.6:C	Conductor / wire
	+Main circuit-CNC-X7:24	+Main circuit-X7:24				+Main circuit/61.6:B	+Main circuit/61.6:C	Conductor / wire
	+Main circuit-I/O1-OV	+Main circuit-I/O2-OV				+Main circuit/60.8:E	+Main circuit/61.8:E	Conductor / wire
	+Main circuit-I/O1-24V	+Main circuit-I/O2-24V				+Main circuit/60.8:D	+Main circuit/61.8:D	Conductor / wire
	+Main circuit-CNC-X7:1	+Main circuit-X7:1				+Main circuit/61.7:B	+Main circuit/61.7:C	Conductor / wire
	+Main circuit-CNC-X7:20	+Main circuit-X7:20				+Main circuit/61.7:B	+Main circuit/61.7:C	Conductor / wire
	+Main circuit-I/O2-K43:A2	+Main circuit-I/O2-K44:A2				+Main circuit/62.3:E	+Main circuit/62.4:E	Direct connection
	+Main circuit-I/O2-K44:A2	+Main circuit-I/O2-K45:A2				+Main circuit/62.4:E	+Main circuit/62.4:E	Direct connection
	+Main circuit-I/O2-K45:A2	+Main circuit-I/O2-K46:A2				+Main circuit/62.4:E	+Main circuit/62.5:E	Direct connection
	+Main circuit-I/O2-K46:A2	+Main circuit-I/O2-K47:A2				+Main circuit/62.5:E	+Main circuit/62.6:E	Direct connection
	+Main circuit-I/O2-K47:A2	+Main circuit-I/O2-K48:A2				+Main circuit/62.6:E	+Main circuit/62.6:E	Direct connection
	+Main circuit-I/O2-K41:A2	+Main circuit-I/O2-K42:A2				+Main circuit/62.2:E	+Main circuit/62.2:E	Direct connection
	+Main circuit-I/O2-K42:A2	+Main circuit-I/O2-K43:A2				+Main circuit/62.2:E	+Main circuit/62.3:E	Direct connection
	+Main circuit-CNC-X7:6	+Main circuit-X7:6				+Main circuit/62.2:B	+Main circuit/62.2:C	Conductor / wire
	+Main circuit-CNC-X7:25	+Main circuit-X7:25				+Main circuit/62.2:B	+Main circuit/62.2:C	Conductor / wire
	+Main circuit-CNC-X7:7	+Main circuit-X7:7				+Main circuit/62.3:B	+Main circuit/62.3:C	Conductor / wire
	+Main circuit-CNC-X7:26	+Main circuit-X7:26				+Main circuit/62.4:B	+Main circuit/62.4:C	Conductor / wire
	+Main circuit-CNC-X7:8	+Main circuit-X7:8				+Main circuit/62.4:B	+Main circuit/62.4:C	Conductor / wire
	+Main circuit-CNC-X7:27	+Main circuit-X7:27				+Main circuit/62.5:B	+Main circuit/62.5:C	Conductor / wire
	+Main circuit-CNC-X7:9	+Main circuit-X7:9				+Main circuit/62.6:B	+Main circuit/62.6:C	Conductor / wire
	+Main circuit-CNC-X7:28	+Main circuit-X7:28				+Main circuit/62.6:B	+Main circuit/62.6:C	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2-K41:A1				+Main circuit/62.2:D	+Main circuit/62.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K42:A1				+Main circuit/62.2:D	+Main circuit/62.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K43:A1				+Main circuit/62.3:D	+Main circuit/62.3:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K44:A1				+Main circuit/62.4:D	+Main circuit/62.4:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K45:A1				+Main circuit/62.4:D	+Main circuit/62.4:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K46:A1				+Main circuit/62.5:D	+Main circuit/62.5:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K47:A1				+Main circuit/62.6:D	+Main circuit/62.6:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K48:A1				+Main circuit/62.6:D	+Main circuit/62.6:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K48:A2				+Main circuit/62.7:D	+Main circuit/62.6:E	Direct connection
	+Main circuit-I/O2	+Main circuit-I/O2				+Main circuit/62.7:D	+Main circuit/62.7:D	Internal
	+Main circuit-I/O2	+Main circuit-I/O2:0V				+Main circuit/62.7:D	+Main circuit/62.8:E	Internal
								Conductor / wire
	+Main circuit-CNC-X7:18	+Main circuit-X7:18				+Main circuit/62.7:B	+Main circuit/62.7:C	Conductor / wire
	+Main circuit-CNC-X7:19	+Main circuit-X7:19				+Main circuit/62.7:B	+Main circuit/62.7:C	Conductor / wire
	+Main circuit-I/O2-K51:A2	+Main circuit-I/O2-K52:A2				+Main circuit/63.3:E	+Main circuit/63.4:E	Direct connection
	+Main circuit-I/O2-K52:A2	+Main circuit-I/O2-K53:A2				+Main circuit/63.4:E	+Main circuit/63.4:E	Direct connection
	+Main circuit-I/O2-K53:A2	+Main circuit-I/O2-K54:A2				+Main circuit/63.4:E	+Main circuit/63.5:E	Direct connection
	+Main circuit-I/O2-K54:A2	+Main circuit-I/O2-K55:A2				+Main circuit/63.5:E	+Main circuit/63.6:E	Direct connection
	+Main circuit-I/O2-K55:A2	+Main circuit-I/O2-K56:A2				+Main circuit/63.6:E	+Main circuit/63.6:E	Direct connection
	+Main circuit-I/O2-K49:A2	+Main circuit-I/O2-K50:A2				+Main circuit/63.2:E	+Main circuit/63.2:E	Direct connection
	+Main circuit-I/O2-K50:A2	+Main circuit-I/O2-K51:A2				+Main circuit/63.2:E	+Main circuit/63.3:E	Direct connection
	+Main circuit-CNC-X7:10	+Main circuit-X7:10				+Main circuit/63.2:B	+Main circuit/63.2:C	Conductor / wire
	+Main circuit-CNC-X7:29	+Main circuit-X7:29				+Main circuit/63.2:B	+Main circuit/63.2:C	Conductor / wire
	+Main circuit-CNC-X7:11	+Main circuit-X7:11				+Main circuit/63.3:B	+Main circuit/63.3:C	Conductor / wire



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Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
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		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-CNC-X7:30	+Main circuit-X7:30				+Main circuit/63.4:B	+Main circuit/63.4:C	Conductor / wire
	+Main circuit-CNC-X7:12	+Main circuit-X7:12				+Main circuit/63.4:B	+Main circuit/63.4:C	Conductor / wire
	+Main circuit-CNC-X7:31	+Main circuit-X7:31				+Main circuit/63.5:B	+Main circuit/63.5:C	Conductor / wire
	+Main circuit-CNC-X7:13	+Main circuit-X7:13				+Main circuit/63.6:B	+Main circuit/63.6:C	Conductor / wire
	+Main circuit-CNC-X7:32	+Main circuit-X7:32				+Main circuit/63.6:B	+Main circuit/63.6:C	Conductor / wire
	+Main circuit-I/O2	+Main circuit-I/O2-K49:A1				+Main circuit/63.2:D	+Main circuit/63.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K50:A1				+Main circuit/63.2:D	+Main circuit/63.2:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K51:A1				+Main circuit/63.3:D	+Main circuit/63.3:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K52:A1				+Main circuit/63.4:D	+Main circuit/63.4:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K53:A1				+Main circuit/63.4:D	+Main circuit/63.4:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K54:A1				+Main circuit/63.5:D	+Main circuit/63.5:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K55:A1				+Main circuit/63.6:D	+Main circuit/63.6:E	Internal
	+Main circuit-I/O2	+Main circuit-I/O2-K56:A1				+Main circuit/63.6:D	+Main circuit/63.6:E	Internal
	+Main circuit-I/O2:0V	+Main circuit-I/O2-K56:A2				+Main circuit/63.8:E	+Main circuit/63.6:E	Direct connection
								Conductor / wire
576	+Main circuit-K76:A1	+Main circuit-RIO1-X5:5				+Main circuit/65.4:E	+Main circuit/65.4:B	Conductor / wire
577	+Main circuit-K77:A1	+Main circuit-RIO1-X5:6				+Main circuit/65.5:E	+Main circuit/65.5:B	Conductor / wire
578	+Main circuit-K78:A1	+Main circuit-RIO1-X5:7				+Main circuit/65.6:E	+Main circuit/65.6:B	Conductor / wire
573	+Main circuit-K73:A1	+Main circuit-RIO1-X5:2				+Main circuit/65.2:E	+Main circuit/65.2:B	Conductor / wire
574	+Main circuit-K74:A1	+Main circuit-RIO1-X5:3				+Main circuit/65.3:E	+Main circuit/65.3:B	Conductor / wire
575	+Main circuit-K75:A1	+Main circuit-RIO1-X5:4				+Main circuit/65.4:E	+Main circuit/65.4:B	Conductor / wire
579	+Main circuit-K79:A1	+Main circuit-RIO1-X5:8				+Main circuit/65.6:E	+Main circuit/65.6:B	Conductor / wire
DCN1	+Main circuit-K76:A2	+Main circuit-K77:A2				+Main circuit/65.4:E	+Main circuit/65.5:E	Conductor / wire
DCN1	+Main circuit-K77:A2	+Main circuit-K78:A2				+Main circuit/65.5:E	+Main circuit/65.6:E	Conductor / wire
DCN1	+Main circuit-K73:A2	+Main circuit-K74:A2				+Main circuit/65.2:E	+Main circuit/65.3:E	Conductor / wire
DCN1	+Main circuit-K74:A2	+Main circuit-K75:A2				+Main circuit/65.3:E	+Main circuit/65.4:E	Conductor / wire
DCN1	+Main circuit-K75:A2	+Main circuit-K76:A2				+Main circuit/65.4:E	+Main circuit/65.4:E	Conductor / wire
DCN1	+Main circuit-K78:A2	+Main circuit-K79:A2				+Main circuit/65.6:E	+Main circuit/65.6:E	Conductor / wire
568	+Main circuit-K68:A1	+Main circuit-RIO1-X4:5				+Main circuit/64.4:E	+Main circuit/64.4:B	Conductor / wire
569	+Main circuit-K69:A1	+Main circuit-RIO1-X4:6				+Main circuit/64.5:E	+Main circuit/64.5:B	Conductor / wire
570	+Main circuit-K70:A1	+Main circuit-RIO1-X4:7				+Main circuit/64.6:E	+Main circuit/64.6:B	Conductor / wire
565	+Main circuit-K65:A1	+Main circuit-RIO1-X4:2				+Main circuit/64.2:E	+Main circuit/64.2:B	Conductor / wire
566	+Main circuit-K66:A1	+Main circuit-RIO1-X4:3				+Main circuit/64.3:E	+Main circuit/64.3:B	Conductor / wire
567	+Main circuit-K67:A1	+Main circuit-RIO1-X4:4				+Main circuit/64.4:E	+Main circuit/64.4:B	Conductor / wire
571	+Main circuit-K71:A1	+Main circuit-RIO1-X4:8				+Main circuit/64.6:E	+Main circuit/64.6:B	Conductor / wire
572	+Main circuit-K72:A1	+Main circuit-RIO1-X4:9				+Main circuit/64.7:E	+Main circuit/64.7:B	Conductor / wire
DCN1	+Main circuit-K72:A2	+Main circuit-RIO1-X4:10				+Main circuit/64.7:E	+Main circuit/64.7:B	Conductor / wire
DCN1	+Main circuit-K68:A2	+Main circuit-K69:A2				+Main circuit/64.4:E	+Main circuit/64.5:E	Conductor / wire
DCN1	+Main circuit-K69:A2	+Main circuit-K70:A2				+Main circuit/64.5:E	+Main circuit/64.6:E	Conductor / wire
DCN1	+Main circuit-K65:A2	+Main circuit-K66:A2				+Main circuit/64.2:E	+Main circuit/64.3:E	Conductor / wire
DCN1	+Main circuit-K66:A2	+Main circuit-K67:A2				+Main circuit/64.3:E	+Main circuit/64.4:E	Conductor / wire
DCN1	+Main circuit-K67:A2	+Main circuit-K68:A2				+Main circuit/64.4:E	+Main circuit/64.4:E	Conductor / wire
DCN1	+Main circuit-K70:A2	+Main circuit-K71:A2				+Main circuit/64.6:E	+Main circuit/64.6:E	Conductor / wire
DCN1	+Main circuit-K71:A2	+Main circuit-K72:A2				+Main circuit/64.6:E	+Main circuit/64.7:E	Conductor / wire
DCN1	+Main circuit-K65:A2	+Main circuit-RIO1-X4:10				+Main circuit/64.2:E	+Main circuit/64.7:B	Conductor / wire
580	+Main circuit-K80:A1	+Main circuit-RIO1-X5:9				+Main circuit/65.7:E	+Main circuit/65.7:B	Conductor / wire
DCN1	+Main circuit-K79:A2	+Main circuit-K80:A2				+Main circuit/65.6:E	+Main circuit/65.7:E	Conductor / wire
DCN1	+Main circuit-K80:A2	+Main circuit-RIO1-X5:10				+Main circuit/65.7:E	+Main circuit/65.7:B	Conductor / wire
DCN1	+Main circuit-K73:A2	+Main circuit-RIO1-X5:10				+Main circuit/65.2:E	+Main circuit/65.7:B	Conductor / wire
584	+Main circuit-K84:A1	+Main circuit-RIO2-X1:5				+Main circuit/66.4:E	+Main circuit/66.4:B	Conductor / wire
585	+Main circuit-K85:A1	+Main circuit-RIO2-X1:6				+Main circuit/66.5:E	+Main circuit/66.5:B	Conductor / wire
DCN1	+Main circuit-K84:A2	+Main circuit-K85:A2				+Main circuit/66.4:E	+Main circuit/66.5:E	Conductor / wire
586	+Main circuit-K86:A1	+Main circuit-RIO2-X1:7				+Main circuit/66.6:E	+Main circuit/66.6:B	Conductor / wire
DCN1	+Main circuit-K85:A2	+Main circuit-K86:A2				+Main circuit/66.5:E	+Main circuit/66.6:E	Conductor / wire
581	+Main circuit-K81:A1	+Main circuit-RIO2-X1:2				+Main circuit/66.2:E	+Main circuit/66.2:B	Conductor / wire
582	+Main circuit-K82:A1	+Main circuit-RIO2-X1:3				+Main circuit/66.3:E	+Main circuit/66.3:B	Conductor / wire
DCN1	+Main circuit-K81:A2	+Main circuit-K82:A2				+Main circuit/66.2:E	+Main circuit/66.3:E	Conductor / wire



Connection list : - DCN1

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.u
		Total	169

Connection list

(BF)F27_001

connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
583	+Main circuit-K83:A1	+Main circuit-RIO2-X1:4				+Main circuit/66.4:E	+Main circuit/66.4:B	Conductor / wire
DCN1	+Main circuit-K82:A2	+Main circuit-K83:A2				+Main circuit/66.3:E	+Main circuit/66.4:E	Conductor / wire
DCN1	+Main circuit-K83:A2	+Main circuit-K84:A2				+Main circuit/66.4:E	+Main circuit/66.4:E	Conductor / wire
587	+Main circuit-K87:A1	+Main circuit-RIO2-X1:8				+Main circuit/66.6:E	+Main circuit/66.6:B	Conductor / wire
DCN1	+Main circuit-K86:A2	+Main circuit-K87:A2				+Main circuit/66.6:E	+Main circuit/66.6:E	Conductor / wire
588	+Main circuit-K88:A1	+Main circuit-RIO2-X1:9				+Main circuit/66.7:E	+Main circuit/66.7:B	Conductor / wire
DCN1	+Main circuit-K87:A2	+Main circuit-K88:A2				+Main circuit/66.6:E	+Main circuit/66.7:E	Conductor / wire
DCN1	+Main circuit-K88:A2	+Main circuit-RIO2-X1:10				+Main circuit/66.7:E	+Main circuit/66.7:B	Conductor / wire
DCN1	+Main circuit-K81:A2	+Main circuit-RIO2-X1:10				+Main circuit/66.2:E	+Main circuit/66.7:B	Conductor / wire
592	+Main circuit-K92:A1	+Main circuit-RIO2-X2:5				+Main circuit/67.4:E	+Main circuit/67.4:B	Conductor / wire
593	+Main circuit-K93:A1	+Main circuit-RIO2-X2:6				+Main circuit/67.5:E	+Main circuit/67.5:B	Conductor / wire
DCN1	+Main circuit-K92:A2	+Main circuit-K93:A2				+Main circuit/67.4:E	+Main circuit/67.5:E	Conductor / wire
594	+Main circuit-K94:A1	+Main circuit-RIO2-X2:7				+Main circuit/67.6:E	+Main circuit/67.6:B	Conductor / wire
DCN1	+Main circuit-K93:A2	+Main circuit-K94:A2				+Main circuit/67.5:E	+Main circuit/67.6:E	Conductor / wire
589	+Main circuit-K89:A1	+Main circuit-RIO2-X2:2				+Main circuit/67.2:E	+Main circuit/67.2:B	Conductor / wire
590	+Main circuit-K90:A1	+Main circuit-RIO2-X2:3				+Main circuit/67.3:E	+Main circuit/67.3:B	Conductor / wire
DCN1	+Main circuit-K89:A2	+Main circuit-K90:A2				+Main circuit/67.2:E	+Main circuit/67.3:E	Conductor / wire
591	+Main circuit-K91:A1	+Main circuit-RIO2-X2:4				+Main circuit/67.4:E	+Main circuit/67.4:B	Conductor / wire
DCN1	+Main circuit-K90:A2	+Main circuit-K91:A2				+Main circuit/67.3:E	+Main circuit/67.4:E	Conductor / wire
DCN1	+Main circuit-K91:A2	+Main circuit-K92:A2				+Main circuit/67.4:E	+Main circuit/67.4:E	Conductor / wire
595	+Main circuit-K95:A1	+Main circuit-RIO2-X2:8				+Main circuit/67.6:E	+Main circuit/67.6:B	Conductor / wire
DCN1	+Main circuit-K94:A2	+Main circuit-K95:A2				+Main circuit/67.6:E	+Main circuit/67.6:E	Conductor / wire
596	+Main circuit-K96:A1	+Main circuit-RIO2-X2:9				+Main circuit/67.7:E	+Main circuit/67.7:B	Conductor / wire
DCN1	+Main circuit-K95:A2	+Main circuit-K96:A2				+Main circuit/67.6:E	+Main circuit/67.7:E	Conductor / wire
DCN1	+Main circuit-K96:A2	+Main circuit-RIO2-X2:10				+Main circuit/67.7:E	+Main circuit/67.7:B	Conductor / wire
DCN1	+Main circuit-K89:A2	+Main circuit-RIO2-X2:10				+Main circuit/67.2:E	+Main circuit/67.7:B	Conductor / wire
600	+Main circuit-K100:A1	+Main circuit-RIO2-X5:5				+Main circuit/68.4:E	+Main circuit/68.4:B	Conductor / wire
601	+Main circuit-K101:A1	+Main circuit-RIO2-X5:6				+Main circuit/68.5:E	+Main circuit/68.5:B	Conductor / wire
DCN1	+Main circuit-K100:A2	+Main circuit-K101:A2				+Main circuit/68.4:E	+Main circuit/68.5:E	Conductor / wire
602	+Main circuit-K102:A1	+Main circuit-RIO2-X5:7				+Main circuit/68.6:E	+Main circuit/68.6:B	Conductor / wire
DCN1	+Main circuit-K101:A2	+Main circuit-K102:A2				+Main circuit/68.5:E	+Main circuit/68.6:E	Conductor / wire
597	+Main circuit-K97:A1	+Main circuit-RIO2-X5:2				+Main circuit/68.2:E	+Main circuit/68.2:B	Conductor / wire
598	+Main circuit-K98:A1	+Main circuit-RIO2-X5:3				+Main circuit/68.3:E	+Main circuit/68.3:B	Conductor / wire
DCN1	+Main circuit-K97:A2	+Main circuit-K98:A2				+Main circuit/68.2:E	+Main circuit/68.3:E	Conductor / wire
599	+Main circuit-K99:A1	+Main circuit-RIO2-X5:4				+Main circuit/68.4:E	+Main circuit/68.4:B	Conductor / wire
DCN1	+Main circuit-K98:A2	+Main circuit-K99:A2				+Main circuit/68.3:E	+Main circuit/68.4:E	Conductor / wire
DCN1	+Main circuit-K99:A2	+Main circuit-K100:A2				+Main circuit/68.4:E	+Main circuit/68.4:E	Conductor / wire
603	+Main circuit-K103:A1	+Main circuit-RIO2-X5:8				+Main circuit/68.6:E	+Main circuit/68.6:B	Conductor / wire
DCN1	+Main circuit-K102:A2	+Main circuit-K103:A2				+Main circuit/68.6:E	+Main circuit/68.6:E	Conductor / wire
604	+Main circuit-K104:A1	+Main circuit-RIO2-X5:9				+Main circuit/68.7:E	+Main circuit/68.7:B	Conductor / wire
DCN1	+Main circuit-K103:A2	+Main circuit-K104:A2				+Main circuit/68.6:E	+Main circuit/68.7:E	Conductor / wire
DCN1	+Main circuit-K104:A2	+Main circuit-RIO2-X5:10				+Main circuit/68.7:E	+Main circuit/68.7:B	Conductor / wire
DCN1	+Main circuit-K97:A2	+Main circuit-RIO2-X5:10				+Main circuit/68.2:E	+Main circuit/68.7:B	Conductor / wire
608	+Main circuit-K108:A1	+Main circuit-RIO2-X6:5				+Main circuit/69.4:E	+Main circuit/69.4:B	Conductor / wire
609	+Main circuit-K109:A1	+Main circuit-RIO2-X6:6				+Main circuit/69.5:E	+Main circuit/69.5:B	Conductor / wire
DCN1	+Main circuit-K108:A2	+Main circuit-K109:A2				+Main circuit/69.4:E	+Main circuit/69.5:E	Conductor / wire
610	+Main circuit-K110:A1	+Main circuit-RIO2-X6:7				+Main circuit/69.6:E	+Main circuit/69.6:B	Conductor / wire
DCN1	+Main circuit-K109:A2	+Main circuit-K110:A2				+Main circuit/69.5:E	+Main circuit/69.6:E	Conductor / wire
605	+Main circuit-K105:A1	+Main circuit-RIO2-X6:2				+Main circuit/69.2:E	+Main circuit/69.2:B	Conductor / wire
606	+Main circuit-K106:A1	+Main circuit-RIO2-X6:3				+Main circuit/69.3:E	+Main circuit/69.3:B	Conductor / wire
DCN1	+Main circuit-K105:A2	+Main circuit-K106:A2				+Main circuit/69.2:E	+Main circuit/69.3:E	Conductor / wire
607	+Main circuit-K107:A1	+Main circuit-RIO2-X6:4				+Main circuit/69.4:E	+Main circuit/69.4:B	Conductor / wire
DCN1	+Main circuit-K106:A2	+Main circuit-K107:A2				+Main circuit/69.3:E	+Main circuit/69.4:E	Conductor / wire
DCN1	+Main circuit-K107:A2	+Main circuit-K108:A2				+Main circuit/69.4:E	+Main circuit/69.4:E	Conductor / wire
611	+Main circuit-K111:A1	+Main circuit-RIO2-X6:8				+Main circuit/69.6:E	+Main circuit/69.6:B	Conductor / wire
DCN1	+Main circuit-K110:A2	+Main circuit-K111:A2				+Main circuit/69.6:E	+Main circuit/69.6:E	Conductor / wire
612	+Main circuit-K112:A1	+Main circuit-RIO2-X6:9				+Main circuit/69.7:E	+Main circuit/69.7:B	Conductor / wire



Connection list : 583 - 612

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.v
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
DCN1	+Main circuit-K111:A2	+Main circuit-K112:A2				+Main circuit/69.6:E	+Main circuit/69.7:E	Conductor / wire
DCN1	+Main circuit-K112:A2	+Main circuit-RIO2-X6:10				+Main circuit/69.7:E	+Main circuit/69.7:B	Conductor / wire
DCN1	+Main circuit-K105:A2	+Main circuit-RIO2-X6:10				+Main circuit/69.2:E	+Main circuit/69.7:B	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP:25				+Main circuit/72.5:A	+Main circuit/72.4:A	Direct connection
	+Main circuit-MCP	+Main circuit-X27:25				+Main circuit/72.5:A	+Main circuit/72.5:A	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:A	+Main circuit/72.5:A	Internal
	+Main circuit-MCP	+Main circuit-MCP:26				+Main circuit/72.5:A	+Main circuit/72.4:A	Direct connection
	+Main circuit-MCP	+Main circuit-X27:26				+Main circuit/72.5:A	+Main circuit/72.5:A	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:A	+Main circuit/72.5:A	Internal
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9:27				+Main circuit/72.5:B	+Main circuit/72.4:B	Direct connection
	+Main circuit-MCP-SB9	+Main circuit-X27:27				+Main circuit/72.5:B	+Main circuit/72.5:B	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:B	+Main circuit/72.5:B	Internal
	+Main circuit-MCP	+Main circuit-MCP:28				+Main circuit/72.5:B	+Main circuit/72.4:B	Direct connection
	+Main circuit-MCP	+Main circuit-X27:28				+Main circuit/72.5:B	+Main circuit/72.5:B	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:B	+Main circuit/72.5:B	Internal
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9:29				+Main circuit/72.5:B	+Main circuit/72.4:B	Direct connection
	+Main circuit-MCP-SB9	+Main circuit-X27:29				+Main circuit/72.5:B	+Main circuit/72.5:B	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:B	+Main circuit/72.5:B	Internal
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11:30				+Main circuit/72.5:C	+Main circuit/72.4:C	Direct connection
	+Main circuit-MCP-SB11	+Main circuit-X27:30				+Main circuit/72.5:C	+Main circuit/72.5:C	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:C	+Main circuit/72.5:C	Internal
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4:31				+Main circuit/72.5:C	+Main circuit/72.4:C	Direct connection
	+Main circuit-MCP-SB4	+Main circuit-X27:31				+Main circuit/72.5:C	+Main circuit/72.5:C	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:C	+Main circuit/72.5:C	Internal
	+Main circuit-MCP-SA5	+Main circuit-MCP-SA5:32				+Main circuit/72.5:D	+Main circuit/72.4:D	Direct connection
	+Main circuit-MCP-SA5	+Main circuit-X27:32				+Main circuit/72.5:D	+Main circuit/72.5:D	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:D	+Main circuit/72.5:D	Internal
	+Main circuit-MCP	+Main circuit-MCP:33				+Main circuit/72.5:D	+Main circuit/72.4:D	Direct connection
	+Main circuit-MCP	+Main circuit-X27:33				+Main circuit/72.5:D	+Main circuit/72.5:D	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:D	+Main circuit/72.5:D	Internal
	+Main circuit-MCP	+Main circuit-MCP:34				+Main circuit/72.5:D	+Main circuit/72.4:D	Direct connection
	+Main circuit-MCP	+Main circuit-X27:34				+Main circuit/72.5:D	+Main circuit/72.5:D	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:D	+Main circuit/72.5:D	Internal
	+Main circuit-MCP	+Main circuit-MCP:35				+Main circuit/72.5:E	+Main circuit/72.4:E	Direct connection
	+Main circuit-MCP	+Main circuit-X27:35				+Main circuit/72.5:E	+Main circuit/72.5:E	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:E	+Main circuit/72.5:E	Internal
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12:36				+Main circuit/72.5:E	+Main circuit/72.4:E	Direct connection
	+Main circuit-MCP-SB12	+Main circuit-X27:36				+Main circuit/72.5:E	+Main circuit/72.5:E	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:E	+Main circuit/72.5:E	Internal
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12:37				+Main circuit/72.5:E	+Main circuit/72.4:E	Direct connection
	+Main circuit-MCP-SB12	+Main circuit-X27:37				+Main circuit/72.5:E	+Main circuit/72.5:E	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/72.6:E	+Main circuit/72.5:E	Internal
	+Main circuit-MCP	+Main circuit-MCP-SA1				+Main circuit/72.4:A	+Main circuit/72.4:A	Internal
	+Main circuit-MCP	+Main circuit-MCP-SA1				+Main circuit/72.4:A	+Main circuit/72.4:A	Internal
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9				+Main circuit/72.4:B	+Main circuit/72.4:B	Internal
	+Main circuit-MCP	+Main circuit-MCP-SB9				+Main circuit/72.4:B	+Main circuit/72.4:B	Internal
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9				+Main circuit/72.4:B	+Main circuit/72.4:B	Internal
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4				+Main circuit/72.4:C	+Main circuit/72.4:C	Internal
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/72.4:C	+Main circuit/72.4:C	Internal
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB12				+Main circuit/72.4:C	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB12				+Main circuit/72.4:B	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12				+Main circuit/72.4:E	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12				+Main circuit/72.4:E	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB12				+Main circuit/72.4:C	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SA1	+Main circuit-MCP-SB12				+Main circuit/72.4:A	+Main circuit/72.4:E	Internal
	+Main circuit-MCP-SA5	+Main circuit-MCP-SA5				+Main circuit/72.4:D	+Main circuit/72.4:D	Internal
	+Main circuit-MCP	+Main circuit-MCP-SA5				+Main circuit/72.4:D	+Main circuit/72.4:D	Internal



Connection list : DCN1 -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.w
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.4:D	+Main circuit/72.4:D	Internal
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.4:D	+Main circuit/72.4:E	Internal
	0V	+Main circuit-MCP-SB12				+Main circuit/72.4:A	+Main circuit/72.4:E	Internal
	+ 24V	+Main circuit-MCP-SB12				+Main circuit/72.3:A	+Main circuit/72.4:E	Internal
DCH1	+Main circuit-SQ28:21	+Main circuit-X27:27				+Main circuit/28.3:C	+Main circuit/72.6:B	Conductor / wire
3101(DCH1)	+Main circuit-SB23:13	+Main circuit-X27:34				+Main circuit/29.4:B	+Main circuit/72.6:D	Conductor / wire
3102	+Main circuit-K310:A1	+Main circuit-X27:33				+Main circuit/29.6:E	+Main circuit/72.6:D	Conductor / wire
3103	+Main circuit-K311:A1	+Main circuit-X27:35				+Main circuit/29.7:E	+Main circuit/72.6:E	Conductor / wire
3004	+Main circuit-K311:12	+Main circuit-X27:27				+Main circuit/30.6:C	+Main circuit/72.6:B	Conductor / wire
3005	+Main circuit-KM101*:61	+Main circuit-X27:28				+Main circuit/30.6:D	+Main circuit/72.6:B	Conductor / wire
3005	+Main circuit-DINA_1:13	+Main circuit-X27:28				+Main circuit/31.2:C	+Main circuit/72.6:B	Conductor / wire
3102	+Main circuit-DINA_1:118	+Main circuit-X27:33				+Main circuit/31.5:C	+Main circuit/72.6:D	Conductor / wire
3103	+Main circuit-DINA_1:119	+Main circuit-X27:35				+Main circuit/31.5:C	+Main circuit/72.6:E	Conductor / wire
122	+Main circuit-K300:3	+Main circuit-X27:31				+Main circuit/26.2:A	+Main circuit/72.6:C	Conductor / wire
168	+Main circuit-I/O2:22	+Main circuit-X27:30				+Main circuit/46.4:D	+Main circuit/72.6:C	Conductor / wire
185	+Main circuit-I/O2:12	+Main circuit-X27:25				+Main circuit/48.4:D	+Main circuit/72.6:A	Conductor / wire
186	+Main circuit-I/O2:31	+Main circuit-X27:26				+Main circuit/48.5:D	+Main circuit/72.6:A	Conductor / wire
3004(DCH1)	+Main circuit-X27:27	+Main circuit-X27:32				+Main circuit/72.6:B	+Main circuit/72.6:D	Conductor / wire
3100(DCH1)	+Main circuit-X27:32	+Main circuit-X27:34				+Main circuit/72.6:D	+Main circuit/72.6:D	Conductor / wire
3100	+Main circuit-DINA_2:B11	+Main circuit-X27:32				+Main circuit/31.6:C	+Main circuit/72.6:D	Conductor / wire
3101	+Main circuit-DINA_2:B12	+Main circuit-X27:34				+Main circuit/31.6:C	+Main circuit/72.6:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP-SB1				+Main circuit/70.4:B	+Main circuit/70.4:C	Internal
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1				+Main circuit/70.4:C	+Main circuit/70.4:C	Internal
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2				+Main circuit/70.4:B	+Main circuit/70.4:B	Internal
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB2				+Main circuit/70.4:C	+Main circuit/70.4:B	Internal
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1				+Main circuit/70.4:C	+Main circuit/70.4:C	Internal
	+Main circuit-MCP	+Main circuit-MCP-SB1				+Main circuit/70.4:D	+Main circuit/70.4:C	Internal
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2				+Main circuit/70.4:C	+Main circuit/70.4:C	Internal
	+Main circuit-MCP	+Main circuit-MCP-SB2				+Main circuit/70.4:D	+Main circuit/70.4:C	Internal
	+Main circuit-MCP-S5	+Main circuit-MCP-S5				+Main circuit/70.4:D	+Main circuit/70.4:D	Internal
	+Main circuit-MCP	+Main circuit-MCP-S5				+Main circuit/70.4:E	+Main circuit/70.4:D	Internal
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.4:E	+Main circuit/70.4:E	Internal
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.4:E	+Main circuit/70.4:E	Internal
	+Main circuit-MCP	+Main circuit-MCP:1				+Main circuit/70.5:B	+Main circuit/70.4:B	Direct connection
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2:2				+Main circuit/70.5:B	+Main circuit/70.4:B	Direct connection
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1:3				+Main circuit/70.5:C	+Main circuit/70.4:C	Direct connection
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1:4				+Main circuit/70.5:C	+Main circuit/70.4:C	Direct connection
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2:5				+Main circuit/70.5:C	+Main circuit/70.4:C	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:6				+Main circuit/70.5:D	+Main circuit/70.4:D	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:7				+Main circuit/70.5:D	+Main circuit/70.4:D	Direct connection
	+Main circuit-MCP-S5	+Main circuit-MCP-S5:8				+Main circuit/70.5:D	+Main circuit/70.4:D	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:9				+Main circuit/70.5:E	+Main circuit/70.4:E	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:10				+Main circuit/70.5:E	+Main circuit/70.4:E	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:11				+Main circuit/70.5:E	+Main circuit/70.4:E	Direct connection
	+Main circuit-MCP	+Main circuit-X27:1				+Main circuit/70.5:B	+Main circuit/70.5:B	Direct connection
	+Main circuit-MCP-SB2	+Main circuit-X27:2				+Main circuit/70.5:B	+Main circuit/70.5:B	Direct connection
	+Main circuit-MCP-SB1	+Main circuit-X27:3				+Main circuit/70.5:C	+Main circuit/70.5:C	Direct connection
	+Main circuit-MCP-SB1	+Main circuit-X27:4				+Main circuit/70.5:C	+Main circuit/70.5:C	Direct connection
	+Main circuit-MCP-SB2	+Main circuit-X27:5				+Main circuit/70.5:C	+Main circuit/70.5:C	Direct connection
	+Main circuit-MCP	+Main circuit-X27:6				+Main circuit/70.5:D	+Main circuit/70.5:D	Direct connection
	+Main circuit-MCP	+Main circuit-X27:7				+Main circuit/70.5:D	+Main circuit/70.5:D	Direct connection
	+Main circuit-MCP-S5	+Main circuit-X27:8				+Main circuit/70.5:D	+Main circuit/70.5:D	Direct connection
	+Main circuit-MCP	+Main circuit-X27:9				+Main circuit/70.5:E	+Main circuit/70.5:E	Direct connection
	+Main circuit-MCP	+Main circuit-X27:10				+Main circuit/70.5:E	+Main circuit/70.5:E	Direct connection
	+Main circuit-MCP	+Main circuit-X27:11				+Main circuit/70.5:E	+Main circuit/70.5:E	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:B	+Main circuit/70.5:B	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:B	+Main circuit/70.5:B	Internal



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.x
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:C	+Main circuit/70.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:C	+Main circuit/70.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:C	+Main circuit/70.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:D	+Main circuit/70.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:D	+Main circuit/70.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:D	+Main circuit/70.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:E	+Main circuit/70.5:E	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:E	+Main circuit/70.5:E	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/70.6:E	+Main circuit/70.5:E	Internal
	0V	+Main circuit-MCP				+Main circuit/70.4:B	+Main circuit/70.4:D	Internal
	+ 24V	+Main circuit-MCP				+Main circuit/70.3:A	+Main circuit/70.4:D	Internal
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB5:15				+Main circuit/71.5:B	+Main circuit/71.4:B	Direct connection
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB5:16				+Main circuit/71.5:C	+Main circuit/71.4:C	Direct connection
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB6:17				+Main circuit/71.5:C	+Main circuit/71.4:C	Direct connection
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB7:18				+Main circuit/71.5:C	+Main circuit/71.4:C	Direct connection
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB6:19				+Main circuit/71.5:D	+Main circuit/71.4:D	Direct connection
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB7:20				+Main circuit/71.5:D	+Main circuit/71.4:D	Direct connection
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10:21				+Main circuit/71.5:D	+Main circuit/71.4:D	Direct connection
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11:22				+Main circuit/71.5:E	+Main circuit/71.4:E	Direct connection
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10:23				+Main circuit/71.5:E	+Main circuit/71.4:E	Direct connection
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11:24				+Main circuit/71.5:E	+Main circuit/71.4:E	Direct connection
	+Main circuit-MCP-SB5	+Main circuit-X27:15				+Main circuit/71.5:B	+Main circuit/71.5:B	Direct connection
	+Main circuit-MCP-SB5	+Main circuit-X27:16				+Main circuit/71.5:C	+Main circuit/71.5:C	Direct connection
	+Main circuit-MCP-SB6	+Main circuit-X27:17				+Main circuit/71.5:C	+Main circuit/71.5:C	Direct connection
	+Main circuit-MCP-SB7	+Main circuit-X27:18				+Main circuit/71.5:C	+Main circuit/71.5:C	Direct connection
	+Main circuit-MCP-SB6	+Main circuit-X27:19				+Main circuit/71.5:D	+Main circuit/71.5:D	Direct connection
	+Main circuit-MCP-SB7	+Main circuit-X27:20				+Main circuit/71.5:D	+Main circuit/71.5:D	Direct connection
	+Main circuit-MCP-SB10	+Main circuit-X27:21				+Main circuit/71.5:D	+Main circuit/71.5:D	Direct connection
	+Main circuit-MCP-SB11	+Main circuit-X27:22				+Main circuit/71.5:E	+Main circuit/71.5:E	Direct connection
	+Main circuit-MCP-SB10	+Main circuit-X27:23				+Main circuit/71.5:E	+Main circuit/71.5:E	Direct connection
	+Main circuit-MCP-SB11	+Main circuit-X27:24				+Main circuit/71.5:E	+Main circuit/71.5:E	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:B	+Main circuit/71.5:B	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:C	+Main circuit/71.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:C	+Main circuit/71.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:C	+Main circuit/71.5:C	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:D	+Main circuit/71.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:D	+Main circuit/71.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:D	+Main circuit/71.5:D	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:E	+Main circuit/71.5:E	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:E	+Main circuit/71.5:E	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:E	+Main circuit/71.5:E	Internal
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB3:12				+Main circuit/71.5:A	+Main circuit/71.4:A	Direct connection
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4:13				+Main circuit/71.5:B	+Main circuit/71.4:B	Direct connection
	+Main circuit-MCP	+Main circuit-MCP:14				+Main circuit/71.5:B	+Main circuit/71.4:B	Direct connection
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB3				+Main circuit/71.5:A	+Main circuit/71.5:A	Conductor / wire
	+Main circuit-MCP-SB3	+Main circuit-X27:12				+Main circuit/71.5:A	+Main circuit/71.5:A	Direct connection
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4				+Main circuit/71.5:B	+Main circuit/71.5:B	Conductor / wire
	+Main circuit-MCP-SB4	+Main circuit-X27:13				+Main circuit/71.5:B	+Main circuit/71.5:B	Direct connection
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/71.5:B	+Main circuit/71.5:B	Conductor / wire
	+Main circuit-MCP	+Main circuit-X27:14				+Main circuit/71.5:B	+Main circuit/71.5:B	Direct connection
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:A	+Main circuit/71.5:A	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:B	+Main circuit/71.5:B	Internal
	+Main circuit-X27	+Main circuit-X27				+Main circuit/71.6:B	+Main circuit/71.5:B	Internal
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4				+Main circuit/71.4:B	+Main circuit/71.4:B	Internal
	+Main circuit-MCP	+Main circuit-MCP-SB4				+Main circuit/71.4:B	+Main circuit/71.4:B	Internal
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB5				+Main circuit/71.4:B	+Main circuit/71.4:B	Internal
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB5				+Main circuit/71.4:C	+Main circuit/71.4:C	Internal



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.y
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10				+Main circuit/71.4:D	+Main circuit/71.4:D	Internal
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB11				+Main circuit/71.4:D	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB11				+Main circuit/71.4:C	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB11				+Main circuit/71.4:C	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB11				+Main circuit/71.4:B	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB11				+Main circuit/71.4:A	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/71.4:E	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10				+Main circuit/71.4:E	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB11				+Main circuit/71.4:E	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB11				+Main circuit/71.4:D	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB11				+Main circuit/71.4:C	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB11				+Main circuit/71.4:C	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/71.4:E	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB3				+Main circuit/71.4:A	+Main circuit/71.4:A	Internal
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB3				+Main circuit/71.4:A	+Main circuit/71.4:A	Internal
	+Main circuit-MCP-SB3	+Main circuit-MCP-SB11				+Main circuit/71.4:A	+Main circuit/71.4:E	Internal
	+Main circuit-MCP-JP5	+Main circuit-MCP-SB6				+Main circuit/71.3:C	+Main circuit/71.4:C	Internal
	+Main circuit-MCP-JP5	+Main circuit-MCP-SB6				+Main circuit/71.3:C	+Main circuit/71.4:C	Internal
	+Main circuit-MCP-JP5	+Main circuit-MCP-SB6				+Main circuit/71.3:C	+Main circuit/71.4:D	Internal
	+Main circuit-MCP-JP6	+Main circuit-MCP-SB7				+Main circuit/71.3:D	+Main circuit/71.4:C	Internal
	+Main circuit-MCP-JP6	+Main circuit-MCP-SB7				+Main circuit/71.3:D	+Main circuit/71.4:C	Internal
	+Main circuit-MCP-JP6	+Main circuit-MCP-SB7				+Main circuit/71.3:D	+Main circuit/71.4:D	Internal
	+Main circuit-MCP-JP6	+Main circuit-MCP-SB7				+Main circuit/71.3:D	+Main circuit/71.4:D	Internal
	0V	+Main circuit-MCP-SB11				+Main circuit/71.4:A	+Main circuit/71.4:E	Internal
	+ 24V	+Main circuit-MCP-SB11				+Main circuit/71.3:A	+Main circuit/71.4:E	Internal
DCH1	+Main circuit-M22:11	+Main circuit-X27:13				+Main circuit/20.2:E	+Main circuit/71.6:B	Conductor / wire
24VC	+Main circuit-K321:13	+Main circuit-X27:2				+Main circuit/23.2:B	+Main circuit/70.6:B	Conductor / wire
309	+Main circuit-KM80:3	+Main circuit-X27:1				+Main circuit/23.5:B	+Main circuit/70.6:B	Conductor / wire
310	+Main circuit-KM80:A1	+Main circuit-X27:3				+Main circuit/23.4:E	+Main circuit/70.6:C	Conductor / wire
310	+Main circuit-KM80:4	+Main circuit-X27:3				+Main circuit/23.5:B	+Main circuit/70.6:C	Conductor / wire
24VC	+Main circuit-S3:11	+Main circuit-X27:2				+Main circuit/24.6:A	+Main circuit/70.6:B	Conductor / wire
91	+Main circuit-K300:5	+Main circuit-X27:8				+Main circuit/26.4:A	+Main circuit/70.6:D	Conductor / wire
211	+Main circuit-K300:6	+Main circuit-X27:10				+Main circuit/26.4:A	+Main circuit/70.6:E	Conductor / wire
DCH1	+Main circuit-SQ2:11	+Main circuit-X27:13				+Main circuit/26.2:A	+Main circuit/71.6:B	Conductor / wire
86	+Main circuit-L3:12	+Main circuit-X27:14				+Main circuit/26.2:B	+Main circuit/71.6:B	Conductor / wire
117	+Main circuit-KM80:14	+Main circuit-X27:4				+Main circuit/39.1:B	+Main circuit/70.6:C	Conductor / wire
118	+Main circuit-KM80:22	+Main circuit-X27:5				+Main circuit/39.2:B	+Main circuit/70.6:C	Conductor / wire
119	+Main circuit-KM3:14	+Main circuit-X27:16				+Main circuit/39.2:B	+Main circuit/71.6:C	Conductor / wire
120	+Main circuit-KM4-1:14	+Main circuit-X27:23				+Main circuit/39.3:B	+Main circuit/71.6:E	Conductor / wire
120	+Main circuit-KM10-1:14	+Main circuit-X27:23				+Main circuit/39.4:B	+Main circuit/71.6:E	Conductor / wire
121	+Main circuit-KM4-2:14	+Main circuit-X27:24				+Main circuit/39.3:B	+Main circuit/71.6:E	Conductor / wire
121	+Main circuit-KM10-2:14	+Main circuit-X27:24				+Main circuit/39.5:B	+Main circuit/71.6:E	Conductor / wire
123	+Main circuit-KW:14	+Main circuit-X27:12				+Main circuit/39.5:E	+Main circuit/71.6:A	Conductor / wire
114	+Main circuit-I/O1:35	+Main circuit-X27:17				+Main circuit/45.5:D	+Main circuit/71.6:C	Conductor / wire
115	+Main circuit-I/O1:17	+Main circuit-X27:18				+Main circuit/45.6:D	+Main circuit/71.6:C	Conductor / wire
116	+Main circuit-I/O1:36	+Main circuit-X27:15				+Main circuit/45.6:D	+Main circuit/71.6:B	Conductor / wire
165	+Main circuit-I/O2:2	+Main circuit-X27:21				+Main circuit/46.2:D	+Main circuit/71.6:D	Conductor / wire
166	+Main circuit-I/O2:21	+Main circuit-X27:22				+Main circuit/46.2:D	+Main circuit/71.6:E	Conductor / wire
DCH1	+Main circuit-X27:6	+Main circuit-X27:6				+Main circuit/70.6:D	+Main circuit/70.6:D	Conductor / wire
DCN1	+Main circuit-X27:7	+Main circuit-X27:7				+Main circuit/70.6:D	+Main circuit/70.6:D	Conductor / wire
								Conductor / wire
78	+Main circuit-R1:x1	+Main circuit-U4:Re				+Main circuit/75.7:B	+Main circuit/75.7:B	Conductor / wire
77	+Main circuit-R1:x2	+Main circuit-U4:L+				+Main circuit/75.7:B	+Main circuit/75.7:B	Conductor / wire
78	+Main circuit-R1:x1	+Main circuit-U4:Re				+Main circuit/75.7:E	+Main circuit/75.7:D	Conductor / wire
77	+Main circuit-R1:x2	+Main circuit-U4:L+				+Main circuit/75.7:E	+Main circuit/75.7:D	Conductor / wire
	+Main circuit-R1:x1	+Main circuit-R2:x1				+Main circuit/75.7:E	+Main circuit/75.6:E	Conductor / wire



Connection list : -

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Drawing No.	L00-0091-100		
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Editor	Vincent		
		Rev.	100
		Page	R2.z
		Total	169

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-R1:x2	+Main circuit-R2:x2				+Main circuit/75.7:E	+Main circuit/75.6:E	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/75.1:A	+Main circuit/75.2:A	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/75.1:A	+Main circuit/75.2:B	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/75.6:B	+Main circuit/75.6:B	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/75.1:D	+Main circuit/75.2:D	Conductor / wire
290	+Main circuit-U4:3	+Main circuit-U4:4				+Main circuit/77.4:C	+Main circuit/77.4:C	Conductor / wire
	+Main circuit-U4:L1	+Main circuit-U4:L1				+Main circuit/77.2:B	+Main circuit/77.2:C	Conductor / wire
	+Main circuit-U4:L2	+Main circuit-U4:L2				+Main circuit/77.2:B	+Main circuit/77.3:C	Conductor / wire
	+Main circuit-U4:L3	+Main circuit-U4:L3				+Main circuit/77.2:B	+Main circuit/77.3:C	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/77.1:A	+Main circuit/77.2:A	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/77.1:A	+Main circuit/77.2:C	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/77.8:C	+Main circuit/77.7:C	Conductor / wire
L9	+Main circuit-CHOKE:W2	+Main circuit-U4-L3				+Main circuit/14.5:B	+Main circuit/77.2:A	Conductor / wire
L7	+Main circuit-CHOKE:U2	+Main circuit-U4-L1				+Main circuit/14.4:B	+Main circuit/77.2:A	Conductor / wire
L8	+Main circuit-CHOKE:V2	+Main circuit-U4-L2				+Main circuit/14.4:B	+Main circuit/77.2:A	Conductor / wire
129	+Main circuit-F3:1	+Main circuit-U4:24V				+Main circuit/18.5:D	+Main circuit/75.5:B	Conductor / wire
129	+Main circuit-F3:1	+Main circuit-U4:24V				+Main circuit/18.5:D	+Main circuit/77.7:C	Conductor / wire
83	+Main circuit-DINA_1:23	+Main circuit-U4:7				+Main circuit/31.5:C	+Main circuit/77.6:C	Conductor / wire
82	+Main circuit-I/O2-K1:14	+Main circuit-U4:6				+Main circuit/36.2:B	+Main circuit/77.6:C	Conductor / wire
134	+Main circuit-KM101:22	+Main circuit-U4:1				+Main circuit/38.1:A	+Main circuit/77.5:C	Conductor / wire
219	+Main circuit-KM101:54	+Main circuit-U4:4				+Main circuit/38.2:A	+Main circuit/77.5:C	Conductor / wire
								Conductor / wire
								Conductor / wire
141	+Main circuit-U4X-X2:3	+Main circuit-U4X-X2:4				+Main circuit/78.7:B	+Main circuit/78.7:B	Conductor / wire
DCN1	+Main circuit-MX:F	+Main circuit-V3				+Main circuit/78.2:D	+Main circuit/78.3:D	Conductor / wire
306	+Main circuit-MX:E	+Main circuit-V3				+Main circuit/78.2:D	+Main circuit/78.3:D	Conductor / wire
142	+Main circuit-U4Z-X2:3	+Main circuit-U4Z-X2:4				+Main circuit/80.7:B	+Main circuit/80.7:B	Conductor / wire
143	+Main circuit-U4S-X2:3	+Main circuit-U4S-X2:4				+Main circuit/82.7:B	+Main circuit/82.7:B	Conductor / wire
143	+Main circuit-U4S-X2:3	+Main circuit-U4S-X2:4				+Main circuit/84.7:B	+Main circuit/84.7:B	Conductor / wire
144	+Main circuit-U4S2-X2:3	+Main circuit-U4S2-X2:4				+Main circuit/85.7:B	+Main circuit/85.7:B	Conductor / wire
3012	+Main circuit-KM35:22	+Main circuit-U4X-X7:1				+Main circuit/30.3:D	+Main circuit/78.6:B	Conductor / wire
3013	+Main circuit-U4X-X7:2	+Main circuit-U4Z-X7:1				+Main circuit/78.6:B	+Main circuit/80.6:B	Conductor / wire
3014	+Main circuit-U4S-X7:1	+Main circuit-U4Z-X7:2				+Main circuit/82.6:B	+Main circuit/80.6:B	Conductor / wire
3014	+Main circuit-U4S-X7:1	+Main circuit-U4Z-X7:2				+Main circuit/84.6:B	+Main circuit/80.6:B	Conductor / wire
3015	+Main circuit-U4S-X7:2	+Main circuit-U4S2-X7:1				+Main circuit/84.6:B	+Main circuit/85.6:B	Conductor / wire
		+Main circuit-U4X-X4:26				+Main circuit/78.4:B	+Main circuit/78.4:B	Conductor / wire
		+Main circuit-U4X-X4:26				+Main circuit/78.3:B	+Main circuit/78.4:B	Conductor / wire
		+Main circuit-U4X-X4:26				+Main circuit/78.3:B	+Main circuit/78.4:B	Conductor / wire
		+Main circuit-U4X-X4				+Main circuit/78.4:C	+Main circuit/78.5:B	Conductor / wire
		+Main circuit-U4Z-X4:26				+Main circuit/80.4:B	+Main circuit/80.4:B	Conductor / wire
		+Main circuit-U4Z-X4:26				+Main circuit/80.3:B	+Main circuit/80.4:B	Conductor / wire
		+Main circuit-U4Z-X4:26				+Main circuit/80.3:B	+Main circuit/80.4:B	Conductor / wire
		+Main circuit-U4Z-X4				+Main circuit/80.4:C	+Main circuit/80.5:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/82.4:B	+Main circuit/82.4:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/82.3:B	+Main circuit/82.4:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/82.3:B	+Main circuit/82.4:B	Conductor / wire
		+Main circuit-U4S-X4				+Main circuit/82.4:C	+Main circuit/82.5:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/84.4:B	+Main circuit/84.4:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/84.3:B	+Main circuit/84.4:B	Conductor / wire
		+Main circuit-U4S-X4:26				+Main circuit/84.3:B	+Main circuit/84.4:B	Conductor / wire
		+Main circuit-U4S-X4				+Main circuit/84.4:C	+Main circuit/84.5:B	Conductor / wire
		+Main circuit-U4S2-X4:26				+Main circuit/85.4:B	+Main circuit/85.4:B	Conductor / wire
		+Main circuit-U4S2-X4:26				+Main circuit/85.3:B	+Main circuit/85.4:B	Conductor / wire
		+Main circuit-U4S2-X4:26				+Main circuit/85.3:B	+Main circuit/85.4:B	Conductor / wire
		+Main circuit-U4S2-X4				+Main circuit/85.4:C	+Main circuit/85.5:B	Conductor / wire
	+Main circuit-CNC-X4:9	+Main circuit-ENCODER:H				+Main circuit/88.7:C	+Main circuit/88.4:C	Conductor / wire
		+Main circuit-CNC-X4:15				+Main circuit/88.6:D	+Main circuit/88.7:D	Conductor / wire



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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-C1:x1	+Main circuit-CNC-X5:1				+Main circuit/90.6:B	+Main circuit/90.7:A	Conductor / wire
	+Main circuit-C2:x1	+Main circuit-CNC-X5:3				+Main circuit/90.7:B	+Main circuit/90.7:B	Conductor / wire
	+Main circuit-C1:x2	+Main circuit-C2:x2				+Main circuit/90.6:B	+Main circuit/90.7:B	Conductor / wire
	+Main circuit-C2:x2	+Main circuit-CNC-X5:11				+Main circuit/90.7:B	+Main circuit/90.7:B	Conductor / wire
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.3:E	+Main circuit/90.3:E	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:E	+Main circuit/90.3:E	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:E	+Main circuit/90.3:E	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:F	+Main circuit/90.3:E	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:D	+Main circuit/90.3:D	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:D	+Main circuit/90.3:D	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:D	+Main circuit/90.3:D	Internal
	+Main circuit-MPG	+Main circuit-MPG				+Main circuit/90.4:E	+Main circuit/90.3:D	Internal
	+Main circuit-LOCK:x1	+Main circuit-UNLOCK:x1				+Main circuit/92.4:B	+Main circuit/92.4:B	Conductor / wire
35	+Main circuit-F6:2	+Main circuit-U4T:L1				+Main circuit/92.1:B	+Main circuit/92.1:B	Conductor / wire
36	+Main circuit-F6:4	+Main circuit-U4T:L2				+Main circuit/92.1:B	+Main circuit/92.2:B	Conductor / wire
37	+Main circuit-F6:6	+Main circuit-U4T:L3				+Main circuit/92.1:B	+Main circuit/92.2:B	Conductor / wire
139	+Main circuit-U4T-PE:LO.15	+Main circuit-UNLOCK:x2				+Main circuit/92.4:B	+Main circuit/92.4:B	Conductor / wire
138	+Main circuit-LOCK:x2	+Main circuit-U4T-PE:LO0.16				+Main circuit/92.4:B	+Main circuit/92.4:B	Conductor / wire
137	+Main circuit-LOCK:x1	+Main circuit-U4T-PE:0P				+Main circuit/92.4:B	+Main circuit/92.4:B	Conductor / wire
U200	C1	+Main circuit-U4T:U				+Main circuit/92.2:D	+Main circuit/92.2:B	Conductor / wire
V200	C2	+Main circuit-U4T:V				+Main circuit/92.2:D	+Main circuit/92.2:B	Conductor / wire
W200	C3	+Main circuit-U4T:W				+Main circuit/92.2:D	+Main circuit/92.2:B	Conductor / wire
PE	C4	+Main circuit-U4T-PE				+Main circuit/92.3:D	+Main circuit/92.3:B	Conductor / wire
	B1	+Main circuit-U4T-PE:+ 24VE				+Main circuit/92.5:D	+Main circuit/92.5:B	Conductor / wire
	B2	+Main circuit-U4T-PE:0PE				+Main circuit/92.5:D	+Main circuit/92.5:B	Conductor / wire
	B3	+Main circuit-U4T-PE:LI.12				+Main circuit/92.5:D	+Main circuit/92.5:B	Conductor / wire
	B4	+Main circuit-U4T-PE:LI.13				+Main circuit/92.5:D	+Main circuit/92.5:B	Conductor / wire
	B5	+Main circuit-U4T-PE:LI.14				+Main circuit/92.5:D	+Main circuit/92.5:B	Conductor / wire
	A1	+Main circuit-U4T-PE:1				+Main circuit/92.7:D	+Main circuit/92.7:B	Conductor / wire
	A2	+Main circuit-U4T-PE:2				+Main circuit/92.7:D	+Main circuit/92.7:B	Conductor / wire
	A3	+Main circuit-U4T-PE:3				+Main circuit/92.7:D	+Main circuit/92.7:B	Conductor / wire
	A4	+Main circuit-U4T-PE:4				+Main circuit/92.7:D	+Main circuit/92.7:B	Conductor / wire
	A5	+Main circuit-U4T-PE:5				+Main circuit/92.8:D	+Main circuit/92.8:B	Conductor / wire
	A6	+Main circuit-U4T-PE:6				+Main circuit/92.8:D	+Main circuit/92.8:B	Conductor / wire
	A7	+Main circuit-U4T-PE:7				+Main circuit/92.8:D	+Main circuit/92.8:B	Conductor / wire
	A8	+Main circuit-U4T-PE:8				+Main circuit/92.8:D	+Main circuit/92.8:B	Conductor / wire
	A9	+Main circuit-U4T-PE:9				+Main circuit/92.8:D	+Main circuit/92.8:B	Conductor / wire
	C1	+Main circuit-TB_TURRET:U				+Main circuit/92.2:D	+Main circuit/92.2:E	Conductor / wire
	C2	+Main circuit-TB_TURRET:V				+Main circuit/92.2:D	+Main circuit/92.2:E	Conductor / wire
	C3	+Main circuit-TB_TURRET:W				+Main circuit/92.2:D	+Main circuit/92.2:E	Conductor / wire
	C4	+Main circuit-TB_TURRET:C				+Main circuit/92.3:D	+Main circuit/92.3:E	Conductor / wire
	B1	+Main circuit-TB_TURRET:10				+Main circuit/92.5:D	+Main circuit/92.5:E	Conductor / wire
	B2	+Main circuit-TB_TURRET:11				+Main circuit/92.5:D	+Main circuit/92.5:E	Conductor / wire
	B3	+Main circuit-TB_TURRET:12				+Main circuit/92.5:D	+Main circuit/92.5:E	Conductor / wire
	B4	+Main circuit-TB_TURRET:13				+Main circuit/92.5:D	+Main circuit/92.5:E	Conductor / wire
	B5	+Main circuit-TB_TURRET:14				+Main circuit/92.5:D	+Main circuit/92.5:E	Conductor / wire
	A1	+Main circuit-TB_TURRET:1				+Main circuit/92.7:D	+Main circuit/92.7:E	Conductor / wire
	A2	+Main circuit-TB_TURRET:2				+Main circuit/92.7:D	+Main circuit/92.7:E	Conductor / wire
	A3	+Main circuit-TB_TURRET:3				+Main circuit/92.7:D	+Main circuit/92.7:E	Conductor / wire
	A4	+Main circuit-TB_TURRET:4				+Main circuit/92.7:D	+Main circuit/92.7:E	Conductor / wire
	A5	+Main circuit-TB_TURRET:5				+Main circuit/92.8:D	+Main circuit/92.8:E	Conductor / wire
	A6	+Main circuit-TB_TURRET:6				+Main circuit/92.8:D	+Main circuit/92.8:E	Conductor / wire
	A7	+Main circuit-TB_TURRET:7				+Main circuit/92.8:D	+Main circuit/92.8:E	Conductor / wire
	A8	+Main circuit-TB_TURRET:8				+Main circuit/92.8:D	+Main circuit/92.8:E	Conductor / wire
	A9	+Main circuit-TB_TURRET:9				+Main circuit/92.8:D	+Main circuit/92.8:E	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K51				+Main circuit/93.3:F	+Main circuit/93.3:E	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K48				+Main circuit/93.3:F	+Main circuit/93.3:E	Conductor / wire



Connection list : -

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Drawing No.	L00-0091-100		
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	+Main circuit-I/O2-K46	+Main circuit-I/O2-K54				+Main circuit/93.3:F	+Main circuit/93.3:E	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K50				+Main circuit/93.3:F	+Main circuit/93.3:D	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K47				+Main circuit/93.3:F	+Main circuit/93.3:C	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K53				+Main circuit/93.3:F	+Main circuit/93.3:C	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K49				+Main circuit/93.3:F	+Main circuit/93.3:B	Conductor / wire
	+Main circuit-I/O2-K46	+Main circuit-I/O2-K52				+Main circuit/93.3:F	+Main circuit/93.3:B	Conductor / wire
62	+OPT1-KM30:2	+OPT1-U4T:R				+Main circuit/94.1:B	+Main circuit/94.1:B	Conductor / wire
	+OPT1-U4T:L1	+OPT1-U4T:R				+Main circuit/94.1:B	+Main circuit/94.1:B	Conductor / wire
63	+OPT1-KM30:4	+OPT1-U4T:S				+Main circuit/94.1:B	+Main circuit/94.1:B	Conductor / wire
	+OPT1-U4T:L2	+OPT1-U4T:S				+Main circuit/94.1:B	+Main circuit/94.1:B	Conductor / wire
64	+OPT1-KM30:6	+OPT1-U4T:T				+Main circuit/94.2:B	+Main circuit/94.2:B	Conductor / wire
U200	C1	+OPT1-U4T:U				+Main circuit/94.2:D	+Main circuit/94.2:B	Conductor / wire
V200	C2	+OPT1-U4T:V				+Main circuit/94.3:D	+Main circuit/94.3:B	Conductor / wire
W200	C3	+OPT1-U4T:W				+Main circuit/94.3:D	+Main circuit/94.3:B	Conductor / wire
	+OPT1-U4T:D	+OPT1-U4T:P				+Main circuit/94.3:B	+Main circuit/94.3:B	Conductor / wire
PE	C4	+OPT1-U4T				+Main circuit/94.3:D	+Main circuit/94.8:B	Conductor / wire
35	+OPT1-F6:2	+OPT1-KM30:1				+Main circuit/94.1:C	+Main circuit/94.1:B	Conductor / wire
36	+OPT1-F6:4	+OPT1-KM30:3				+Main circuit/94.1:C	+Main circuit/94.1:B	Conductor / wire
37	+OPT1-F6:6	+OPT1-KM30:5				+Main circuit/94.1:C	+Main circuit/94.2:B	Conductor / wire
	A1	+OPT1-U4T:5				+Main circuit/94.6:D	+Main circuit/94.6:B	Conductor / wire
	A2	+OPT1-U4T:4				+Main circuit/94.6:D	+Main circuit/94.6:B	Conductor / wire
	A3	+OPT1-U4T:7				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	A4	+OPT1-U4T:9				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	A5	+OPT1-U4T:10				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	A6	+OPT1-U4T:2				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	A7	+OPT1-U4T:13				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	A8	+OPT1-U4T:14				+Main circuit/94.7:D	+Main circuit/94.7:B	Conductor / wire
	+OPT1-U4T:13	+OPT1-U4T:15				+Main circuit/94.7:B	+Main circuit/94.8:B	Conductor / wire
	+OPT1-U4T:14	+OPT1-U4T:16				+Main circuit/94.7:B	+Main circuit/94.8:B	Conductor / wire
	C1	+Main circuit-SAUTER_TURRET:U				+Main circuit/94.2:D	+Main circuit/94.2:E	Conductor / wire
	C2	+Main circuit-SAUTER_TURRET:V				+Main circuit/94.3:D	+Main circuit/94.3:E	Conductor / wire
	C3	+Main circuit-SAUTER_TURRET:W				+Main circuit/94.3:D	+Main circuit/94.3:E	Conductor / wire
	B1	+Main circuit-SAUTER_TURRET:10				+Main circuit/94.4:D	+Main circuit/94.4:E	Conductor / wire
	B2	+Main circuit-SAUTER_TURRET:11				+Main circuit/94.4:D	+Main circuit/94.4:E	Conductor / wire
	B3	+Main circuit-SAUTER_TURRET:12				+Main circuit/94.4:D	+Main circuit/94.4:E	Conductor / wire
	B4	+Main circuit-SAUTER_TURRET:13				+Main circuit/94.5:D	+Main circuit/94.5:E	Conductor / wire
	B5	+Main circuit-SAUTER_TURRET:14				+Main circuit/94.5:D	+Main circuit/94.5:E	Conductor / wire
	A1	+Main circuit-SAUTER_TURRET:A				+Main circuit/94.6:D	+Main circuit/94.6:E	Conductor / wire
	A2	+Main circuit-SAUTER_TURRET:/ A				+Main circuit/94.6:D	+Main circuit/94.6:E	Conductor / wire
	A3	+Main circuit-SAUTER_TURRET:B				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	A4	+Main circuit-SAUTER_TURRET:/ B				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	A5	+Main circuit-SAUTER_TURRET:Z				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	A6	+Main circuit-SAUTER_TURRET:/Z				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	A7	+Main circuit-SAUTER_TURRET:GND				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	A8	+Main circuit-SAUTER_TURRET:+ 5V				+Main circuit/94.7:D	+Main circuit/94.7:E	Conductor / wire
	C4	+Main circuit-SAUTER_TURRET				+Main circuit/94.3:D	+Main circuit/94.3:E	Conductor / wire
	PE	+OPT1-U4T				+Main circuit/94.8:C	+Main circuit/94.8:B	Conductor / wire
	+Main circuit-K120:14	+Main circuit-K121:14				+Main circuit/95.5:A	+Main circuit/95.5:A	Conductor / wire
	+Main circuit-K119:14	+Main circuit-K120:14				+Main circuit/95.6:A	+Main circuit/95.5:A	Conductor / wire
	+Main circuit-K118:14	+Main circuit-K119:14				+Main circuit/95.6:A	+Main circuit/95.6:A	Conductor / wire
	+Main circuit-K117:14	+Main circuit-K118:14				+Main circuit/95.7:A	+Main circuit/95.6:A	Conductor / wire
	+OPT1-U4T-CN1:11	+OPT1-U4T-CN1:17				+Main circuit/95.2:C	+Main circuit/95.2:C	Conductor / wire
	+OPT1-U4T-CN1:2	+OPT1-U4T-CN1:27				+Main circuit/95.2:B	+Main circuit/95.2:D	Conductor / wire
	+OPT1-U4T-CN1:26	+OPT1-U4T-CN1:27				+Main circuit/95.2:C	+Main circuit/95.2:D	Conductor / wire
	+OPT1-U4T-CN1:6	+OPT1-U4T-CN1:27				+Main circuit/95.2:B	+Main circuit/95.2:D	Conductor / wire
	+OPT1-U4T-CN1:4	+OPT1-U4T-CN1:27				+Main circuit/95.2:B	+Main circuit/95.2:D	Conductor / wire
	+OPT1-U4T-CN1:45	+OPT1-U4T-CN1:47				+Main circuit/95.2:E	+Main circuit/95.2:E	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.zc
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+OPT1-U4T-CN1:45	+OPT1-U4T-CN1:49				+Main circuit/95.2:E	+Main circuit/95.2:E	Conductor / wire
	+Main circuit-K117:9	+Main circuit-K118:9				+Main circuit/96.3:B	+Main circuit/96.4:B	Conductor / wire
	+Main circuit-K118:9	+Main circuit-K119:9				+Main circuit/96.4:B	+Main circuit/96.5:B	Conductor / wire
	+Main circuit-K119:9	+Main circuit-K120:9				+Main circuit/96.5:B	+Main circuit/96.5:B	Conductor / wire
	+Main circuit-K120:9	+Main circuit-K121:9				+Main circuit/96.5:B	+Main circuit/96.6:B	Conductor / wire
346	+Main circuit-I/O2-K46:14	+Main circuit-YV50:x1				+Main circuit/96.2:B	+Main circuit/96.2:E	Conductor / wire
	+Main circuit-I/O2-K46:11	+Main circuit-I/O2-K54:11				+Main circuit/96.2:B	+Main circuit/96.2:B	Conductor / wire
354	+Main circuit-I/O2-K54:14	+Main circuit-YV50:x1				+Main circuit/96.2:B	+Main circuit/96.2:E	Conductor / wire
	+TURRET2-DUPLOMATIC:L	+TURRET2-DUPLOMATIC:L1				+Main circuit/97.7:B	+Main circuit/97.7:B	Conductor / wire
	+TURRET2-DUPLOMATIC:L2	+TURRET2-DUPLOMATIC:N				+Main circuit/97.7:B	+Main circuit/97.7:B	Conductor / wire
	+TURRET2-XT-B:GND	+TURRET2-XT-MF				+Main circuit/97.3:A	+Main circuit/97.4:A	Conductor / wire
	+TURRET2-XT-B:W	+TURRET2-XT-MF				+Main circuit/97.3:B	+Main circuit/97.4:B	Conductor / wire
	+TURRET2-XT-B:V	+TURRET2-XT-MF				+Main circuit/97.3:B	+Main circuit/97.4:B	Conductor / wire
	+TURRET2-XT-B:U	+TURRET2-XT-MF				+Main circuit/97.3:B	+Main circuit/97.4:B	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:1	+TURRET2-XT-MF:A1				+Main circuit/97.6:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:2	+TURRET2-XT-MF:A2				+Main circuit/97.6:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:3	+TURRET2-XT-MF:A3				+Main circuit/97.6:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:5	+TURRET2-XT-MF:A5				+Main circuit/97.6:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:4	+TURRET2-XT-MF:A4				+Main circuit/97.6:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-DUPLOMATIC-P6:6	+TURRET2-XT-MF:A6				+Main circuit/97.6:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:1	+TURRET2-XT-MF:B1				+Main circuit/97.6:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:2	+TURRET2-XT-MF:B2				+Main circuit/97.6:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:3	+TURRET2-XT-MF:B3				+Main circuit/97.6:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:5	+TURRET2-XT-MF:B4				+Main circuit/97.6:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:8	+TURRET2-XT-MF:B5				+Main circuit/97.6:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-DUPLOMATIC-P5:7	+TURRET2-XT-MF:B6				+Main circuit/97.6:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-XT-B:1	+TURRET2-XT-MF				+Main circuit/97.3:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-XT-B:2	+TURRET2-XT-MF				+Main circuit/97.3:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-XT-B:3	+TURRET2-XT-MF				+Main circuit/97.3:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-XT-B:5	+TURRET2-XT-MF				+Main circuit/97.3:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-XT-B:4	+TURRET2-XT-MF				+Main circuit/97.3:C	+Main circuit/97.4:C	Conductor / wire
	+TURRET2-XT-B:6	+TURRET2-XT-MF				+Main circuit/97.3:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-XT-B:10	+TURRET2-XT-MF				+Main circuit/97.3:D	+Main circuit/97.4:D	Conductor / wire
	+TURRET2-XT-B:11	+TURRET2-XT-MF				+Main circuit/97.3:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-XT-B:12	+TURRET2-XT-MF				+Main circuit/97.3:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-XT-B:13	+TURRET2-XT-MF				+Main circuit/97.3:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-XT-B:14	+TURRET2-XT-MF				+Main circuit/97.3:E	+Main circuit/97.4:E	Conductor / wire
	+TURRET2-XT-B:15	+TURRET2-XT-MF				+Main circuit/97.3:E	+Main circuit/97.4:E	Conductor / wire
	PE	+TURRET2-DUPLOMATIC:GND				+Main circuit/97.8:A	+Main circuit/97.7:A	Conductor / wire
	PE	+TURRET2-DUPLOMATIC:GND				+Main circuit/97.7:A	+Main circuit/97.7:A	Conductor / wire
334	+Main circuit-I/O2-K34:14	+TURRET2-DUPLOMATIC:P4-4				+Main circuit/98.4:C	+Main circuit/98.2:C	Conductor / wire
333	+Main circuit-I/O2-K33:14	+TURRET2-DUPLOMATIC:P4-3				+Main circuit/98.4:C	+Main circuit/98.2:C	Conductor / wire
324	+Main circuit-I/O2-K24:14	+TURRET2-DUPLOMATIC:P4-2				+Main circuit/98.4:C	+Main circuit/98.2:C	Conductor / wire
323	+Main circuit-I/O2-K23:14	+TURRET2-DUPLOMATIC:P4-1				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
322	+Main circuit-I/O2-K22:14	+TURRET2-DUPLOMATIC:P4-6				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
335	+Main circuit-I/O2-K35:14	+TURRET2-DUPLOMATIC:P4-5				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
338	+Main circuit-I/O2-K38:14	+TURRET2-DUPLOMATIC:P4-11				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
337	+Main circuit-I/O2-K37:14	+TURRET2-DUPLOMATIC:P4-10				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
336	+Main circuit-I/O2-K36:14	+TURRET2-DUPLOMATIC:P4-9				+Main circuit/98.4:D	+Main circuit/98.2:D	Conductor / wire
346	B1	+Main circuit-I/O2-K46:14				+Main circuit/99.4:D	+Main circuit/99.4:B	Conductor / wire
	B1	+Main circuit-TRM-N_TURRET:3				+Main circuit/99.4:D	+Main circuit/99.4:E	Conductor / wire
	B2	+Main circuit-TRM-N_TURRET:4				+Main circuit/99.4:D	+Main circuit/99.4:E	Conductor / wire
	+Main circuit-TRM-N_TURRET:4	+Main circuit-TRM-N_TURRET:41				+Main circuit/99.4:E	+Main circuit/99.4:E	Conductor / wire
	A1	+Main circuit-TRM-N_TURRET:7				+Main circuit/99.5:D	+Main circuit/99.5:E	Conductor / wire
	A2	+Main circuit-TRM-N_TURRET:8				+Main circuit/99.6:D	+Main circuit/99.6:E	Conductor / wire
	A3	+Main circuit-TRM-N_TURRET:9				+Main circuit/99.6:D	+Main circuit/99.6:E	Conductor / wire
	A4	+Main circuit-TRM-N_TURRET:10				+Main circuit/99.6:D	+Main circuit/99.6:E	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
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		Page	R2.zd
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	A5	+Main circuit-TRM-N_TURRET:6				+Main circuit/99.6:D	+Main circuit/99.6:E	Conductor / wire
	A6	+Main circuit-TRM-N_TURRET:1				+Main circuit/99.7:D	+Main circuit/99.7:E	Conductor / wire
	A7	+Main circuit-TRM-N_TURRET:11				+Main circuit/99.7:D	+Main circuit/99.7:E	Conductor / wire
	A8	+Main circuit-TRM-N_TURRET:5				+Main circuit/99.7:D	+Main circuit/99.7:E	Conductor / wire
	C1	+Main circuit-TRM-N_TURRET:U				+Main circuit/99.2:D	+Main circuit/99.2:E	Conductor / wire
	C2	+Main circuit-TRM-N_TURRET:V				+Main circuit/99.3:D	+Main circuit/99.2:E	Conductor / wire
	C3	+Main circuit-TRM-N_TURRET:W				+Main circuit/99.3:D	+Main circuit/99.2:E	Conductor / wire
	C4	+Main circuit-TRM-N_TURRET:PE				+Main circuit/99.3:D	+Main circuit/99.2:E	Conductor / wire
	A9	B2				+Main circuit/99.7:D	+Main circuit/99.4:D	Conductor / wire
	A9	+Main circuit-TRM-N_TURRET:2				+Main circuit/99.7:D	+Main circuit/99.7:E	Conductor / wire
	+Main circuit-I/O2-K46:13	+Main circuit-I/O2-K52:13				+Main circuit/100.6:B	+Main circuit/100.6:B	Conductor / wire
	+Main circuit-I/O2-K52:13	+Main circuit-I/O2-K53:13				+Main circuit/100.6:B	+Main circuit/100.7:B	Conductor / wire
	+Main circuit-I/O2-K53:13	+Main circuit-I/O2-K54:13				+Main circuit/100.7:B	+Main circuit/100.8:B	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:1	+Main circuit-LIO_SHIN_TURRET:1				+Main circuit/100.2:B	+Main circuit/100.3:B	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:2	+Main circuit-LIO_SHIN_TURRET:2				+Main circuit/100.2:B	+Main circuit/100.3:B	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:3	+Main circuit-LIO_SHIN_TURRET:3				+Main circuit/100.2:B	+Main circuit/100.3:B	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:4	+Main circuit-LIO_SHIN_TURRET:4				+Main circuit/100.2:B	+Main circuit/100.3:B	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:5	+Main circuit-LIO_SHIN_TURRET:5				+Main circuit/100.2:C	+Main circuit/100.3:C	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:6	+Main circuit-LIO_SHIN_TURRET:6				+Main circuit/100.2:C	+Main circuit/100.3:C	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:7	+Main circuit-LIO_SHIN_TURRET:7				+Main circuit/100.2:C	+Main circuit/100.3:C	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:8	+Main circuit-LIO_SHIN_TURRET:8				+Main circuit/100.2:C	+Main circuit/100.3:C	Conductor / wire
352	+Main circuit-I/O2-K52:14	+Main circuit-YV81:x1				+Main circuit/100.6:B	+Main circuit/100.6:E	Conductor / wire
353	+Main circuit-I/O2-K53:14	+Main circuit-YV82:x1				+Main circuit/100.7:B	+Main circuit/100.7:E	Conductor / wire
	+Main circuit-YV81:x2	+Main circuit-YV82:x2				+Main circuit/100.6:E	+Main circuit/100.7:E	Conductor / wire
354	+Main circuit-I/O2-K54:14	+Main circuit-YV83:x1				+Main circuit/100.8:B	+Main circuit/100.8:E	Conductor / wire
	+Main circuit-YV82:x2	+Main circuit-YV83:x2				+Main circuit/100.7:E	+Main circuit/100.8:E	Conductor / wire
346	+Main circuit-I/O2-K46:14	+Main circuit-YV80:x1				+Main circuit/100.6:B	+Main circuit/100.6:E	Conductor / wire
	+Main circuit-LIO_SHIN_TURRET:8	+Main circuit-YV80:x2				+Main circuit/100.3:C	+Main circuit/100.6:E	Conductor / wire
	+Main circuit-YV80:x2	+Main circuit-YV81:x2				+Main circuit/100.6:E	+Main circuit/100.6:E	Conductor / wire
	+Main circuit-HPxx_TURRET:16	+Main circuit-HPxx_TURRET:1				+Main circuit/101.2:B	+Main circuit/101.3:B	Conductor / wire
	+Main circuit-HPxx_TURRET:23	+Main circuit-HPxx_TURRET:2				+Main circuit/101.2:B	+Main circuit/101.3:B	Conductor / wire
	+Main circuit-HPxx_TURRET:20	+Main circuit-HPxx_TURRET:3				+Main circuit/101.2:B	+Main circuit/101.3:B	Conductor / wire
	+Main circuit-HPxx_TURRET:31	+Main circuit-HPxx_TURRET:4				+Main circuit/101.2:B	+Main circuit/101.3:B	Conductor / wire
	+Main circuit-HPxx_TURRET:36	+Main circuit-HPxx_TURRET:5				+Main circuit/101.2:C	+Main circuit/101.3:C	Conductor / wire
	+Main circuit-HPxx_TURRET:39	+Main circuit-HPxx_TURRET:6				+Main circuit/101.2:C	+Main circuit/101.3:C	Conductor / wire
	+Main circuit-HPxx_TURRET:43	+Main circuit-HPxx_TURRET:7				+Main circuit/101.2:C	+Main circuit/101.3:C	Conductor / wire
	+Main circuit-HPxx_TURRET:+ 24V	+Main circuit-HPxx_TURRET:8				+Main circuit/101.2:C	+Main circuit/101.3:C	Conductor / wire
	+Main circuit-YV81:x2	+Main circuit-YV82:x2				+Main circuit/101.6:E	+Main circuit/101.7:E	Conductor / wire
	+Main circuit-YV82:x2	+Main circuit-YV83:x2				+Main circuit/101.7:E	+Main circuit/101.8:E	Conductor / wire
	+Main circuit-YV80:x2	+Main circuit-YV81:x2				+Main circuit/101.6:E	+Main circuit/101.6:E	Conductor / wire
346	B1	+Main circuit-I/O2-K46:14				+Main circuit/102.4:D	+Main circuit/102.4:B	Conductor / wire
	B1	+Main circuit-TAN_TURRET				+Main circuit/102.4:D	+Main circuit/102.4:E	Conductor / wire
	B2	+Main circuit-TAN_TURRET				+Main circuit/102.4:D	+Main circuit/102.4:E	Conductor / wire
	A1	+Main circuit-TAN_TURRET				+Main circuit/102.5:D	+Main circuit/102.5:E	Conductor / wire
	A2	+Main circuit-TAN_TURRET				+Main circuit/102.6:D	+Main circuit/102.6:E	Conductor / wire
	A3	+Main circuit-TAN_TURRET				+Main circuit/102.6:D	+Main circuit/102.6:E	Conductor / wire
	A4	+Main circuit-TAN_TURRET				+Main circuit/102.6:D	+Main circuit/102.6:E	Conductor / wire
	A5	+Main circuit-TAN_TURRET				+Main circuit/102.6:D	+Main circuit/102.6:E	Conductor / wire
	A6	+Main circuit-TAN_TURRET				+Main circuit/102.7:D	+Main circuit/102.7:E	Conductor / wire
	A7	+Main circuit-TAN_TURRET				+Main circuit/102.7:D	+Main circuit/102.7:E	Conductor / wire
	A8	+Main circuit-TAN_TURRET				+Main circuit/102.7:D	+Main circuit/102.7:E	Conductor / wire
	C1	+Main circuit-TAN_TURRET:U				+Main circuit/102.2:D	+Main circuit/102.2:E	Conductor / wire
	C2	+Main circuit-TAN_TURRET:V				+Main circuit/102.3:D	+Main circuit/102.2:E	Conductor / wire
	C3	+Main circuit-TAN_TURRET:W				+Main circuit/102.3:D	+Main circuit/102.2:E	Conductor / wire
	C4	+Main circuit-TAN_TURRET:PE				+Main circuit/102.3:D	+Main circuit/102.2:E	Conductor / wire
	A9	B2				+Main circuit/102.7:D	+Main circuit/102.4:D	Conductor / wire
	A9	+Main circuit-TAN_TURRET				+Main circuit/102.7:D	+Main circuit/102.7:E	Conductor / wire



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Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page R2.ze
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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:5				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:6				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:7				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:8				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET:U	+Main circuit-E4_TURRET:1				+Main circuit/103.2:B	+Main circuit/103.3:B	Conductor / wire
	2	+Main circuit-E4_TURRET:V				+Main circuit/103.3:B	+Main circuit/103.2:B	Conductor / wire
	3	+Main circuit-E4_TURRET:W				+Main circuit/103.3:B	+Main circuit/103.2:B	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:4				+Main circuit/103.2:B	+Main circuit/103.3:B	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:PE				+Main circuit/103.2:B	+Main circuit/103.2:B	Internal
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:9				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET	+Main circuit-E4_TURRET:10				+Main circuit/103.2:C	+Main circuit/103.3:C	Conductor / wire
	+Main circuit-E4_TURRET:5	+Main circuit-K324:13				+Main circuit/103.3:C	+Main circuit/103.5:E	Conductor / wire
	+Main circuit-E4_TURRET:6	+Main circuit-K325:13				+Main circuit/103.3:C	+Main circuit/103.6:E	Conductor / wire
	+Main circuit-K324:14	+Main circuit-K325:14				+Main circuit/103.5:E	+Main circuit/103.6:E	Conductor / wire
	+Main circuit-E4_TURRET:7	+Main circuit-K326:13				+Main circuit/103.3:C	+Main circuit/103.6:E	Conductor / wire
	+Main circuit-K325:14	+Main circuit-K326:14				+Main circuit/103.6:E	+Main circuit/103.6:E	Conductor / wire
	+Main circuit-E4_TURRET:8	+Main circuit-K327:13				+Main circuit/103.3:C	+Main circuit/103.7:E	Conductor / wire
	+Main circuit-K326:14	+Main circuit-K327:14				+Main circuit/103.6:E	+Main circuit/103.7:E	Conductor / wire
	+Main circuit-E4_TURRET:10	+Main circuit-K327:14				+Main circuit/103.3:C	+Main circuit/103.7:E	Conductor / wire
	+Main circuit-K324:13	+Main circuit-K325:13				+Main circuit/103.5:A	+Main circuit/103.6:A	Conductor / wire
	+Main circuit-K325:13	+Main circuit-K326:13				+Main circuit/103.6:A	+Main circuit/103.6:A	Conductor / wire
	+Main circuit-K326:13	+Main circuit-K327:13				+Main circuit/103.6:A	+Main circuit/103.7:A	Conductor / wire
	+Main circuit-E4_TURRET:9	+Main circuit-K327:13				+Main circuit/103.3:C	+Main circuit/103.7:A	Conductor / wire
	+Main circuit-TSI3-PL1:2	+Main circuit-TSI3-PL1:5				+Main circuit/104.1:A	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-TSI3-PL1:4	+Main circuit-TSI3-PL1:5				+Main circuit/104.1:B	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-TSI3-PL1:3	+Main circuit-TSI3-PL1:5				+Main circuit/104.1:A	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-TSI3-PL1:6	+Main circuit-TSI3-PL1:17				+Main circuit/104.1:B	+Main circuit/104.1:C	Conductor / wire
	+Main circuit-TSI3-PL1:16	+Main circuit-TSI3-PL1:17				+Main circuit/104.1:C	+Main circuit/104.1:C	Conductor / wire
	+Main circuit-TSI3-PL1:15	+Main circuit-TSI3-PL1:17				+Main circuit/104.1:C	+Main circuit/104.1:C	Conductor / wire
	+Main circuit-TSI3-PL1:14	+Main circuit-TSI3-PL1:17				+Main circuit/104.1:C	+Main circuit/104.1:C	Conductor / wire
	+Main circuit-TSI3-PL1:1	+Main circuit-TSI3-PL1:22				+Main circuit/104.1:D	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:10	+Main circuit-TSI3-PL1:22				+Main circuit/104.1:D	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:9	+Main circuit-TSI3-PL1:22				+Main circuit/104.1:D	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:8	+Main circuit-TSI3-PL1:22				+Main circuit/104.1:D	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:23	+Main circuit-TSI3-PL1:25				+Main circuit/104.1:E	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:11	+Main circuit-TSI3-PL1:25				+Main circuit/104.1:E	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI3-PL1:13	+Main circuit-TSI3-PL1:25				+Main circuit/104.1:B	+Main circuit/104.1:D	Conductor / wire
801	+Main circuit-HPMA:BROWN	+Main circuit-TSI3-PL2:1				+Main circuit/104.3:E	+Main circuit/104.1:E	Conductor / wire
802	+Main circuit-HPMA:SCREEN	+Main circuit-TSI3-PL2:2				+Main circuit/104.3:E	+Main circuit/104.1:E	Conductor / wire
803	+Main circuit-HPMA:WHITE	+Main circuit-TSI3-PL2:3				+Main circuit/104.3:E	+Main circuit/104.1:E	Conductor / wire
804	+Main circuit-HPMA:BLACK	+Main circuit-TSI3-PL2:5				+Main circuit/104.3:F	+Main circuit/104.1:F	Conductor / wire
805	+Main circuit-HPMA:GREY	+Main circuit-TSI3-PL2:6				+Main circuit/104.3:F	+Main circuit/104.1:F	Conductor / wire
377	+Main circuit-K77:14	+Main circuit-TSI3-PL1:19				+Main circuit/104.2:B	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-K77:13	+Main circuit-K78:13				+Main circuit/104.2:B	+Main circuit/104.2:B	Conductor / wire
378	+Main circuit-K78:14	+Main circuit-TSI3-PL1:18				+Main circuit/104.2:B	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-TSI2-PL1:5	+Main circuit-TSI3-PL1:2				+Main circuit/104.5:D	+Main circuit/104.1:A	Conductor / wire
	+Main circuit-TSI2-PL1:4	+Main circuit-TSI2-PL1:5				+Main circuit/104.5:C	+Main circuit/104.5:D	Conductor / wire
	+Main circuit-TSI2-PL1:3	+Main circuit-TSI2-PL1:5				+Main circuit/104.5:C	+Main circuit/104.5:D	Conductor / wire
	+Main circuit-TSI2-PL1:2	+Main circuit-TSI2-PL1:5				+Main circuit/104.5:C	+Main circuit/104.5:D	Conductor / wire
800	+Main circuit-CNC-X3:4	+Main circuit-TSI2-PL1:5				+Main circuit/104.8:B	+Main circuit/104.5:D	Conductor / wire
	+Main circuit-TSI2-PL1:5	+Main circuit-TSI3-PL1:4				+Main circuit/104.5:D	+Main circuit/104.1:B	Conductor / wire
	+Main circuit-TSI2-PL1:5	+Main circuit-TSI3-PL1:3				+Main circuit/104.5:D	+Main circuit/104.1:A	Conductor / wire
	+Main circuit-TSI2-PL1:6	+Main circuit-TSI2-PL1:17				+Main circuit/104.5:D	+Main circuit/104.5:E	Conductor / wire
	+Main circuit-TSI2-PL1:16	+Main circuit-TSI2-PL1:17				+Main circuit/104.5:D	+Main circuit/104.5:E	Conductor / wire
	+Main circuit-TSI2-PL1:15	+Main circuit-TSI2-PL1:17				+Main circuit/104.5:D	+Main circuit/104.5:E	Conductor / wire
	+Main circuit-TSI2-PL1:14	+Main circuit-TSI2-PL1:17				+Main circuit/104.5:D	+Main circuit/104.5:E	Conductor / wire
	+Main circuit-TSI2-PL1:25	+Main circuit-TSI3-PL1:25				+Main circuit/104.5:E	+Main circuit/104.1:D	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
		Page	R2.zf
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-TSI2-PL1:13	+Main circuit-TSI2-PL1:25				+Main circuit/104.5:D	+Main circuit/104.5:E	Conductor / wire
	+Main circuit-CNC-X3:5	+Main circuit-TSI2-PL1:25				+Main circuit/104.8:B	+Main circuit/104.5:E	Conductor / wire
801	+Main circuit-HPPA/HPRA:BROWN	+Main circuit-TSI2-PL2:1				+Main circuit/104.7:E	+Main circuit/104.5:E	Conductor / wire
802	+Main circuit-HPPA/HPRA:SCREEN	+Main circuit-TSI2-PL2:2				+Main circuit/104.7:F	+Main circuit/104.5:F	Conductor / wire
803	+Main circuit-HPPA/HPRA:WHITE	+Main circuit-TSI2-PL2:3				+Main circuit/104.7:F	+Main circuit/104.5:F	Conductor / wire
140	+Main circuit-K76:14	+Main circuit-U16:5				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
140	+Main circuit-K74:14	+Main circuit-U16:5				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
140	+Main circuit-K75:14	+Main circuit-U16:5				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
374	+Main circuit-K74:13	+Main circuit-U16:6				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
375	+Main circuit-K75:13	+Main circuit-U16:7				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
376	+Main circuit-K76:13	+Main circuit-U16:8				+Main circuit/105.2:B	+Main circuit/105.2:B	Conductor / wire
	+Main circuit-U16:14	+Main circuit-U16:16				+Main circuit/105.2:C	+Main circuit/105.2:D	Conductor / wire
	+Main circuit-U16:14	+Main circuit-U16:18				+Main circuit/105.2:C	+Main circuit/105.2:D	Conductor / wire
	+Main circuit-U16:14	+Main circuit-U16:20				+Main circuit/105.2:C	+Main circuit/105.2:D	Conductor / wire
	+Main circuit-U16:14	+Main circuit-U16:22				+Main circuit/105.2:C	+Main circuit/105.2:E	Conductor / wire
	+Main circuit-U16:14	+Main circuit-U16:24				+Main circuit/105.2:C	+Main circuit/105.2:E	Conductor / wire
	+Main circuit-S9:11	+Main circuit-U16:21				+Main circuit/105.5:E	+Main circuit/105.6:E	Conductor / wire
	+Main circuit-S9:12	+Main circuit-U16:22				+Main circuit/105.5:E	+Main circuit/105.6:E	Conductor / wire
	21	+Main circuit-U16:23				+Main circuit/105.5:E	+Main circuit/105.6:E	Conductor / wire
	22	+Main circuit-U16:24				+Main circuit/105.5:E	+Main circuit/105.6:E	Conductor / wire
	+Main circuit-U16:4	+Main circuit-U16:5				+Main circuit/105.6:B	+Main circuit/105.6:B	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/105.1:F	+Main circuit/105.1:E	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/105.2:F	+Main circuit/105.2:E	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/105.5:F	+Main circuit/105.6:F	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/105.6:F	+Main circuit/105.6:F	Conductor / wire
	+Main circuit-S9:11	+Main circuit-U16:23				+Main circuit/106.1:E	+Main circuit/106.2:E	Conductor / wire
	+Main circuit-S9:12	+Main circuit-S9:21				+Main circuit/106.1:E	+Main circuit/106.1:E	Conductor / wire
	+Main circuit-S9:22	+Main circuit-U16:24				+Main circuit/106.1:E	+Main circuit/106.2:E	Conductor / wire
	+Main circuit-U16:12	+Main circuit-U16:20				+Main circuit/106.2:C	+Main circuit/106.2:D	Conductor / wire
	+Main circuit-U16:12	+Main circuit-U16:16				+Main circuit/106.2:C	+Main circuit/106.2:D	Conductor / wire
	+Main circuit-U16:12	+Main circuit-U16:18				+Main circuit/106.2:C	+Main circuit/106.2:D	Conductor / wire
350	+Main circuit-K50:13	+Main circuit-U16:7				+Main circuit/106.4:B	+Main circuit/106.2:B	Conductor / wire
164	+Main circuit-K50:14	+Main circuit-U16:6				+Main circuit/106.4:B	+Main circuit/106.2:B	Conductor / wire
351	+Main circuit-K51:13	+Main circuit-U16:8				+Main circuit/106.4:B	+Main circuit/106.2:B	Conductor / wire
164	+Main circuit-K51:14	+Main circuit-U16:6				+Main circuit/106.4:B	+Main circuit/106.2:B	Conductor / wire
352	+Main circuit-K52:13	+Main circuit-U16:9				+Main circuit/106.4:C	+Main circuit/106.2:C	Conductor / wire
164	+Main circuit-K52:14	+Main circuit-U16:6				+Main circuit/106.4:C	+Main circuit/106.2:B	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/106.2:F	+Main circuit/106.2:E	Conductor / wire
	PE	+Main circuit-U16:GND				+Main circuit/106.3:F	+Main circuit/106.2:E	Conductor / wire
342	+Main circuit-I/O2-K42:14	+Main circuit-YV2:x1				+Main circuit/107.1:B	+Main circuit/107.1:E	Conductor / wire
	+Main circuit-I/O2-K42:11	+Main circuit-I/O2-K43:11				+Main circuit/107.1:B	+Main circuit/107.8:B	Conductor / wire
343	+Main circuit-I/O2-K43:14	+Main circuit-YV1:x1				+Main circuit/107.8:B	+Main circuit/107.8:E	Conductor / wire
517	+Main circuit-A1:a2	+Main circuit-SQ51:BN				+Main circuit/107.3:C	+Main circuit/107.3:B	Conductor / wire
518	+Main circuit-A1:b2	+Main circuit-SQ51:BK				+Main circuit/107.3:C	+Main circuit/107.3:B	Conductor / wire
523	+Main circuit-A1:a3	+Main circuit-SQ51:GR				+Main circuit/107.3:C	+Main circuit/107.3:B	Conductor / wire
	+Main circuit-A1:N	+Main circuit-YV2:x2				+Main circuit/107.3:D	+Main circuit/107.1:E	Conductor / wire
	+Main circuit-A1:15	+Main circuit-A1:L1				+Main circuit/107.3:D	+Main circuit/107.2:D	Conductor / wire
	+Main circuit-A1:L1	+Main circuit-A2:L1				+Main circuit/107.2:D	+Main circuit/107.5:D	Conductor / wire
	+Main circuit-A1:N	+Main circuit-A2:N				+Main circuit/107.3:D	+Main circuit/107.6:D	Conductor / wire
	+Main circuit-A2:N	+Main circuit-YV1:x2				+Main circuit/107.6:D	+Main circuit/107.8:E	Conductor / wire
	+Main circuit-A2:15	+Main circuit-A2:L1				+Main circuit/107.6:D	+Main circuit/107.5:D	Conductor / wire
517	+Main circuit-A2:a2	+Main circuit-SQ52:BN				+Main circuit/107.6:C	+Main circuit/107.6:B	Conductor / wire
518	+Main circuit-A2:b2	+Main circuit-SQ52:BK				+Main circuit/107.6:C	+Main circuit/107.6:B	Conductor / wire
523	+Main circuit-A2:a3	+Main circuit-SQ52:GR				+Main circuit/107.6:C	+Main circuit/107.6:B	Conductor / wire
U2	+Main circuit-E4_TURRET:1	+Main circuit-KM2-1:2				+Main circuit/103.3:B	+Main circuit/21.1:B	Conductor / wire
U2	C1	+Main circuit-KM2-1:2				+Main circuit/99.2:D	+Main circuit/21.1:B	Conductor / wire
U2	C1	+Main circuit-KM2-1:2				+Main circuit/102.2:D	+Main circuit/21.1:B	Conductor / wire



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Drawing No.	L00-0091-100		Rev. 100
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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
V2	2	+Main circuit-KM2-1:4				+Main circuit/103.3:B	+Main circuit/21.2:B	Conductor / wire
V2	C2	+Main circuit-KM2-1:4				+Main circuit/99.3:D	+Main circuit/21.2:B	Conductor / wire
V2	C2	+Main circuit-KM2-1:4				+Main circuit/102.3:D	+Main circuit/21.2:B	Conductor / wire
W2	3	+Main circuit-KM2-1:6				+Main circuit/103.3:B	+Main circuit/21.2:B	Conductor / wire
W2	C3	+Main circuit-KM2-1:6				+Main circuit/99.3:D	+Main circuit/21.2:B	Conductor / wire
W2	C3	+Main circuit-KM2-1:6				+Main circuit/102.3:D	+Main circuit/21.2:B	Conductor / wire
44	+Main circuit-F16:2	+Main circuit-U16:1				+Main circuit/21.5:A	+Main circuit/105.2:A	Conductor / wire
44	+Main circuit-F16:2	+Main circuit-U16:1				+Main circuit/21.5:A	+Main circuit/105.6:A	Conductor / wire
45	+Main circuit-F16:4	+Main circuit-U16:2				+Main circuit/21.5:A	+Main circuit/105.2:A	Conductor / wire
45	+Main circuit-F16:4	+Main circuit-U16:2				+Main circuit/21.5:A	+Main circuit/105.6:A	Conductor / wire
44	+Main circuit-F16*:2	+Main circuit-U16:1				+Main circuit/21.6:A	+Main circuit/106.2:A	Conductor / wire
45	+Main circuit-F16*:4	+Main circuit-U16:2				+Main circuit/21.6:A	+Main circuit/106.2:A	Conductor / wire
46	+Main circuit-F16*:6	+Main circuit-U16:3				+Main circuit/21.6:A	+Main circuit/106.2:B	Conductor / wire
PE	PE	+Main circuit-E4_TURRET:4				+Main circuit/21.2:C	+Main circuit/103.3:B	Conductor / wire
PE	PE	C4				+Main circuit/21.2:C	+Main circuit/99.3:D	Conductor / wire
PE	PE	C4				+Main circuit/21.2:C	+Main circuit/102.3:D	Conductor / wire
95	+Main circuit-S8:12	+Main circuit-U16:21				+Main circuit/26.4:C	+Main circuit/105.6:E	Conductor / wire
96	+Main circuit-S10:11	+Main circuit-U16:22				+Main circuit/26.4:D	+Main circuit/105.6:E	Conductor / wire
215	+Main circuit-S8:22	+Main circuit-U16:23				+Main circuit/26.4:C	+Main circuit/105.6:E	Conductor / wire
216	+Main circuit-S10:21	+Main circuit-U16:24				+Main circuit/26.4:D	+Main circuit/105.6:E	Conductor / wire
3100	+Main circuit-MPG:17	+Main circuit-SB23:14				+Main circuit/90.5:E	+Main circuit/29.4:B	Conductor / wire
3101	+Main circuit-MPG:19	+Main circuit-SB23:24				+Main circuit/90.5:E	+Main circuit/29.5:B	Conductor / wire
DCH1	+Main circuit-K68:11	+Main circuit-U16:20				+Main circuit/41.4:B	+Main circuit/106.2:D	Conductor / wire
DCH1	+Main circuit-K68:11	+Main circuit-U16:18				+Main circuit/41.4:B	+Main circuit/106.2:D	Conductor / wire
DCH1	+Main circuit-K68:11	+Main circuit-U16:16				+Main circuit/41.4:B	+Main circuit/106.2:D	Conductor / wire
DCH1E	+Main circuit-I/O2-K46:11	+Main circuit-K87:11				+Main circuit/96.2:B	+Main circuit/42.6:B	Conductor / wire
178	+Main circuit-I/O2:27	+Main circuit-MPG:10				+Main circuit/47.5:D	+Main circuit/90.5:C	Conductor / wire
177	+Main circuit-I/O2:8	+Main circuit-MPG:8				+Main circuit/47.4:D	+Main circuit/90.5:C	Conductor / wire
176	+Main circuit-I/O2:26	+Main circuit-MPG:7				+Main circuit/47.4:D	+Main circuit/90.5:C	Conductor / wire
179	+Main circuit-I/O2:9	+Main circuit-MPG:11				+Main circuit/47.6:D	+Main circuit/90.5:C	Conductor / wire
191	+Main circuit-I/O2:15	+Main circuit-MPG:9				+Main circuit/49.3:D	+Main circuit/90.5:C	Conductor / wire
196	+Main circuit-I/O2:36	+TURRET2-DUPLOMATIC:P3-2				+Main circuit/49.6:D	+Main circuit/98.2:C	Conductor / wire
196	+Main circuit-I/O2:36	+Main circuit-LIO_SHIN_TURRET:6				+Main circuit/49.6:D	+Main circuit/100.3:C	Conductor / wire
196	+Main circuit-HPxx_TURRET:6	+Main circuit-I/O2:36				+Main circuit/101.3:C	+Main circuit/49.6:D	Conductor / wire
196	A5	+Main circuit-I/O2:36				+Main circuit/99.6:D	+Main circuit/49.6:D	Conductor / wire
196	A7	+Main circuit-I/O2:36				+Main circuit/102.7:D	+Main circuit/49.6:D	Conductor / wire
197	+Main circuit-I/O2:14	+TURRET2-DUPLOMATIC:P3-3				+Main circuit/50.2:D	+Main circuit/98.2:C	Conductor / wire
197	+Main circuit-I/O2:14	+Main circuit-LIO_SHIN_TURRET:5				+Main circuit/50.2:D	+Main circuit/100.3:C	Conductor / wire
197	+Main circuit-HPxx_TURRET:5	+Main circuit-I/O2:14				+Main circuit/101.3:C	+Main circuit/50.2:D	Conductor / wire
197	A8	+Main circuit-I/O2:14				+Main circuit/99.7:D	+Main circuit/50.2:D	Conductor / wire
198	A8	+Main circuit-I/O2:33				+Main circuit/102.7:D	+Main circuit/50.2:D	Conductor / wire
199	+Main circuit-I/O2:15	+TURRET2-DUPLOMATIC:P3-4				+Main circuit/50.3:D	+Main circuit/98.2:C	Conductor / wire
199	+Main circuit-I/O2:15	+Main circuit-LIO_SHIN_TURRET:1				+Main circuit/50.3:D	+Main circuit/100.3:B	Conductor / wire
199	+Main circuit-HPxx_TURRET:1	+Main circuit-I/O2:15				+Main circuit/101.3:B	+Main circuit/50.3:D	Conductor / wire
199	+Main circuit-I/O2:15	+Main circuit-K117:5				+Main circuit/50.3:D	+Main circuit/96.3:B	Conductor / wire
199	A1	+Main circuit-I/O2:15				+Main circuit/99.5:D	+Main circuit/50.3:D	Conductor / wire
199	A1	+Main circuit-I/O2:15				+Main circuit/102.5:D	+Main circuit/50.3:D	Conductor / wire
199	+Main circuit-I/O2:15	+Main circuit-K324:14				+Main circuit/50.3:D	+Main circuit/103.5:A	Conductor / wire
200	+Main circuit-I/O2:34	+TURRET2-DUPLOMATIC:P3-5				+Main circuit/50.4:D	+Main circuit/98.2:B	Conductor / wire
200	+Main circuit-I/O2:34	+Main circuit-LIO_SHIN_TURRET:2				+Main circuit/50.4:D	+Main circuit/100.3:B	Conductor / wire
200	+Main circuit-HPxx_TURRET:2	+Main circuit-I/O2:34				+Main circuit/101.3:B	+Main circuit/50.4:D	Conductor / wire
200	+Main circuit-I/O2:34	+Main circuit-K118:5				+Main circuit/50.4:D	+Main circuit/96.4:B	Conductor / wire
200	A2	+Main circuit-I/O2:34				+Main circuit/99.6:D	+Main circuit/50.4:D	Conductor / wire
200	A2	+Main circuit-I/O2:34				+Main circuit/102.6:D	+Main circuit/50.4:D	Conductor / wire
200	+Main circuit-I/O2:34	+Main circuit-K325:14				+Main circuit/50.4:D	+Main circuit/103.6:A	Conductor / wire
201	+Main circuit-I/O2:16	+TURRET2-DUPLOMATIC:P3-6				+Main circuit/50.4:D	+Main circuit/98.2:B	Conductor / wire
201	+Main circuit-I/O2:16	+Main circuit-LIO_SHIN_TURRET:3				+Main circuit/50.4:D	+Main circuit/100.3:B	Conductor / wire



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Drawing No.	L00-0091-100		Rev. 100
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Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
		+Main circuit-TSI3-PL1				+Main circuit/104.2:E	+Main circuit/104.2:E	Conductor / wire
		+Main circuit-TSI2-PL1				+Main circuit/104.6:E	+Main circuit/104.5:E	Conductor / wire
196	B4	+Main circuit-I/O2:36				+Main circuit/94.5:D	+Main circuit/49.6:D	Conductor / wire
198	B3	+Main circuit-I/O2:33				+Main circuit/94.4:D	+Main circuit/50.2:D	Conductor / wire
201	+Main circuit-HPxx_TURRET:7	+Main circuit-I/O2:16				+Main circuit/101.3:C	+Main circuit/50.4:D	Conductor / wire
	+Main circuit-YV80:x2	+Main circuit-YV83:x2				+Main circuit/101.6:E	+Main circuit/100.8:E	Conductor / wire
346	+Main circuit-I/O2-K46:14	+Main circuit-YV80:x1				+Main circuit/101.6:B	+Main circuit/101.6:E	Conductor / wire
	+Main circuit-I/O2-K46:13	+Main circuit-I/O2-K52:13				+Main circuit/101.6:B	+Main circuit/101.6:B	Conductor / wire
352	+Main circuit-I/O2-K52:14	+Main circuit-YV81:x1				+Main circuit/101.6:B	+Main circuit/101.6:E	Conductor / wire
	+Main circuit-I/O2-K52:13	+Main circuit-I/O2-K53:13				+Main circuit/101.6:B	+Main circuit/101.7:B	Conductor / wire
353	+Main circuit-I/O2-K53:14	+Main circuit-YV82:x1				+Main circuit/101.7:B	+Main circuit/101.7:E	Conductor / wire
	+Main circuit-I/O2-K53:13	+Main circuit-I/O2-K54:13				+Main circuit/101.7:B	+Main circuit/101.8:B	Conductor / wire
354	+Main circuit-I/O2-K54:14	+Main circuit-YV83:x1				+Main circuit/101.8:B	+Main circuit/101.8:E	Conductor / wire
	+Main circuit-I/O2-K46:13	+Main circuit-I/O2-K54:13				+Main circuit/101.6:B	+Main circuit/101.8:B	Conductor / wire
247	+Main circuit-RIO1-X7:7	+Main circuit-TSI3-PL1:7				+Main circuit/53.3:E	+Main circuit/104.1:C	Conductor / wire
247	+Main circuit-RIO1-X7:7	+Main circuit-TSI2-PL1:7				+Main circuit/53.3:E	+Main circuit/104.5:E	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI3-PL1:6				+Main circuit/53.4:E	+Main circuit/104.1:B	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI3-PL1:14				+Main circuit/53.4:E	+Main circuit/104.1:C	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI3-PL1:15				+Main circuit/53.4:E	+Main circuit/104.1:C	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI3-PL1:16				+Main circuit/53.4:E	+Main circuit/104.1:C	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI2-PL1:6				+Main circuit/53.4:E	+Main circuit/104.5:D	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI2-PL1:14				+Main circuit/53.4:E	+Main circuit/104.5:D	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI2-PL1:15				+Main circuit/53.4:E	+Main circuit/104.5:D	Conductor / wire
248	+Main circuit-RIO1-X7:8	+Main circuit-TSI2-PL1:16				+Main circuit/53.4:E	+Main circuit/104.5:D	Conductor / wire
374	+Main circuit-K74:13	+Main circuit-U16:7				+Main circuit/105.7:B	+Main circuit/105.6:B	Conductor / wire
140	+Main circuit-K74:14	+Main circuit-U16:6				+Main circuit/105.7:B	+Main circuit/105.6:B	Conductor / wire
375	+Main circuit-K75:13	+Main circuit-U16:8				+Main circuit/105.7:B	+Main circuit/105.6:B	Conductor / wire
140	+Main circuit-K75:14	+Main circuit-U16:6				+Main circuit/105.7:B	+Main circuit/105.6:B	Conductor / wire
376	+Main circuit-K76:13	+Main circuit-U16:9				+Main circuit/105.7:C	+Main circuit/105.6:C	Conductor / wire
140	+Main circuit-K76:14	+Main circuit-U16:6				+Main circuit/105.7:C	+Main circuit/105.6:B	Conductor / wire
184	+Main circuit-A2:18	+Main circuit-I/O2:30				+Main circuit/107.6:D	+Main circuit/48.4:D	Conductor / wire
183	+Main circuit-A1:18	+Main circuit-I/O2:11				+Main circuit/107.3:D	+Main circuit/48.3:D	Conductor / wire
	+Main circuit-SQ10:2	+Main circuit-SQ11:2				+Main circuit/48.3:B	+Main circuit/48.4:B	Conductor / wire
	+Main circuit-CNC-OUT	+Main circuit-U4S2:IN				+Main circuit/5.2:B	+Main circuit/7.2:D	Conductor / wire
	+Main circuit-CNC-OUT	+Main circuit-U4S2:IN				+Main circuit/5.2:B	+Main circuit/8.2:D	Conductor / wire
	+Main circuit-CNC-OUT	+Main circuit-U4S2:IN				+Main circuit/5.2:B	+Main circuit/9.2:D	Conductor / wire
	+Main circuit-CNC-CAN_I/O	+Main circuit-CNC-CAN_I/O				+Main circuit/5.3:B	+Main circuit/6.3:B	Conductor / wire
	+Main circuit-CNC-X4	+Main circuit-ENCODER				+Main circuit/6.3:D	+Main circuit/10.6:A	Conductor / wire
	+Main circuit-U4-X2	+Main circuit-U4S-X2				+Main circuit/8.7:E	+Main circuit/8.7:E	Conductor / wire
	+Main circuit-U4S-X2	+Main circuit-U4X-X2				+Main circuit/8.7:E	+Main circuit/8.5:E	Conductor / wire
	+Main circuit-CNC-CAN_AXES:CAN H	+Main circuit-U4Z*:CAN H				+Main circuit/11.2:B	+Main circuit/11.5:C	Conductor / wire
	+Main circuit-CNC-CAN_AXES:CAN L	+Main circuit-U4Z*:CAN L				+Main circuit/11.2:B	+Main circuit/11.5:C	Conductor / wire
	+Main circuit-U4X*:CAN H	+Main circuit-U4Z*:CAN H				+Main circuit/11.6:C	+Main circuit/11.5:C	Conductor / wire
	+Main circuit-U4X*:CAN L	+Main circuit-U4Z*:CAN L				+Main circuit/11.6:C	+Main circuit/11.5:C	Conductor / wire
	+Main circuit-U4S*:CAN L	+Main circuit-U4X*:CAN L				+Main circuit/11.7:C	+Main circuit/11.6:C	Conductor / wire
	+Main circuit-U4S*:CAN H	+Main circuit-U4X*:CAN H				+Main circuit/11.7:C	+Main circuit/11.6:C	Conductor / wire
	+Main circuit-CNC-CAN_I/O:CAN H	+Main circuit-RIO1:CAN H				+Main circuit/12.3:B	+Main circuit/12.5:D	Conductor / wire
	+Main circuit-CNC-CAN_I/O:CAN L	+Main circuit-RIO1:CAN L				+Main circuit/12.2:B	+Main circuit/12.5:D	Conductor / wire
DCN1	+Main circuit-SQ24:2	+Main circuit-SQ29:2				+Main circuit/51.7:B	+Main circuit/51.2:B	Conductor / wire
DCH1	+Main circuit-SB12:13	+OPT7-Q62				+Main circuit/51.7:B	+Main circuit/51.3:B	Conductor / wire
234	+Main circuit-M22:12	+Main circuit-RIO1-X6:6				+Main circuit/20.2:E	+Main circuit/51.6:E	Conductor / wire
111	+Main circuit-I/O1:15	+Main circuit-MO:18				+Main circuit/45.3:D	+Main circuit/15.7:E	Conductor / wire
186	+Main circuit-M22	+Main circuit-RIO1-X6:6				+Main circuit/15.5:E	+Main circuit/51.6:E	Conductor / wire
DCH1	+Main circuit-M22	+Main circuit-MO:15				+Main circuit/15.5:E	+Main circuit/15.7:E	Conductor / wire
DCH1	+Main circuit-M22	+Main circuit-X54:4				+Main circuit/15.5:E	+Main circuit/15.4:D	Conductor / wire
	+Main circuit-KM30**:A1	+Main circuit-KT:B1				+Main circuit/36.6:E	+Main circuit/36.7:E	Conductor / wire
	+Main circuit-KM30**:A2	+Main circuit-KT:A1				+Main circuit/36.6:E	+Main circuit/36.7:E	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.zj
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
136	+Main circuit-DINA_1:24	+Main circuit-MPG:12				+Main circuit/31.5:C	+Main circuit/90.5:E	Conductor / wire
136	+Main circuit-E-STOP:O2-2	+Main circuit-KT:B1				+Main circuit/35.4:D	+Main circuit/36.7:E	Conductor / wire
DCN1	+Main circuit-KT:A1	+Main circuit-KW:13				+Main circuit/36.7:E	+Main circuit/39.5:E	Conductor / wire
136	+Main circuit-KM30:A1	+Main circuit-MPG:12				+Main circuit/36.2:E	+Main circuit/90.5:E	Conductor / wire
136	+Main circuit-DINA_1:24	+Main circuit-I/O2-K4:13				+Main circuit/31.5:C	+Main circuit/37.2:C	Conductor / wire
136	+Main circuit-DINA_1:24	+Main circuit-I/O2-K5:13				+Main circuit/31.5:C	+Main circuit/37.2:C	Conductor / wire
136	+Main circuit-I/O2-K4:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/77.6:C	Conductor / wire
136	+Main circuit-I/O2-K5:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/77.6:C	Conductor / wire
	+Main circuit-SF4:13	+Main circuit-SF5:13				+Main circuit/54.7:B	+Main circuit/54.7:B	Conductor / wire
	+Main circuit-SF6:13	+Main circuit-SQ45:13				+Main circuit/55.2:B	+Main circuit/55.3:B	Conductor / wire
DCN1	+Main circuit-YV50:x2	+Main circuit-YV50:x2				+Main circuit/96.2:E	+Main circuit/96.2:E	Conductor / wire
	A7	+Main circuit-I/O2-K46:13				+Main circuit/99.7:D	+Main circuit/99.4:B	Conductor / wire
	A5	+Main circuit-I/O2-K46:13				+Main circuit/102.6:D	+Main circuit/102.4:B	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-TSI3-PL1:1				+Main circuit/104.5:E	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-TSI3-PL1:10				+Main circuit/104.5:E	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-TSI3-PL1:9				+Main circuit/104.5:E	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-TSI3-PL1:8				+Main circuit/104.5:E	+Main circuit/104.1:D	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/76.1:B	+Main circuit/76.2:B	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/76.1:B	+Main circuit/76.2:B	Conductor / wire
	PE	+Main circuit-U4				+Main circuit/76.6:C	+Main circuit/76.6:B	Conductor / wire
129	+Main circuit-F3:1	+Main circuit-U4:24V				+Main circuit/18.5:D	+Main circuit/76.5:B	Conductor / wire
	+Main circuit-U4:L+	+Main circuit-U4:Re				+Main circuit/76.7:B	+Main circuit/76.6:B	Conductor / wire
L11E	+Main circuit-U4:L1	+Main circuit-U4:L1				+Main circuit/75.2:B	+Main circuit/76.2:B	Conductor / wire
L21E	+Main circuit-U4:L2	+Main circuit-U4:L2				+Main circuit/75.3:B	+Main circuit/76.3:B	Conductor / wire
141	+Main circuit-U4X*-X2:3	+Main circuit-U4X*-X2:6				+Main circuit/79.4:D	+Main circuit/79.5:D	Conductor / wire
PE	PE	+Main circuit-U4X*-X3				+Main circuit/79.6:E	+Main circuit/79.6:D	Conductor / wire
L11E	+Main circuit-U4:L1	+Main circuit-U4X*-X3:L1				+Main circuit/77.2:B	+Main circuit/79.6:D	Conductor / wire
L21E	+Main circuit-U4:L2	+Main circuit-U4X*-X3:L2				+Main circuit/77.2:B	+Main circuit/79.7:D	Conductor / wire
		+Main circuit-U4X*:26				+Main circuit/79.3:C	+Main circuit/79.4:C	Conductor / wire
		+Main circuit-U4X*:26				+Main circuit/79.2:C	+Main circuit/79.4:C	Conductor / wire
		+Main circuit-U4X*				+Main circuit/79.4:B	+Main circuit/79.4:C	Conductor / wire
	+Main circuit-MX*	+Main circuit-MX*:9				+Main circuit/79.4:A	+Main circuit/79.4:A	Conductor / wire
		+Main circuit-MX*:9				+Main circuit/79.4:B	+Main circuit/79.4:A	Conductor / wire
	+Main circuit-U4X*:L+	+Main circuit-U4X*:Ri				+Main circuit/79.1:D	+Main circuit/79.1:D	Conductor / wire
PE	PE	+Main circuit-U4X*-POWER:PE				+Main circuit/79.8:A	+Main circuit/79.7:C	Conductor / wire
		+Main circuit-MX*:3				+Main circuit/79.5:B	+Main circuit/79.5:A	Conductor / wire
143	+Main circuit-U4Z*-X2:3	+Main circuit-U4Z*-X2:6				+Main circuit/81.4:D	+Main circuit/81.5:D	Conductor / wire
	+Main circuit-U4Z*:L+	+Main circuit-U4Z*:Ri				+Main circuit/81.1:D	+Main circuit/81.1:D	Conductor / wire
	+Main circuit-MZ*	+Main circuit-MZ*:9				+Main circuit/81.4:A	+Main circuit/81.4:A	Conductor / wire
PE	PE	+Main circuit-U4Z*-X3				+Main circuit/81.6:E	+Main circuit/81.6:D	Conductor / wire
PE	PE	+Main circuit-U4Z*-POWER:PE				+Main circuit/81.8:A	+Main circuit/81.7:C	Conductor / wire
		+Main circuit-U4Z*:26				+Main circuit/81.3:C	+Main circuit/81.4:C	Conductor / wire
		+Main circuit-U4Z*:26				+Main circuit/81.2:C	+Main circuit/81.4:C	Conductor / wire
		+Main circuit-U4Z*				+Main circuit/81.4:B	+Main circuit/81.4:C	Conductor / wire
		+Main circuit-MZ*:9				+Main circuit/81.4:B	+Main circuit/81.4:A	Conductor / wire
		+Main circuit-MZ*:3				+Main circuit/81.5:B	+Main circuit/81.5:A	Conductor / wire
3014	+Main circuit-U4S*-X7:1	+Main circuit-U4Z-X7:2				+Main circuit/83.4:B	+Main circuit/80.6:B	Conductor / wire
		+Main circuit-U4S*-X4:26				+Main circuit/83.3:C	+Main circuit/83.4:B	Conductor / wire
		+Main circuit-U4S*-X4:26				+Main circuit/83.3:C	+Main circuit/83.4:B	Conductor / wire
		+Main circuit-U4S*-X4:26				+Main circuit/83.2:C	+Main circuit/83.4:B	Conductor / wire
		+Main circuit-U4S*-X4				+Main circuit/83.4:D	+Main circuit/83.4:B	Conductor / wire
		+Main circuit-MS*:10				+Main circuit/83.4:D	+Main circuit/83.4:E	Conductor / wire
	+Main circuit-MS*	+Main circuit-MS*:10				+Main circuit/83.4:D	+Main circuit/83.4:E	Conductor / wire
143	+Main circuit-U4S*-X2:5	+Main circuit-U4S*-X2:6				+Main circuit/83.6:B	+Main circuit/83.6:B	Conductor / wire
L11E	+Main circuit-U4S*-X1:L1	+Main circuit-U4Z*-X3:L1				+Main circuit/83.7:B	+Main circuit/81.6:D	Conductor / wire
L21E	+Main circuit-U4S*-X1:L2	+Main circuit-U4Z*-X3:L2				+Main circuit/83.7:B	+Main circuit/81.7:D	Conductor / wire
78	+Main circuit-R1:x1	+Main circuit-U4S*:Re				+Main circuit/83.8:E	+Main circuit/83.8:B	Conductor / wire



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Drawing No.	L00-0091-100		
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		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
77	+Main circuit-R1:x2	+Main circuit-U4S*:L+				+Main circuit/83.8:E	+Main circuit/83.8:B	Conductor / wire
PE	PE	+Main circuit-U4S*:X1				+Main circuit/83.7:C	+Main circuit/83.7:B	Conductor / wire
	+Main circuit-F101:1	+Main circuit-F101*:1				+Main circuit/14.2:A	+Main circuit/14.7:A	Conductor / wire
	+Main circuit-F101:3	+Main circuit-F101*:3				+Main circuit/14.2:A	+Main circuit/14.7:A	Conductor / wire
	+Main circuit-F101:5	+Main circuit-F101*:5				+Main circuit/14.2:A	+Main circuit/14.7:A	Conductor / wire
L12	+Main circuit-F101*:2	+Main circuit-KM101*:1				+Main circuit/14.7:A	+Main circuit/14.7:B	Conductor / wire
L22	+Main circuit-F101*:4	+Main circuit-KM101*:3				+Main circuit/14.7:A	+Main circuit/14.7:B	Conductor / wire
L32	+Main circuit-F101*:6	+Main circuit-KM101*:5				+Main circuit/14.7:A	+Main circuit/14.7:B	Conductor / wire
	+Main circuit-F9:1	+Main circuit-F101*:1				+Main circuit/15.1:B	+Main circuit/14.7:A	Conductor / wire
	+Main circuit-F9:3	+Main circuit-F101*:3				+Main circuit/15.1:B	+Main circuit/14.7:A	Conductor / wire
	+Main circuit-F9:5	+Main circuit-F101*:5				+Main circuit/15.1:B	+Main circuit/14.7:A	Conductor / wire
L13	+Main circuit-KM101*:2	+Main circuit-U4X*-POWER:L1				+Main circuit/14.7:B	+Main circuit/79.7:D	Conductor / wire
L23	+Main circuit-KM101*:4	+Main circuit-U4X*-POWER:L2				+Main circuit/14.7:B	+Main circuit/79.7:D	Conductor / wire
L33	+Main circuit-KM101*:6	+Main circuit-U4X*-POWER:L3				+Main circuit/14.7:B	+Main circuit/79.7:D	Conductor / wire
L13	+Main circuit-KM101*:2	+Main circuit-U4Z*-POWER:L1				+Main circuit/14.7:B	+Main circuit/81.7:D	Conductor / wire
L23	+Main circuit-KM101*:4	+Main circuit-U4Z*-POWER:L2				+Main circuit/14.7:B	+Main circuit/81.7:D	Conductor / wire
L33	+Main circuit-KM101*:6	+Main circuit-U4Z*-POWER:L3				+Main circuit/14.7:B	+Main circuit/81.7:D	Conductor / wire
	+Main circuit-KM101*:2	+Main circuit-U4S*-POWER:R				+Main circuit/14.7:B	+Main circuit/83.2:A	Conductor / wire
	+Main circuit-KM101*:4	+Main circuit-U4S*-POWER:S				+Main circuit/14.7:B	+Main circuit/83.2:A	Conductor / wire
	+Main circuit-KM101*:6	+Main circuit-U4S*-POWER:T				+Main circuit/14.7:B	+Main circuit/83.2:A	Conductor / wire
3015	+Main circuit-U4S-X7:2	+Main circuit-U4S2-X7:1				+Main circuit/82.6:B	+Main circuit/85.6:B	Conductor / wire
3015	+Main circuit-U4S2-X7:1	+Main circuit-U4S*-X7:2				+Main circuit/85.6:B	+Main circuit/83.5:B	Conductor / wire
	+Main circuit-MX	+Main circuit-MX:9				+Main circuit/78.4:D	+Main circuit/78.4:D	Conductor / wire
	+Main circuit-MZ	+Main circuit-MZ:9				+Main circuit/80.4:D	+Main circuit/80.4:D	Conductor / wire
	+Main circuit-MS	+Main circuit-MS:10				+Main circuit/82.4:D	+Main circuit/82.4:D	Conductor / wire
	+Main circuit-MS	+Main circuit-MS:9				+Main circuit/84.4:D	+Main circuit/84.4:D	Conductor / wire
	+Main circuit-MS2	+Main circuit-MS2:10				+Main circuit/85.4:D	+Main circuit/85.4:D	Conductor / wire
		+Main circuit-CNC-X5:15				+Main circuit/89.3:C	+Main circuit/89.3:E	Conductor / wire
DCH1	+Main circuit-MPG:18	+Main circuit-U17:24V				+Main circuit/90.5:E	+Main circuit/91.3:E	Conductor / wire
DCN1	+Main circuit-MPG:20	+Main circuit-U17:0V				+Main circuit/90.5:F	+Main circuit/91.3:E	Conductor / wire
								Conductor / wire
								Conductor / wire
176	+Main circuit-MPG:7	+Main circuit-U17:KX				+Main circuit/90.5:C	+Main circuit/91.3:E	Conductor / wire
177	+Main circuit-MPG:8	+Main circuit-U17:KZ				+Main circuit/90.5:C	+Main circuit/91.4:E	Conductor / wire
DCH1	+Main circuit-I/O2-K46	+Main circuit-U4T-PE:+ 24V				+Main circuit/93.3:F	+Main circuit/92.3:B	Conductor / wire
DCN1		+Main circuit-U4T-PE:0P				+Main circuit/94.4:D	+Main circuit/92.3:B	Conductor / wire
	B1	+Main circuit-I/O2-K46				+Main circuit/94.4:D	+Main circuit/93.3:F	Conductor / wire
DCH1	+Main circuit-K117:14	+Main circuit-K121:14				+Main circuit/95.7:A	+Main circuit/95.5:A	Conductor / wire
DCH1	+Main circuit-K117:9	+Main circuit-K121:9				+Main circuit/96.3:B	+Main circuit/96.6:B	Conductor / wire
DCH1	+Main circuit-I/O2-K34:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:C	+Main circuit/99.4:B	Conductor / wire
293	+Main circuit-I/O2-K46:13	+TURRET2-DUPLOMATIC:P4-8				+Main circuit/99.4:B	+Main circuit/98.2:E	Conductor / wire
292	+Main circuit-I/O2-K46:13	+TURRET2-DUPLOMATIC:P4-7				+Main circuit/99.4:B	+Main circuit/98.2:E	Conductor / wire
DCH1	+Main circuit-I/O2-K36:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K37:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K38:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K35:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K22:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K23:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:D	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K24:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:C	+Main circuit/99.4:B	Conductor / wire
DCH1	+Main circuit-I/O2-K33:13	+Main circuit-I/O2-K46:13				+Main circuit/98.4:C	+Main circuit/99.4:B	Conductor / wire
	A7	+Main circuit-LIO_SHIN_TURRET:7				+Main circuit/99.7:D	+Main circuit/100.3:C	Conductor / wire
	+Main circuit-HPxx_TURRET:8	+Main circuit-LIO_SHIN_TURRET:7				+Main circuit/101.3:C	+Main circuit/100.3:C	Conductor / wire
DCH1	+Main circuit-HPxx_TURRET:8	+Main circuit-I/O2-K46:13				+Main circuit/101.3:C	+Main circuit/102.4:B	Conductor / wire
	A5	+Main circuit-K324:13				+Main circuit/102.6:D	+Main circuit/103.5:A	Conductor / wire
DCH1	+Main circuit-E4_TURRET:9	+Main circuit-TSI3-PL1:1				+Main circuit/103.3:C	+Main circuit/104.1:D	Conductor / wire
DCH1	+Main circuit-E4_TURRET:9	+Main circuit-TSI3-PL1:8				+Main circuit/103.3:C	+Main circuit/104.1:D	Conductor / wire



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Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
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		Rev.	100
		Page	R2.zl
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
DCH1	+Main circuit-E4_TURRET:9	+Main circuit-TSI3-PL1:9				+Main circuit/103.3:C	+Main circuit/104.1:D	Conductor / wire
DCH1	+Main circuit-E4_TURRET:9	+Main circuit-TSI3-PL1:10				+Main circuit/103.3:C	+Main circuit/104.1:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-U16:24				+Main circuit/104.5:E	+Main circuit/105.2:E	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-U16:22				+Main circuit/104.5:E	+Main circuit/105.2:E	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-U16:20				+Main circuit/104.5:E	+Main circuit/105.2:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-U16:18				+Main circuit/104.5:E	+Main circuit/105.2:D	Conductor / wire
	+Main circuit-TSI2-PL1:1	+Main circuit-U16:16				+Main circuit/104.5:E	+Main circuit/105.2:D	Conductor / wire
DCH1	+Main circuit-A1:L1	+Main circuit-U16:11				+Main circuit/107.2:D	+Main circuit/105.6:C	Conductor / wire
DCN1	+Main circuit-SQ24:2	+Main circuit-SQ29:2				+Main circuit/51.7:B	+Main circuit/51.2:B	Conductor / wire
		+Main circuit-RIO1:SHIELD				+Main circuit/12.5:D	+Main circuit/12.5:D	Conductor / wire
		+Main circuit-CNC-CAN_I/O:SHIELD				+Main circuit/12.2:B	+Main circuit/12.3:B	Conductor / wire
		+Main circuit-U4Z*:SHIELD				+Main circuit/11.4:C	+Main circuit/11.5:C	Conductor / wire
		+Main circuit-U4X*:SHIELD				+Main circuit/11.6:C	+Main circuit/11.6:C	Conductor / wire
		+Main circuit-U4S*:SHIELD				+Main circuit/11.7:C	+Main circuit/11.7:C	Conductor / wire
		+Main circuit-CNC-CAN_AXES:SHIELD				+Main circuit/11.2:B	+Main circuit/11.2:B	Conductor / wire
		+Main circuit-U4Z*:SHIELD				+Main circuit/11.5:C	+Main circuit/11.5:C	Conductor / wire
		+Main circuit-U4X*:SHIELD				+Main circuit/11.7:C	+Main circuit/11.6:C	Conductor / wire
L1	+Main circuit-S1:2	+Main circuit-V1				+Main circuit/13.1:D	+Main circuit/13.1:B	Conductor / wire
L2	+Main circuit-S1:4	+Main circuit-V1				+Main circuit/13.1:D	+Main circuit/13.1:B	Conductor / wire
L3	+Main circuit-S1:6	+Main circuit-V1				+Main circuit/13.1:D	+Main circuit/13.1:B	Conductor / wire
	PE	+Main circuit-X50:PE				+Main circuit/13.1:C	+Main circuit/13.1:F	Conductor / wire
L13	+Main circuit-KM101:2	+Main circuit-U4-L1				+Main circuit/14.2:B	+Main circuit/75.2:A	Conductor / wire
L13	+Main circuit-KM101:2	+Main circuit-U4:L1				+Main circuit/14.2:B	+Main circuit/75.2:D	Conductor / wire
L23	+Main circuit-KM101:4	+Main circuit-U4-L2				+Main circuit/14.2:B	+Main circuit/75.2:A	Conductor / wire
L23	+Main circuit-KM101:4	+Main circuit-U4:L2				+Main circuit/14.2:B	+Main circuit/75.2:D	Conductor / wire
L33	+Main circuit-KM101:6	+Main circuit-U4-L3				+Main circuit/14.2:B	+Main circuit/75.2:A	Conductor / wire
L33	+Main circuit-KM101:6	+Main circuit-U4:L3				+Main circuit/14.2:B	+Main circuit/75.2:D	Conductor / wire
L13	+Main circuit-KM101:2	+Main circuit-U4-L1				+Main circuit/14.2:B	+Main circuit/76.2:A	Conductor / wire
L23	+Main circuit-KM101:4	+Main circuit-U4-L2				+Main circuit/14.2:B	+Main circuit/76.2:A	Conductor / wire
L33	+Main circuit-KM101:6	+Main circuit-U4-L3				+Main circuit/14.2:B	+Main circuit/76.2:B	Conductor / wire
160	+Main circuit-K120:13	+OPT1-U4T-CN1:1				+Main circuit/95.5:A	+Main circuit/95.2:A	Conductor / wire
159	+Main circuit-K119:13	+OPT1-U4T-CN1:3				+Main circuit/95.6:A	+Main circuit/95.2:B	Conductor / wire
158	+Main circuit-K118:13	+OPT1-U4T-CN1:5				+Main circuit/95.6:A	+Main circuit/95.2:B	Conductor / wire
157	+Main circuit-K117:13	+OPT1-U4T-CN1:7				+Main circuit/95.7:A	+Main circuit/95.2:B	Conductor / wire
349	+Main circuit-I/O2-K49:9	+OPT1-U4T-CN1:8				+Main circuit/95.4:C	+Main circuit/95.2:C	Conductor / wire
347	+Main circuit-I/O2-K47:9	+OPT1-U4T-CN1:9				+Main circuit/95.4:C	+Main circuit/95.2:C	Conductor / wire
348	+Main circuit-I/O2-K48:9	+OPT1-U4T-CN1:10				+Main circuit/95.4:C	+Main circuit/95.2:C	Conductor / wire
161	+Main circuit-K121:13	+OPT1-U4T-CN1:28				+Main circuit/95.5:A	+Main circuit/95.2:D	Conductor / wire
353	+Main circuit-I/O2-K53:9	+OPT1-U4T-CN1:30				+Main circuit/95.4:D	+Main circuit/95.2:D	Conductor / wire
352	+Main circuit-I/O2-K52:9	+OPT1-U4T-CN1:31				+Main circuit/95.4:D	+Main circuit/95.2:D	Conductor / wire
351	+Main circuit-I/O2-K51:9	+OPT1-U4T-CN1:32				+Main circuit/95.4:D	+Main circuit/95.2:D	Conductor / wire
164	+Main circuit-K116:9	+OPT1-U4T-CN1:33				+Main circuit/95.4:D	+Main circuit/95.2:D	Conductor / wire
350	+Main circuit-I/O2-K50:9	+OPT1-U4T-CN1:34				+Main circuit/95.4:E	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K49:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K50:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:E	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-K116:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K51:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K52:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K53:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K48:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K47:5	+OPT1-U4T-CN1:47				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K49:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K50:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:E	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-K116:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K51:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K52:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K53:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:D	+Main circuit/95.2:E	Conductor / wire



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Drawing No.	L00-0091-100		Rev. 100
Date	2013.05.17		Page R2.zm
Editor	Vincent		Total 169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
163	+Main circuit-I/O2-K48:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
163	+Main circuit-I/O2-K47:5	+OPT1-U4T-CN1:49				+Main circuit/95.4:C	+Main circuit/95.2:E	Conductor / wire
DCN1	+Main circuit-K116:13	+OPT1-U4T-CN1:2				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
DCN1	+Main circuit-K116:13	+OPT1-U4T-CN1:26				+Main circuit/95.8:E	+Main circuit/95.2:C	Conductor / wire
DCN1	+Main circuit-K116:13	+OPT1-U4T-CN1:6				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
DCN1	+Main circuit-K116:13	+OPT1-U4T-CN1:4				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
	+Main circuit-K116:13	+OPT1-U4T-CN1:2				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
	+Main circuit-K116:13	+OPT1-U4T-CN1:26				+Main circuit/95.8:E	+Main circuit/95.2:C	Conductor / wire
	+Main circuit-K116:13	+OPT1-U4T-CN1:6				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
	+Main circuit-K116:13	+OPT1-U4T-CN1:4				+Main circuit/95.8:E	+Main circuit/95.2:B	Conductor / wire
	+Main circuit-CHOKE_XPS	+Main circuit-U4-L1:CH1				+Main circuit/76.7:D	+Main circuit/76.7:A	Conductor / wire
	+Main circuit-CHOKE_XPS	+Main circuit-U4-L3:CH2				+Main circuit/76.7:D	+Main circuit/76.7:B	Conductor / wire
	PE	+Main circuit-CHOKE_XPS				+Main circuit/76.7:C	+Main circuit/76.7:D	Conductor / wire
	+Main circuit-MS2:4	+Main circuit-U4S2-X4:1				+Main circuit/85.3:D	+Main circuit/85.3:B	Conductor / wire
	+Main circuit-MS2:3	+Main circuit-U4S2-X4:10				+Main circuit/85.3:D	+Main circuit/85.3:B	Conductor / wire
	+Main circuit-MS2:5	+Main circuit-U4S2-X4:11				+Main circuit/85.3:D	+Main circuit/85.3:B	Conductor / wire
	+Main circuit-MS2:6	+Main circuit-U4S2-X4:2				+Main circuit/85.3:D	+Main circuit/85.3:B	Conductor / wire
	+Main circuit-MS2:8	+Main circuit-U4S2-X4:3				+Main circuit/85.4:D	+Main circuit/85.3:B	Conductor / wire
	+Main circuit-MS2:7	+Main circuit-U4S2-X4:12				+Main circuit/85.3:D	+Main circuit/85.4:B	Conductor / wire
	+Main circuit-MS2:1	+Main circuit-U4S2-X4:24				+Main circuit/85.4:D	+Main circuit/85.4:B	Conductor / wire
	+Main circuit-MS2:2	+Main circuit-U4S2-X4:25				+Main circuit/85.4:D	+Main circuit/85.4:B	Conductor / wire
	+Main circuit-MS2:11	+Main circuit-U4S2-X4:21				+Main circuit/85.4:D	+Main circuit/85.4:B	Conductor / wire
	+Main circuit-MS2:12	+Main circuit-U4S2-X4:22				+Main circuit/85.4:D	+Main circuit/85.4:B	Conductor / wire
	+Main circuit-MS2:10	+Main circuit-S2E				+Main circuit/85.4:D	+Main circuit/85.4:D	Conductor / wire
	+Main circuit-MS2:U	+Main circuit-U4S2-POWER:U				+Main circuit/85.1:D	+Main circuit/85.1:B	Conductor / wire
	+Main circuit-MS2:V	+Main circuit-U4S2-POWER:V				+Main circuit/85.1:D	+Main circuit/85.1:B	Conductor / wire
	+Main circuit-MS2:W	+Main circuit-U4S2-POWER:W				+Main circuit/85.2:D	+Main circuit/85.2:B	Conductor / wire
	+Main circuit-MS2	+Main circuit-U4S2-POWER:PE				+Main circuit/85.2:D	+Main circuit/85.2:B	Conductor / wire
	+Main circuit-S2P	+Main circuit-U4S2-POWER:PE				+Main circuit/85.2:B	+Main circuit/85.2:B	Conductor / wire
	+Main circuit-MS:4	+Main circuit-U4S-X4:1				+Main circuit/82.3:D	+Main circuit/82.3:B	Conductor / wire
	+Main circuit-MS:3	+Main circuit-U4S-X4:10				+Main circuit/82.3:D	+Main circuit/82.3:B	Conductor / wire
	+Main circuit-MS:5	+Main circuit-U4S-X4:11				+Main circuit/82.3:D	+Main circuit/82.3:B	Conductor / wire
	+Main circuit-MS:6	+Main circuit-U4S-X4:2				+Main circuit/82.3:D	+Main circuit/82.3:B	Conductor / wire
	+Main circuit-MS:8	+Main circuit-U4S-X4:3				+Main circuit/82.4:D	+Main circuit/82.3:B	Conductor / wire
	+Main circuit-MS:7	+Main circuit-U4S-X4:12				+Main circuit/82.3:D	+Main circuit/82.4:B	Conductor / wire
	+Main circuit-MS:1	+Main circuit-U4S-X4:24				+Main circuit/82.4:D	+Main circuit/82.4:B	Conductor / wire
	+Main circuit-MS:2	+Main circuit-U4S-X4:25				+Main circuit/82.4:D	+Main circuit/82.4:B	Conductor / wire
	+Main circuit-MS:11	+Main circuit-U4S-X4:21				+Main circuit/82.4:D	+Main circuit/82.4:B	Conductor / wire
	+Main circuit-MS:12	+Main circuit-U4S-X4:22				+Main circuit/82.4:D	+Main circuit/82.4:B	Conductor / wire
	+Main circuit-MS:6	+Main circuit-U4S-X4:1				+Main circuit/84.3:D	+Main circuit/84.3:B	Conductor / wire
	+Main circuit-MS:5	+Main circuit-U4S-X4:10				+Main circuit/84.3:D	+Main circuit/84.3:B	Conductor / wire
	+Main circuit-MS:3	+Main circuit-U4S-X4:11				+Main circuit/84.3:D	+Main circuit/84.3:B	Conductor / wire
	+Main circuit-MS:4	+Main circuit-U4S-X4:2				+Main circuit/84.3:D	+Main circuit/84.3:B	Conductor / wire
	+Main circuit-MS:8	+Main circuit-U4S-X4:19				+Main circuit/84.4:D	+Main circuit/84.3:B	Conductor / wire
	+Main circuit-MS:7	+Main circuit-U4S-X4:20				+Main circuit/84.3:D	+Main circuit/84.4:B	Conductor / wire
	+Main circuit-MS:1	+Main circuit-U4S-X4:23				+Main circuit/84.4:D	+Main circuit/84.4:B	Conductor / wire
	+Main circuit-MS:2	+Main circuit-U4S-X4:25				+Main circuit/84.4:D	+Main circuit/84.4:B	Conductor / wire
	+Main circuit-MS:11	+Main circuit-U4S-X4:21				+Main circuit/84.4:D	+Main circuit/84.4:B	Conductor / wire
	+Main circuit-MS:12	+Main circuit-U4S-X4:22				+Main circuit/84.4:D	+Main circuit/84.4:B	Conductor / wire
	+Main circuit-MS:10	+Main circuit-SE				+Main circuit/82.4:D	+Main circuit/83.2:D	Conductor / wire
	+Main circuit-MS:9	+Main circuit-SE				+Main circuit/84.4:D	+Main circuit/83.2:D	Conductor / wire
	+Main circuit-MS*:4	+Main circuit-U4S*-X4:1				+Main circuit/83.2:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-MS*:3	+Main circuit-U4S*-X4:10				+Main circuit/83.2:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-MS*:5	+Main circuit-U4S*-X4:11				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire
	+Main circuit-MS*:6	+Main circuit-U4S*-X4:2				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire
	+Main circuit-MS*:8	+Main circuit-U4S*-X4:3				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire
	+Main circuit-MS*:7	+Main circuit-U4S*-X4:12				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire



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Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.zn
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-MS*:1	+Main circuit-U4S*-X4:24				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire
	+Main circuit-MS*:2	+Main circuit-U4S*-X4:25				+Main circuit/83.3:E	+Main circuit/83.3:B	Conductor / wire
	+Main circuit-MS*:11	+Main circuit-U4S*-X4:21				+Main circuit/83.4:E	+Main circuit/83.4:B	Conductor / wire
	+Main circuit-MS*:12	+Main circuit-U4S*-X4:22				+Main circuit/83.4:E	+Main circuit/83.4:B	Conductor / wire
	+Main circuit-MS:U	+Main circuit-U4S-POWER:U				+Main circuit/82.1:D	+Main circuit/82.1:B	Conductor / wire
	+Main circuit-MS:V	+Main circuit-U4S-POWER:V				+Main circuit/82.1:D	+Main circuit/82.1:B	Conductor / wire
	+Main circuit-MS:W	+Main circuit-U4S-POWER:W				+Main circuit/82.2:D	+Main circuit/82.2:B	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-POWER:PE				+Main circuit/82.2:D	+Main circuit/82.2:B	Conductor / wire
	+Main circuit-MS:U	+Main circuit-U4S-POWER:U				+Main circuit/84.1:D	+Main circuit/84.1:B	Conductor / wire
	+Main circuit-MS:V	+Main circuit-U4S-POWER:V				+Main circuit/84.1:D	+Main circuit/84.1:B	Conductor / wire
	+Main circuit-MS:W	+Main circuit-U4S-POWER:W				+Main circuit/84.2:D	+Main circuit/84.2:B	Conductor / wire
	+Main circuit-MS	+Main circuit-U4S-POWER:PE				+Main circuit/84.2:D	+Main circuit/84.2:B	Conductor / wire
	+Main circuit-SP	+Main circuit-U4S-POWER:PE				+Main circuit/83.1:D	+Main circuit/82.2:B	Conductor / wire
	+Main circuit-SP	+Main circuit-U4S-POWER:PE				+Main circuit/83.1:D	+Main circuit/84.2:B	Conductor / wire
	+Main circuit-MS*:U	+Main circuit-U4S*-POWER:U				+Main circuit/83.1:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-MS*:V	+Main circuit-U4S*-POWER:V				+Main circuit/83.1:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-MS*:W	+Main circuit-U4S*-POWER:W				+Main circuit/83.2:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-MS*	+Main circuit-U4S*-POWER				+Main circuit/83.2:E	+Main circuit/83.2:B	Conductor / wire
	+Main circuit-SP	+Main circuit-U4S*-POWER				+Main circuit/83.1:D	+Main circuit/83.2:B	Conductor / wire
352	+Main circuit-I/O2-K52	+Main circuit-U4T-J1:3				+Main circuit/93.3:B	+Main circuit/93.2:B	Conductor / wire
349	+Main circuit-I/O2-K49	+Main circuit-U4T-J1:5				+Main circuit/93.3:B	+Main circuit/93.2:B	Conductor / wire
353	+Main circuit-I/O2-K53	+Main circuit-U4T-J1:12				+Main circuit/93.3:C	+Main circuit/93.2:C	Conductor / wire
347	+Main circuit-I/O2-K47	+Main circuit-U4T-J1:13				+Main circuit/93.3:C	+Main circuit/93.2:C	Conductor / wire
350	+Main circuit-I/O2-K50	+Main circuit-U4T-J1:14				+Main circuit/93.3:D	+Main circuit/93.2:D	Conductor / wire
354	+Main circuit-I/O2-K54	+Main circuit-U4T-J1:20				+Main circuit/93.3:E	+Main circuit/93.2:E	Conductor / wire
348	+Main circuit-I/O2-K48	+Main circuit-U4T-J1:21				+Main circuit/93.3:E	+Main circuit/93.2:E	Conductor / wire
351	+Main circuit-I/O2-K51	+Main circuit-U4T-J1:23				+Main circuit/93.3:E	+Main circuit/93.2:E	Conductor / wire
346	+Main circuit-I/O2-K46	+Main circuit-U4T-J1:25				+Main circuit/93.3:F	+Main circuit/93.2:F	Conductor / wire
196	+Main circuit-I/O2:36	+Main circuit-U4T-J1:17				+Main circuit/49.6:D	+Main circuit/93.2:D	Conductor / wire
197	+Main circuit-I/O2:14	+Main circuit-U4T-J1:8				+Main circuit/50.2:D	+Main circuit/93.2:C	Conductor / wire
199	+Main circuit-I/O2:15	+Main circuit-U4T-J1:6				+Main circuit/50.3:D	+Main circuit/93.2:B	Conductor / wire
200	+Main circuit-I/O2:34	+Main circuit-U4T-J1:15				+Main circuit/50.4:D	+Main circuit/93.2:D	Conductor / wire
201	+Main circuit-I/O2:16	+Main circuit-U4T-J1:7				+Main circuit/50.4:D	+Main circuit/93.2:B	Conductor / wire
202	+Main circuit-I/O2:35	+Main circuit-U4T-J1:16				+Main circuit/50.5:D	+Main circuit/93.2:D	Conductor / wire
203	+Main circuit-I/O2:17	+Main circuit-U4T-J1:24				+Main circuit/50.6:D	+Main circuit/93.2:E	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4:10				+Main circuit/18.5:D	+Main circuit/75.5:D	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4:9				+Main circuit/18.5:C	+Main circuit/75.5:D	Conductor / wire
83	+Main circuit-DINA_1:23	+Main circuit-U4:7				+Main circuit/31.5:C	+Main circuit/75.4:B	Conductor / wire
83	+Main circuit-DINA_1:23	+Main circuit-U4:7				+Main circuit/31.5:C	+Main circuit/75.4:D	Conductor / wire
82	+Main circuit-I/O2-K1:14	+Main circuit-U4:6				+Main circuit/36.2:B	+Main circuit/75.4:B	Conductor / wire
82	+Main circuit-I/O2-K1:14	+Main circuit-U4:6				+Main circuit/36.2:B	+Main circuit/75.4:D	Conductor / wire
134	+Main circuit-KM101:22	+Main circuit-U4:1				+Main circuit/38.1:A	+Main circuit/75.3:B	Conductor / wire
134	+Main circuit-KM101:22	+Main circuit-U4:1				+Main circuit/38.1:A	+Main circuit/75.3:D	Conductor / wire
DCN1	+Main circuit-U4:3	+Main circuit-U4:3				+Main circuit/75.3:B	+Main circuit/75.3:D	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4:9				+Main circuit/75.5:B	+Main circuit/75.5:D	Conductor / wire
PE	+Main circuit-U4:8	+Main circuit-U4-X2				+Main circuit/75.4:D	+Main circuit/75.4:B	Conductor / wire
								Conductor / wire
136	+Main circuit-I/O2-K4:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/75.4:B	Conductor / wire
136	+Main circuit-I/O2-K5:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/75.4:B	Conductor / wire
136	+Main circuit-I/O2-K4:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/75.3:D	Conductor / wire
136	+Main circuit-I/O2-K5:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/75.3:D	Conductor / wire
83	+Main circuit-DINA_1:23	+Main circuit-U4:7				+Main circuit/31.5:C	+Main circuit/76.4:B	Conductor / wire
82	+Main circuit-I/O2-K1:14	+Main circuit-U4:6				+Main circuit/36.2:B	+Main circuit/76.4:B	Conductor / wire
134	+Main circuit-KM101:22	+Main circuit-U4:1				+Main circuit/38.1:A	+Main circuit/76.3:B	Conductor / wire
136	+Main circuit-I/O2-K4:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/76.4:B	Conductor / wire
136	+Main circuit-I/O2-K5:13	+Main circuit-U4:5				+Main circuit/37.2:C	+Main circuit/76.4:B	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.zo
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
DCN1	+Main circuit-U4:3	+Main circuit-U4:3				+Main circuit/77.5:C	+Main circuit/76.3:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4:9				+Main circuit/76.5:B	+Main circuit/75.5:D	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4:9				+Main circuit/77.7:C	+Main circuit/75.5:D	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4S-X2:8				+Main circuit/18.5:D	+Main circuit/82.8:B	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4S-X2:8				+Main circuit/18.5:D	+Main circuit/84.8:B	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4S-X2:7				+Main circuit/18.5:C	+Main circuit/82.8:B	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4S-X2:7				+Main circuit/18.5:C	+Main circuit/84.8:B	Conductor / wire
305	+Main circuit-I/O2-K5:14	+Main circuit-U4S-X2:5				+Main circuit/37.2:C	+Main circuit/82.7:B	Conductor / wire
305	+Main circuit-I/O2-K5:14	+Main circuit-U4S-X2:5				+Main circuit/37.2:C	+Main circuit/84.7:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4S-X2:2				+Main circuit/38.2:A	+Main circuit/82.7:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4S-X2:2				+Main circuit/38.2:A	+Main circuit/84.7:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/75.5:B	+Main circuit/82.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/75.5:B	+Main circuit/84.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/77.7:C	+Main circuit/84.8:B	Conductor / wire
PE	+Main circuit-U4S-X2	+Main circuit-U4S-X2:6				+Main circuit/82.8:C	+Main circuit/82.8:B	Conductor / wire
PE	+Main circuit-U4S-X2	+Main circuit-U4S-X2:6				+Main circuit/82.8:C	+Main circuit/84.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/76.5:B	+Main circuit/84.8:B	Conductor / wire
DCN1	+Main circuit-U4S-X2:1	+Main circuit-U4S2-X2:1				+Main circuit/84.6:B	+Main circuit/85.6:B	Conductor / wire
305	+Main circuit-I/O2-K5:14	+Main circuit-U4S*-X2:7				+Main circuit/37.2:C	+Main circuit/83.6:B	Conductor / wire
134	+Main circuit-KM101:22	+Main circuit-U4S*-X2:3				+Main circuit/38.1:A	+Main circuit/83.5:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4S*-X2:4				+Main circuit/38.2:A	+Main circuit/83.6:B	Conductor / wire
PE	+Main circuit-U4S-X2	+Main circuit-U4S*-X2				+Main circuit/82.8:C	+Main circuit/83.7:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/77.7:C	+Main circuit/82.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S-X2:7				+Main circuit/76.5:B	+Main circuit/82.8:B	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4S2-X2:8				+Main circuit/18.5:D	+Main circuit/85.8:B	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4S2-X2:7				+Main circuit/18.5:C	+Main circuit/85.8:B	Conductor / wire
369	+Main circuit-K69:14	+Main circuit-U4S2-X2:5				+Main circuit/37.3:C	+Main circuit/85.7:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4S2-X2:2				+Main circuit/38.2:A	+Main circuit/85.7:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S2-X2:7				+Main circuit/75.5:B	+Main circuit/85.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S2-X2:7				+Main circuit/77.7:C	+Main circuit/85.8:B	Conductor / wire
PE	+Main circuit-U4S2-X2	+Main circuit-U4S2-X2:6				+Main circuit/85.8:C	+Main circuit/85.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4S2-X2:7				+Main circuit/76.5:B	+Main circuit/85.8:B	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4X-X2:8				+Main circuit/18.5:D	+Main circuit/78.8:B	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4X-X2:7				+Main circuit/18.5:C	+Main circuit/78.8:B	Conductor / wire
302	+Main circuit-I/O2-K2:14	+Main circuit-U4X-X2:5				+Main circuit/37.1:C	+Main circuit/78.7:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4X-X2:2				+Main circuit/38.2:A	+Main circuit/78.7:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4X-X2:7				+Main circuit/75.5:B	+Main circuit/78.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4X-X2:7				+Main circuit/77.7:C	+Main circuit/78.8:B	Conductor / wire
PE	+Main circuit-U4X-X2	+Main circuit-U4X-X2:6				+Main circuit/78.8:C	+Main circuit/78.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4X-X2:7				+Main circuit/76.5:B	+Main circuit/78.8:B	Conductor / wire
DCN1	+Main circuit-MX:F	+Main circuit-U4X-X2:1				+Main circuit/78.2:D	+Main circuit/78.6:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4X*-X2:4				+Main circuit/38.2:A	+Main circuit/79.5:D	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4Z*-X2:4				+Main circuit/38.2:A	+Main circuit/81.5:D	Conductor / wire
DCN1	+Main circuit-U4S-X2:1	+Main circuit-U4Z*-X2:5				+Main circuit/82.6:B	+Main circuit/81.5:D	Conductor / wire
DCN1	+Main circuit-U4X*-X2:5	+Main circuit-U4Z-X2:1				+Main circuit/79.5:D	+Main circuit/80.6:B	Conductor / wire
DCH3	+Main circuit-KM80:6	+Main circuit-U4Z-X2:8				+Main circuit/18.5:D	+Main circuit/80.8:B	Conductor / wire
DCN3	+Main circuit-PS3	+Main circuit-U4Z-X2:7				+Main circuit/18.5:C	+Main circuit/80.8:B	Conductor / wire
304	+Main circuit-I/O2-K4:14	+Main circuit-U4Z-X2:5				+Main circuit/37.2:C	+Main circuit/80.7:B	Conductor / wire
135	+Main circuit-KM101:14	+Main circuit-U4Z-X2:2				+Main circuit/38.2:A	+Main circuit/80.7:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4Z-X2:7				+Main circuit/75.5:B	+Main circuit/80.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4Z-X2:7				+Main circuit/77.7:C	+Main circuit/80.8:B	Conductor / wire
PE	+Main circuit-U4Z-X2	+Main circuit-U4Z-X2:6				+Main circuit/80.8:C	+Main circuit/80.8:B	Conductor / wire
DCN3	+Main circuit-U4:0V	+Main circuit-U4Z-X2:7				+Main circuit/76.5:B	+Main circuit/80.8:B	Conductor / wire
U3	+Main circuit-KM3:2	+Main circuit-X3:1				+Main circuit/16.1:B	+Main circuit/16.1:D	Conductor / wire
V3	+Main circuit-KM3:4	+Main circuit-X3:2				+Main circuit/16.2:B	+Main circuit/16.2:D	Conductor / wire



Connection list : DCN1 - V3

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.zp
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
W3	+Main circuit-KM3:6	+Main circuit-X3:3				+Main circuit/16.2:B	+Main circuit/16.2:D	Conductor / wire
U4	+Main circuit-KM4:1:2	+Main circuit-X4:1				+Main circuit/16.3:B	+Main circuit/16.3:D	Conductor / wire
V4	+Main circuit-KM4-1:4	+Main circuit-X4:2				+Main circuit/16.3:B	+Main circuit/16.3:D	Conductor / wire
W4	+Main circuit-KM4-1:6	+Main circuit-X4:3				+Main circuit/16.3:B	+Main circuit/16.3:D	Conductor / wire
94	+Main circuit-S8:11	+Main circuit-X4:5				+Main circuit/26.4:C	+Main circuit/16.4:D	Conductor / wire
214	+Main circuit-S8:21	+Main circuit-X4:7				+Main circuit/26.4:C	+Main circuit/16.4:D	Conductor / wire
93	+Main circuit-MPG:14	+Main circuit-X4:4				+Main circuit/90.5:D	+Main circuit/16.4:D	Conductor / wire
213	+Main circuit-MPG:16	+Main circuit-X4:6				+Main circuit/90.5:E	+Main circuit/16.4:D	Conductor / wire
U5	+Main circuit-KM5:2	+Main circuit-X5:1				+Main circuit/16.6:B	+Main circuit/16.6:D	Conductor / wire
V5	+Main circuit-KM5:4	+Main circuit-X5:2				+Main circuit/16.6:B	+Main circuit/16.6:D	Conductor / wire
W5	+Main circuit-KM5:6	+Main circuit-X5:3				+Main circuit/16.6:B	+Main circuit/16.6:D	Conductor / wire
U9	+Main circuit-KM9:2	+Main circuit-M9:U				+Main circuit/17.1:B	+Main circuit/17.1:E	Conductor / wire
V9	+Main circuit-KM9:4	+Main circuit-M9:V				+Main circuit/17.2:B	+Main circuit/17.1:E	Conductor / wire
W9	+Main circuit-KM9:6	+Main circuit-M9:W				+Main circuit/17.2:B	+Main circuit/17.1:E	Conductor / wire
U10	+Main circuit-KM10-1:2	+Main circuit-X10:1				+Main circuit/17.4:B	+Main circuit/17.4:D	Conductor / wire
V10	+Main circuit-KM10-1:4	+Main circuit-X10:2				+Main circuit/17.4:B	+Main circuit/17.4:D	Conductor / wire
W10	+Main circuit-KM10-1:6	+Main circuit-X10:3				+Main circuit/17.4:B	+Main circuit/17.4:D	Conductor / wire
U35	+Main circuit-KM35:2	+Main circuit-X35:1				+Main circuit/17.6:B	+Main circuit/17.6:D	Conductor / wire
V35	+Main circuit-KM35:4	+Main circuit-X35:2				+Main circuit/17.6:B	+Main circuit/17.6:D	Conductor / wire
W35	+Main circuit-KM35:6	+Main circuit-X35:3				+Main circuit/17.6:B	+Main circuit/17.6:D	Conductor / wire
U19	+Main circuit-F39:2	+Main circuit-M19:U				+Main circuit/20.5:A	+Main circuit/20.5:E	Conductor / wire
V19	+Main circuit-F39:4	+Main circuit-M19:V				+Main circuit/20.5:A	+Main circuit/20.5:E	Conductor / wire
W19	+Main circuit-F39:6	+Main circuit-M19:W				+Main circuit/20.5:A	+Main circuit/20.5:E	Conductor / wire
	+Main circuit-CNC-X4:1	+Main circuit-ENCODER:A				+Main circuit/88.7:B	+Main circuit/88.4:B	Conductor / wire
	+Main circuit-CNC-X4:2	+Main circuit-ENCODER:N				+Main circuit/88.7:B	+Main circuit/88.4:B	Conductor / wire
	+Main circuit-CNC-X4:3	+Main circuit-ENCODER:C				+Main circuit/88.7:B	+Main circuit/88.4:B	Conductor / wire
	+Main circuit-CNC-X4:4	+Main circuit-ENCODER:R				+Main circuit/88.7:B	+Main circuit/88.4:B	Conductor / wire
	+Main circuit-CNC-X4:5	+Main circuit-ENCODER:B				+Main circuit/88.7:C	+Main circuit/88.4:C	Conductor / wire
	+Main circuit-CNC-X4:6	+Main circuit-ENCODER:P				+Main circuit/88.7:C	+Main circuit/88.4:C	Conductor / wire
	+Main circuit-CNC-X4:11	+Main circuit-ENCODER:K				+Main circuit/88.7:D	+Main circuit/88.4:D	Conductor / wire
	+Main circuit-EX1:1	+Main circuit-PC AT:1				+Main circuit/86.4:B	+Main circuit/86.2:B	Conductor / wire
	+Main circuit-EX1:2	+Main circuit-PC AT:2				+Main circuit/86.4:B	+Main circuit/86.2:B	Conductor / wire
	+Main circuit-EX1:3	+Main circuit-PC AT:3				+Main circuit/86.4:C	+Main circuit/86.2:C	Conductor / wire
	+Main circuit-EX1:4	+Main circuit-PC AT:4				+Main circuit/86.4:C	+Main circuit/86.2:C	Conductor / wire
	+Main circuit-EX1:5	+Main circuit-PC AT:5				+Main circuit/86.4:C	+Main circuit/86.2:C	Conductor / wire
	+Main circuit-EX1:6	+Main circuit-PC AT:6				+Main circuit/86.4:C	+Main circuit/86.2:C	Conductor / wire
	+Main circuit-EX1:7	+Main circuit-PC AT:7				+Main circuit/86.4:D	+Main circuit/86.2:D	Conductor / wire
	+Main circuit-EX1:8	+Main circuit-PC AT:8				+Main circuit/86.4:D	+Main circuit/86.2:D	Conductor / wire
	+Main circuit-EX1:9	+Main circuit-PC AT:9				+Main circuit/86.4:D	+Main circuit/86.2:D	Conductor / wire
	+Main circuit-CNC-X1:2	+Main circuit-EX1:3				+Main circuit/86.6:B	+Main circuit/86.7:B	Conductor / wire
	+Main circuit-CNC-X1:3	+Main circuit-EX1:2				+Main circuit/86.6:C	+Main circuit/86.7:C	Conductor / wire
	+Main circuit-CNC-X1:5	+Main circuit-EX1:5				+Main circuit/86.6:D	+Main circuit/86.7:D	Conductor / wire
148	+Main circuit-CNC-X5:1	+Main circuit-HANDWHEEL_X:A				+Main circuit/89.3:B	+Main circuit/89.6:B	Conductor / wire
149	+Main circuit-CNC-X5:3	+Main circuit-HANDWHEEL_X:B				+Main circuit/89.3:B	+Main circuit/89.6:B	Conductor / wire
150	+Main circuit-CNC-X5:9	+Main circuit-HANDWHEEL_X:+5V				+Main circuit/89.3:B	+Main circuit/89.6:B	Conductor / wire
151	+Main circuit-CNC-X5:11	+Main circuit-HANDWHEEL_X:0V				+Main circuit/89.3:C	+Main circuit/89.6:C	Conductor / wire
152	+Main circuit-CNC-X5:5	+Main circuit-HANDWHEEL_Z:A				+Main circuit/89.3:D	+Main circuit/89.6:D	Conductor / wire
153	+Main circuit-CNC-X5:7	+Main circuit-HANDWHEEL_Z:B				+Main circuit/89.3:D	+Main circuit/89.6:D	Conductor / wire
154	+Main circuit-CNC-X5:10	+Main circuit-HANDWHEEL_Z:+5V				+Main circuit/89.3:D	+Main circuit/89.6:D	Conductor / wire
155	+Main circuit-CNC-X5:12	+Main circuit-HANDWHEEL_Z:0V				+Main circuit/89.3:E	+Main circuit/89.6:E	Conductor / wire
225	+Main circuit-MPG:A	+Main circuit-U17:HA				+Main circuit/91.5:B	+Main circuit/91.5:D	Conductor / wire
226	+Main circuit-MPG:B	+Main circuit-U17:HB				+Main circuit/91.5:B	+Main circuit/91.5:D	Conductor / wire
227	+Main circuit-MPG:+5V	+Main circuit-U17:5V				+Main circuit/91.5:B	+Main circuit/91.5:D	Conductor / wire
228	+Main circuit-MPG:0V	+Main circuit-U17:0V				+Main circuit/91.5:B	+Main circuit/91.5:D	Conductor / wire
	+Main circuit-CNC-X5:9	+Main circuit-MPG:1				+Main circuit/90.7:B	+Main circuit/90.5:B	Conductor / wire
	+Main circuit-C1:x1	+Main circuit-MPG:3				+Main circuit/90.6:B	+Main circuit/90.5:A	Conductor / wire
	+Main circuit-C1:x2	+Main circuit-MPG:2				+Main circuit/90.6:B	+Main circuit/90.5:B	Conductor / wire



Connection list : W3 -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
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		Rev.	100
		Page	R2.zq
		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
151	+Main circuit-C2:x1	+Main circuit-MPG:4				+Main circuit/90.7:B	+Main circuit/90.5:B	Conductor / wire
150	+Main circuit-HANDWHEEL_X:0V	+Main circuit-U17:X0V				+Main circuit/91.2:B	+Main circuit/91.2:D	Conductor / wire
149	+Main circuit-HANDWHEEL_X:+5V	+Main circuit-U17:X5V				+Main circuit/91.3:B	+Main circuit/91.3:D	Conductor / wire
148	+Main circuit-HANDWHEEL_X:B	+Main circuit-U17:XHB				+Main circuit/91.3:B	+Main circuit/91.3:D	Conductor / wire
155	+Main circuit-HANDWHEEL_X:A	+Main circuit-U17:XHA				+Main circuit/91.3:B	+Main circuit/91.3:D	Conductor / wire
154	+Main circuit-HANDWHEEL_Z:0V	+Main circuit-U17:Z0V				+Main circuit/91.7:B	+Main circuit/91.7:D	Conductor / wire
153	+Main circuit-HANDWHEEL_Z:+5V	+Main circuit-U17:Z5V				+Main circuit/91.7:B	+Main circuit/91.7:D	Conductor / wire
152	+Main circuit-HANDWHEEL_Z:B	+Main circuit-U17:XHB				+Main circuit/91.7:B	+Main circuit/91.7:D	Conductor / wire
	+Main circuit-HANDWHEEL_Z:A	+Main circuit-U17:ZHA				+Main circuit/91.8:B	+Main circuit/91.8:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:A	+Main circuit/72.5:A	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:A	+Main circuit/72.5:A	Conductor / wire
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9				+Main circuit/72.5:B	+Main circuit/72.5:B	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:B	+Main circuit/72.5:B	Conductor / wire
	+Main circuit-MCP-SB9	+Main circuit-MCP-SB9				+Main circuit/72.5:B	+Main circuit/72.5:B	Conductor / wire
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/72.5:C	+Main circuit/72.5:C	Conductor / wire
	+Main circuit-MCP-SB4	+Main circuit-MCP-SB4				+Main circuit/72.5:C	+Main circuit/72.5:C	Conductor / wire
	+Main circuit-MCP-SA5	+Main circuit-MCP-SA5				+Main circuit/72.5:D	+Main circuit/72.5:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:D	+Main circuit/72.5:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:D	+Main circuit/72.5:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/72.5:E	+Main circuit/72.5:E	Conductor / wire
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12				+Main circuit/72.5:E	+Main circuit/72.5:E	Conductor / wire
	+Main circuit-MCP-SB12	+Main circuit-MCP-SB12				+Main circuit/72.5:E	+Main circuit/72.5:E	Conductor / wire
								Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:B	+Main circuit/70.5:B	Conductor / wire
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2				+Main circuit/70.5:B	+Main circuit/70.5:B	Conductor / wire
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1				+Main circuit/70.5:C	+Main circuit/70.5:C	Conductor / wire
	+Main circuit-MCP-SB1	+Main circuit-MCP-SB1				+Main circuit/70.5:C	+Main circuit/70.5:C	Conductor / wire
	+Main circuit-MCP-SB2	+Main circuit-MCP-SB2				+Main circuit/70.5:C	+Main circuit/70.5:C	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:D	+Main circuit/70.5:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:D	+Main circuit/70.5:D	Conductor / wire
	+Main circuit-MCP-S5	+Main circuit-MCP-S5				+Main circuit/70.5:D	+Main circuit/70.5:D	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:E	+Main circuit/70.5:E	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:E	+Main circuit/70.5:E	Conductor / wire
	+Main circuit-MCP	+Main circuit-MCP				+Main circuit/70.5:E	+Main circuit/70.5:E	Conductor / wire
	+Main circuit-MCP-SB5	+Main circuit-MCP-SB5				+Main circuit/71.5:B	+Main circuit/71.5:B	Conductor / wire
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB6				+Main circuit/71.5:C	+Main circuit/71.5:C	Conductor / wire
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB7				+Main circuit/71.5:C	+Main circuit/71.5:C	Conductor / wire
	+Main circuit-MCP-SB6	+Main circuit-MCP-SB6				+Main circuit/71.5:D	+Main circuit/71.5:D	Conductor / wire
	+Main circuit-MCP-SB7	+Main circuit-MCP-SB7				+Main circuit/71.5:D	+Main circuit/71.5:D	Conductor / wire
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10				+Main circuit/71.5:D	+Main circuit/71.5:D	Conductor / wire
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/71.5:E	+Main circuit/71.5:E	Conductor / wire
	+Main circuit-MCP-SB10	+Main circuit-MCP-SB10				+Main circuit/71.5:E	+Main circuit/71.5:E	Conductor / wire
	+Main circuit-MCP-SB11	+Main circuit-MCP-SB11				+Main circuit/71.5:E	+Main circuit/71.5:E	Conductor / wire
								Conductor / wire
								Conductor / wire
	+Main circuit-MX:1	+Main circuit-U4X-X4:1				+Main circuit/78.3:D	+Main circuit/78.3:B	Conductor / wire
	+Main circuit-MX:8	+Main circuit-U4X-X4:10				+Main circuit/78.3:D	+Main circuit/78.3:B	Conductor / wire
	+Main circuit-MX:5	+Main circuit-U4X-X4:11				+Main circuit/78.3:D	+Main circuit/78.3:B	Conductor / wire
	+Main circuit-MX:6	+Main circuit-U4X-X4:2				+Main circuit/78.3:D	+Main circuit/78.3:B	Conductor / wire
	+Main circuit-MX:7	+Main circuit-U4X-X4:19				+Main circuit/78.4:D	+Main circuit/78.3:B	Conductor / wire
	+Main circuit-MX:2	+Main circuit-U4X-X4:20				+Main circuit/78.3:D	+Main circuit/78.4:B	Conductor / wire
	+Main circuit-MX:10	+Main circuit-U4X-X4:23				+Main circuit/78.4:D	+Main circuit/78.4:B	Conductor / wire
	+Main circuit-MX:12	+Main circuit-U4X-X4:25				+Main circuit/78.4:D	+Main circuit/78.4:B	Conductor / wire
	+Main circuit-MX:4	+Main circuit-U4X-X4:21				+Main circuit/78.4:D	+Main circuit/78.4:B	Conductor / wire
	+Main circuit-MX:3	+Main circuit-U4X-X4:22				+Main circuit/78.4:D	+Main circuit/78.4:B	Conductor / wire
	+Main circuit-MX:9	+Main circuit-XE				+Main circuit/78.4:D	+Main circuit/79.2:B	Conductor / wire



Connection list : -

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
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		Rev.	100
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		Total	169

Connection list

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connection	source	Target	cross-section	Color	Length	Page / column 1	Page / column 2	function definition
	+Main circuit-MX*:1	+Main circuit-U4X*:1				+Main circuit/79.2:A	+Main circuit/79.2:C	Conductor / wire
	+Main circuit-MX*:8	+Main circuit-U4X*:10				+Main circuit/79.2:A	+Main circuit/79.2:C	Conductor / wire
	+Main circuit-MX*:5	+Main circuit-U4X*:11				+Main circuit/79.2:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:6	+Main circuit-U4X*:2				+Main circuit/79.3:A	+Main circuit/79.2:C	Conductor / wire
	+Main circuit-MX*:7	+Main circuit-U4X*:19				+Main circuit/79.3:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:2	+Main circuit-U4X*:20				+Main circuit/79.3:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:10	+Main circuit-U4X*:23				+Main circuit/79.3:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:12	+Main circuit-U4X*:25				+Main circuit/79.3:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:4	+Main circuit-U4X*:21				+Main circuit/79.4:A	+Main circuit/79.3:C	Conductor / wire
	+Main circuit-MX*:3	+Main circuit-U4X*:22				+Main circuit/79.3:A	+Main circuit/79.4:C	Conductor / wire
	+Main circuit-MX:A	+Main circuit-U4X-POWER:U				+Main circuit/78.1:D	+Main circuit/78.1:B	Conductor / wire
	+Main circuit-MX:B	+Main circuit-U4X-POWER:V				+Main circuit/78.1:D	+Main circuit/78.1:B	Conductor / wire
	+Main circuit-MX:C	+Main circuit-U4X-POWER:W				+Main circuit/78.2:D	+Main circuit/78.2:B	Conductor / wire
	+Main circuit-MX:D	+Main circuit-U4X-POWER:PE				+Main circuit/78.2:D	+Main circuit/78.2:B	Conductor / wire
	+Main circuit-U4X-POWER:PE	+Main circuit-XP				+Main circuit/78.2:B	+Main circuit/79.4:B	Conductor / wire
UX	+Main circuit-MX*:1	+Main circuit-U4X*-POWER:U				+Main circuit/79.4:A	+Main circuit/79.7:D	Conductor / wire
VX	+Main circuit-MX*:2	+Main circuit-U4X*-POWER:V				+Main circuit/79.4:A	+Main circuit/79.7:D	Conductor / wire
WX	+Main circuit-MX*:6	+Main circuit-U4X*-POWER:W				+Main circuit/79.4:A	+Main circuit/79.7:C	Conductor / wire
PE	+Main circuit-MX*:3	+Main circuit-U4X*-POWER:PE				+Main circuit/79.5:A	+Main circuit/79.7:C	Conductor / wire
	+Main circuit-MZ:1	+Main circuit-U4Z-X4:1				+Main circuit/80.3:D	+Main circuit/80.3:B	Conductor / wire
	+Main circuit-MZ:8	+Main circuit-U4Z-X4:10				+Main circuit/80.3:D	+Main circuit/80.3:B	Conductor / wire
	+Main circuit-MZ:5	+Main circuit-U4Z-X4:11				+Main circuit/80.3:D	+Main circuit/80.3:B	Conductor / wire
	+Main circuit-MZ:6	+Main circuit-U4Z-X4:2				+Main circuit/80.3:D	+Main circuit/80.3:B	Conductor / wire
	+Main circuit-MZ:7	+Main circuit-U4Z-X4:19				+Main circuit/80.4:D	+Main circuit/80.3:B	Conductor / wire
	+Main circuit-MZ:2	+Main circuit-U4Z-X4:20				+Main circuit/80.3:D	+Main circuit/80.4:B	Conductor / wire
	+Main circuit-MZ:10	+Main circuit-U4Z-X4:23				+Main circuit/80.4:D	+Main circuit/80.4:B	Conductor / wire
	+Main circuit-MZ:12	+Main circuit-U4Z-X4:25				+Main circuit/80.4:D	+Main circuit/80.4:B	Conductor / wire
	+Main circuit-MZ:4	+Main circuit-U4Z-X4:21				+Main circuit/80.4:D	+Main circuit/80.4:B	Conductor / wire
	+Main circuit-MZ:3	+Main circuit-U4Z-X4:22				+Main circuit/80.4:D	+Main circuit/80.4:B	Conductor / wire
	+Main circuit-MZ*:8	+Main circuit-U4Z*:10				+Main circuit/81.2:A	+Main circuit/81.2:C	Conductor / wire
	+Main circuit-MZ*:1	+Main circuit-U4Z*:1				+Main circuit/81.2:A	+Main circuit/81.2:C	Conductor / wire
	+Main circuit-MZ*:5	+Main circuit-U4Z*:11				+Main circuit/81.2:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ*:6	+Main circuit-U4Z*:2				+Main circuit/81.3:A	+Main circuit/81.2:C	Conductor / wire
	+Main circuit-MZ*:2	+Main circuit-U4Z*:20				+Main circuit/81.3:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ*:7	+Main circuit-U4Z*:19				+Main circuit/81.3:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ*:12	+Main circuit-U4Z*:25				+Main circuit/81.3:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ*:10	+Main circuit-U4Z*:23				+Main circuit/81.3:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ*:3	+Main circuit-U4Z*:22				+Main circuit/81.3:A	+Main circuit/81.4:C	Conductor / wire
	+Main circuit-MZ*:4	+Main circuit-U4Z*:21				+Main circuit/81.4:A	+Main circuit/81.3:C	Conductor / wire
	+Main circuit-MZ:9	+Main circuit-ZE				+Main circuit/80.4:D	+Main circuit/81.2:B	Conductor / wire
	+Main circuit-MZ:A	+Main circuit-U4Z-POWER:U				+Main circuit/80.1:D	+Main circuit/80.1:B	Conductor / wire
	+Main circuit-MZ:B	+Main circuit-U4Z-POWER:V				+Main circuit/80.1:D	+Main circuit/80.1:B	Conductor / wire
	+Main circuit-MZ:C	+Main circuit-U4Z-POWER:W				+Main circuit/80.2:D	+Main circuit/80.2:B	Conductor / wire
	+Main circuit-MZ:D	+Main circuit-U4Z-POWER:PE				+Main circuit/80.2:D	+Main circuit/80.2:B	Conductor / wire
	+Main circuit-U4Z-POWER:PE	+Main circuit-ZP				+Main circuit/80.2:B	+Main circuit/81.4:B	Conductor / wire
UZ	+Main circuit-MZ*:1	+Main circuit-U4Z*-POWER:U				+Main circuit/81.4:A	+Main circuit/81.7:D	Conductor / wire
VZ	+Main circuit-MZ*:2	+Main circuit-U4Z*-POWER:V				+Main circuit/81.4:A	+Main circuit/81.7:D	Conductor / wire
PE	+Main circuit-MZ*:3	+Main circuit-U4Z*-POWER:PE				+Main circuit/81.5:A	+Main circuit/81.7:C	Conductor / wire
WZ	+Main circuit-MZ*:6	+Main circuit-U4Z*-POWER:W				+Main circuit/81.4:A	+Main circuit/81.7:C	Conductor / wire
	+Main circuit-E1:x2	+Main circuit-E2:x2				+Main circuit/20.4:E	+Main circuit/20.4:E	Direct connection
	+TURRET2-DIPLOMATIC:W	+TURRET2-XT-MF:C2				+Main circuit/97.6:B	+Main circuit/97.4:B	Conductor / wire
	+TURRET2-DIPLOMATIC:V	+TURRET2-XT-MF:C3				+Main circuit/97.6:B	+Main circuit/97.4:B	Conductor / wire
	+TURRET2-DIPLOMATIC:U	+TURRET2-XT-MF:C4				+Main circuit/97.6:B	+Main circuit/97.4:B	Conductor / wire
DCH1	+TURRET2-DIPLOMATIC:P3-1	+TURRET2-DIPLOMATIC:P3-7				+Main circuit/98.2:B	+Main circuit/98.2:B	Conductor / wire



Connection list : - DCH1

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Drawing No.	L00-0091-100		
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		Rev.	100
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		Total	169

Cable overview

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Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	function text	Graphical page of cable diagram
-A*		PE			4	12		Machine power inlet	
		-V1							
-B*	KM101	L1			9	12		Source of power supply	
		L2							
		L3							
-C*					0	2		Power cable - X axis	
-CN1	-I/O2-K49				37				
	-I/O2-K48								
	-I/O2-K53								
	-I/O2-K51								
	-I/O2-K50								
	-I/O2-K47								
	-I/O2-K52								
	-K116								
	-K121								
	-K120								
	-K119								
	-K118								
	-K117								
-D*					0	2		Power cable - Z axis	
-E*					0	2		Power cable - Spindle	
-F*					0	2		Power cable - Spindle 2	
-G*					3	2		=	
		PE							
-SE					30				
-SP					12	3.5		Power cable - Spindle	
-TB-J1					16				
	I/O2-K52								
	I/O2-K49								
	I/O2-K53								
	I/O2-K47								
	I/O2-K50								
	I/O2-K54								
	I/O2-K48								
	I/O2-K51								
	I/O2-K46								
-X5-MPG					4				
-X5-X	-C1				8				
	-C2								
-X5-Z					4				



Cable overview : =SYS+Main circuit-A* -
=SYS+Main circuit-X5-Z

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		
Editor	Vincent		
		Rev.	100
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		Total	169

Cable overview

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A

A

Cable name	Source (from)	Target (to)	cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	function text	Graphical page of cable diagram
-XE					20				
-XP					8	1.25			
-ZE					20				
-ZP					8	1.25			

B

B

C

C

D

D

E

E

F

F



Cable overview : =SYS+Main circuit-XE -
=SYS+Main circuit-ZP

Model	LATHE SERIES	Modification Date	Modification Name
Drawing No.	L00-0091-100		
Date	2013.05.17		Rev. 100
Editor	Vincent		Page R3.a
			Total 169

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