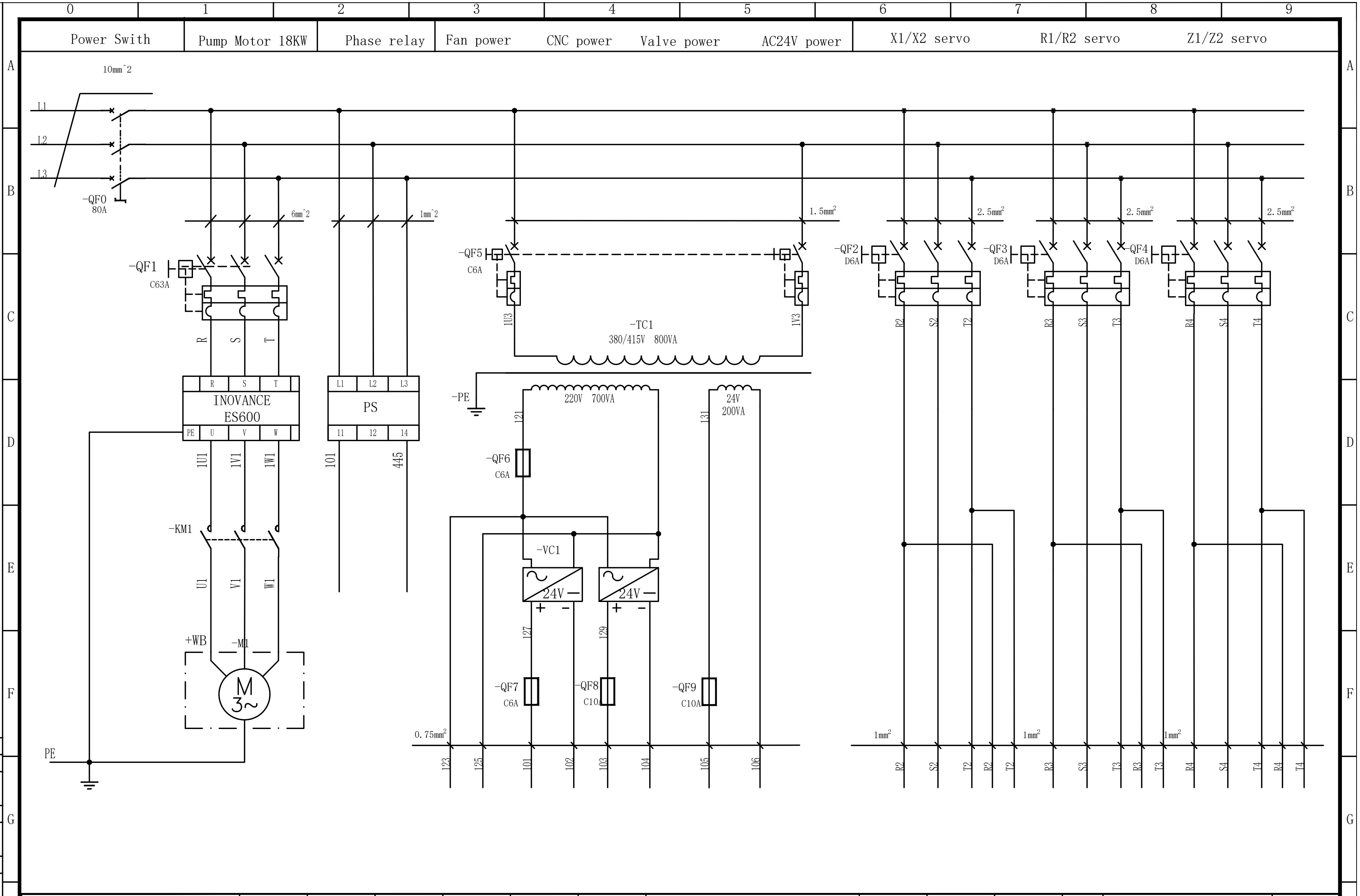
Power Swith
Pump Motor 18KW
Phase relay
Fan power
CNC power
Valve power
AC24V power
X1/X2 servo
R1/R2 servo
Z1/Z2 servo
10mm^2
L1
L2
L3
-QF0
80A
6mm^2
1mm^2
1.5mm²
2.5mm²
2.5mm²
2.5mm²
-QF1
C63A
R
S
T
INOVANCE
ES600
PE
U
V
W
1U1
1V1
1W1
-KM1
U1
V1
W1
+WB
-M1
M
3~
PE
L1
L2
L3
PS
11
12
14
101
445
-QF5
C6A
1U3
1V3
-TC1
380/415V 800VA
-PE
220V 700VA
24V
200VA
121
131
-QF6
C6A
-VC1
24V
24V
127
129
-QF7
C6A
-QF8
C10A
-QF9
C10A
0.75mm²
123
125
101
102
103
104
105
106
-QF2
D6A
-QF3
D6A
-QF4
D6A
R2
S2
T2
R3
S3
T3
R4
S4
T4
1mm²
1mm²
1mm²
R2
S2
T2
R2
T2
R3
S3
T3
R3
T3
R4
S4
T4
R4
T4

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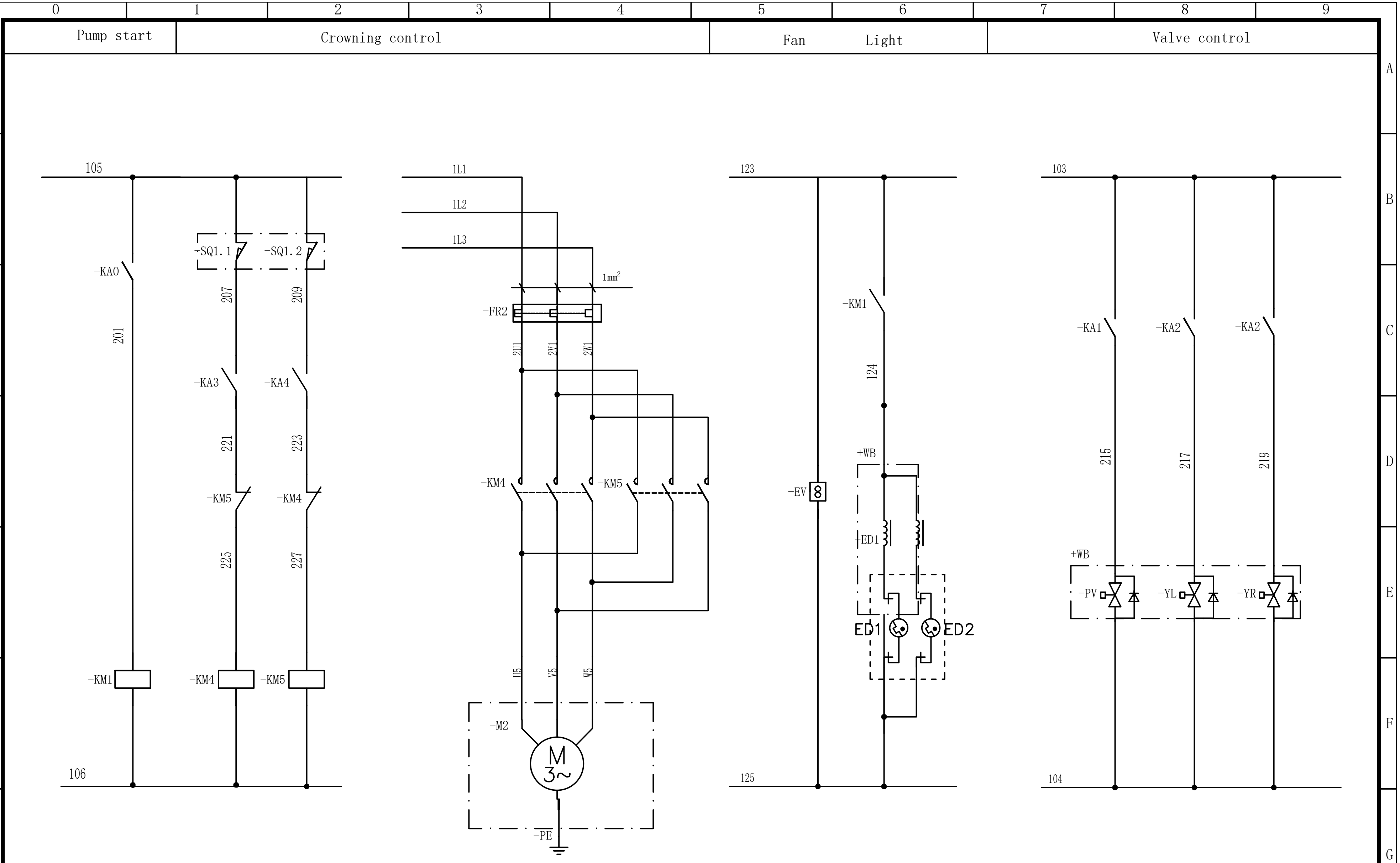
12

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

1


Pump start
Crowning control
Fan
Light
Valve control
105
-KA0
201
-KM1
106
-SQ1.1
-SQ1.2
207
209
-KA3
-KA4
221
223
-KM5
-KM4
225
227
-KM4
-KM5
1L1
1L2
1L3
1mm²
-FR2
2U1
2V1
2W1
-KM4
-KM5
U5
V5
W5
-M2
M
3~
-PE
123
-KM1
124
+WB
-EV
-ED1
ED1
ED2
125
103
-KA1
-KA2
-KA2
215
217
219
+WB
-PV
-YL
-YR
104

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

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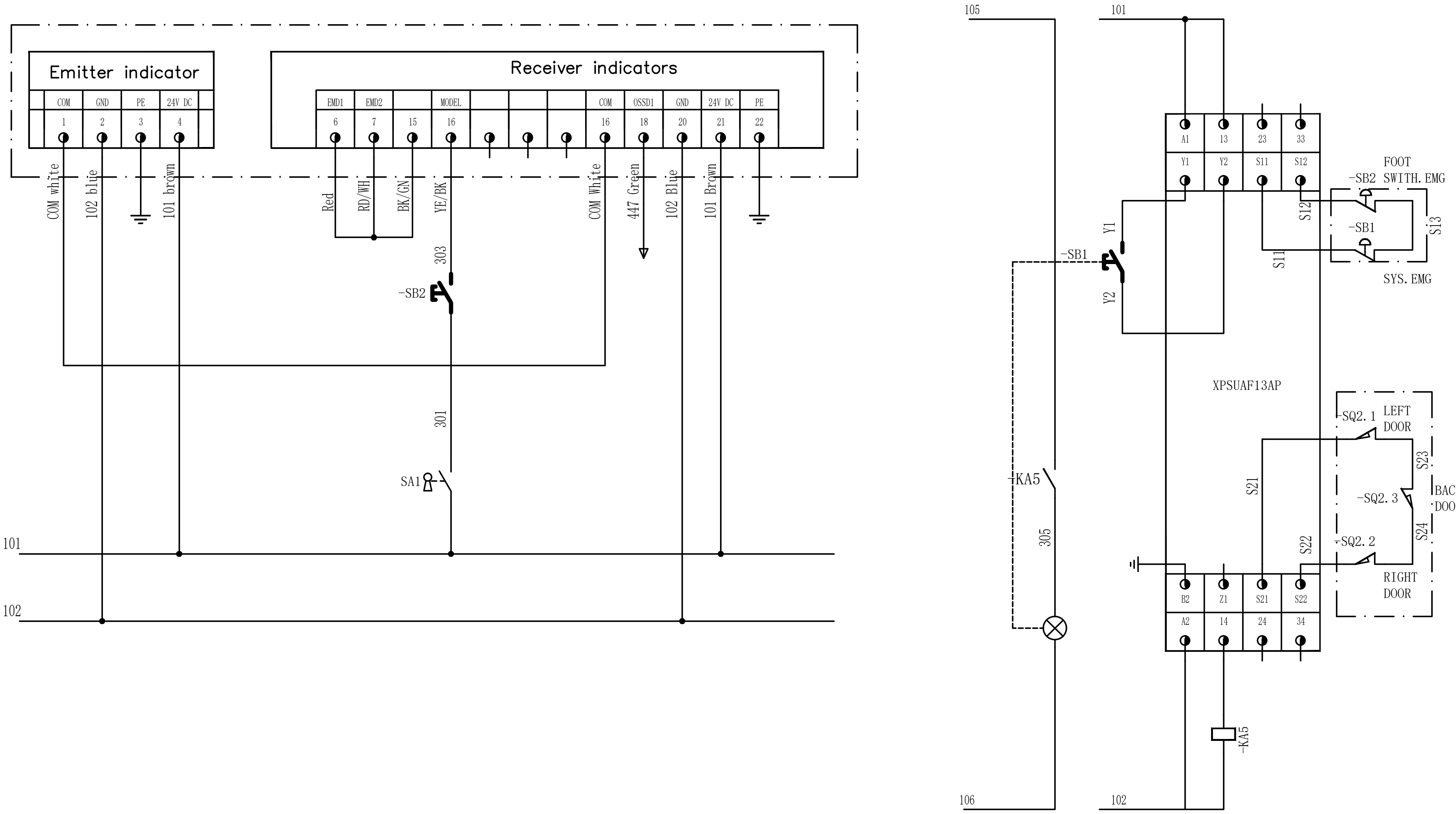
12

+A

2

LAZER SAFE

SAFETY MODULE


Emitter indicator
COM
GND
PE
24V DC
1
2
3
4
COM white
102 blue
101 brown
Receiver indicators
EMD1
EMD2
MODEL
COM
OSSD1
GND
24V DC
PE
6
7
15
16
16
18
20
21
22
Red
RD/WH
BK/GN
YE/BK
COM White
447 Green
102 Blue
101 Brown
303
-SB2
301
SA1
101
102
105
101
A1
13
23
33
Y1
Y2
S11
S12
FOOT
-SB2 SWITH.EMG
S12
-SB1
S13
S11
SYS.EMG
-SB1
Y1
Y2
XPSUAF13AP
-SQ2.1
LEFT
DOOR
S23
S21
BACK
DOOR
-SQ2.3
S24
S22
-SQ2.2
RIGHT
DOOR
-KA5
305
B2
Z1
S21
S22
A2
14
24
34
-KA5
106
102

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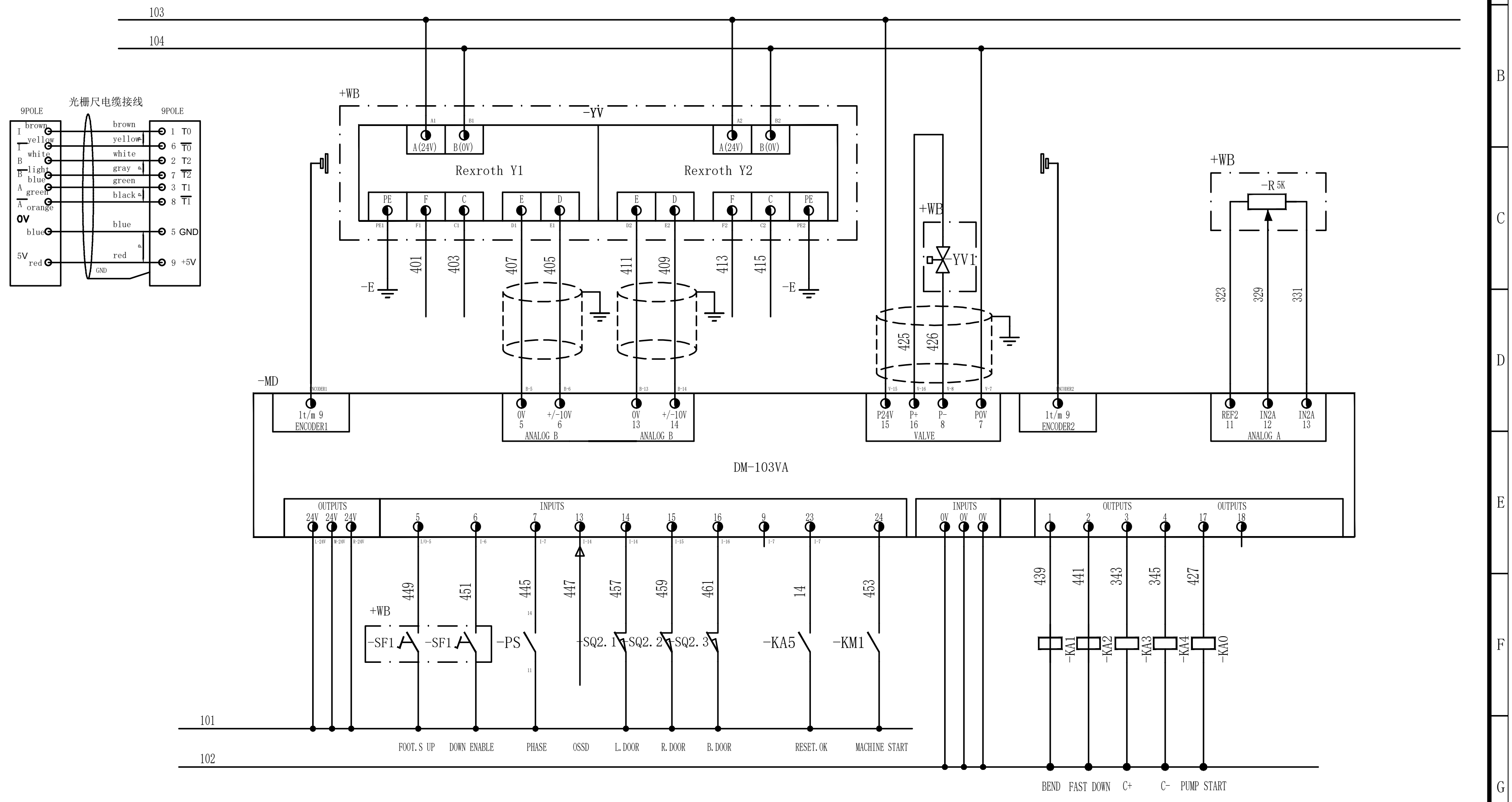
12

+A

3

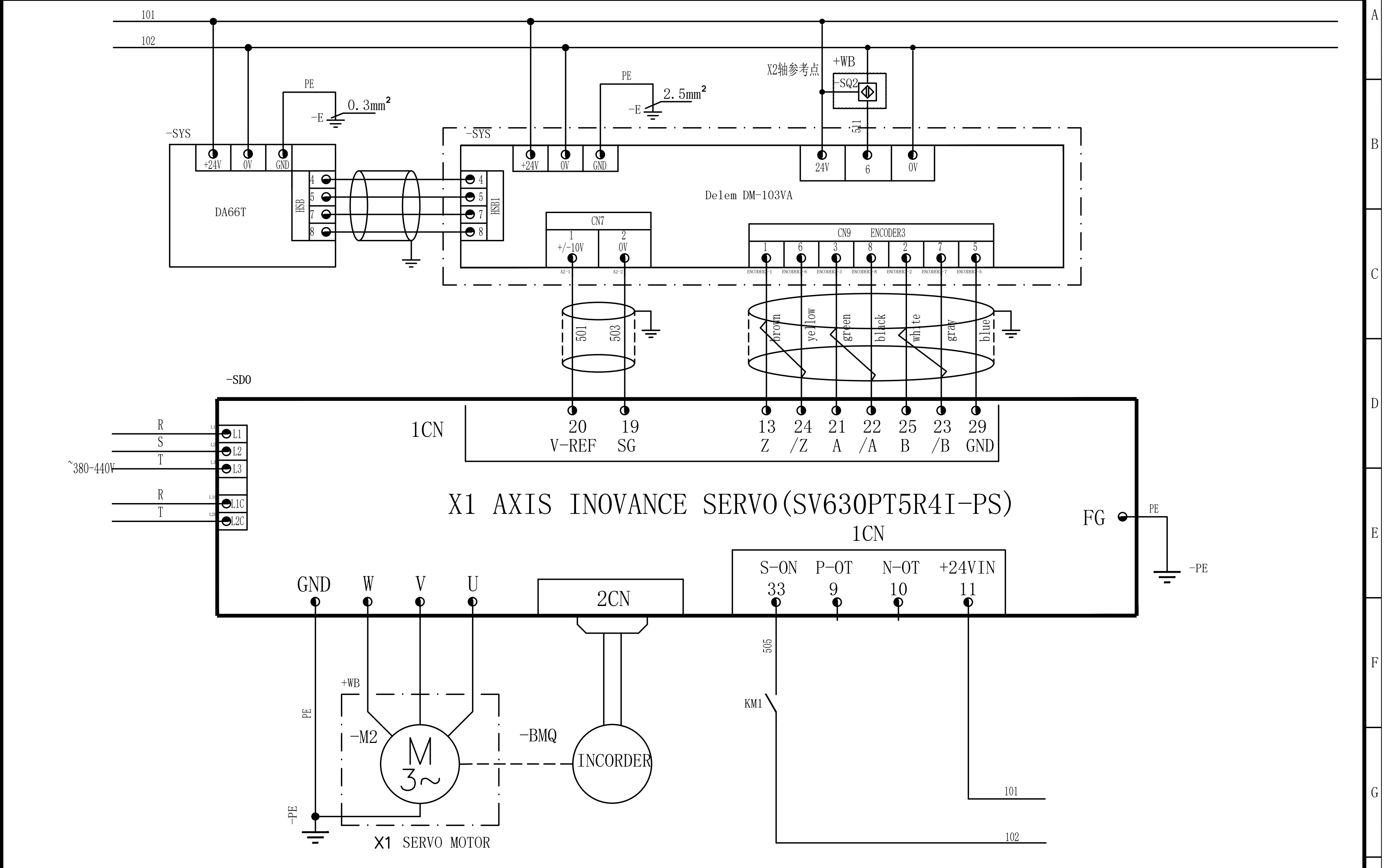
P-Y1Y2X1X2R1R2Z1Z2C-DA66T

Y1 Proportion valve	Y2 Proportion valve	Pressure valve	Crowning feedback


103
104
光栅尺电缆接线
9POLE
9POLE
brown
yellow
white
light
blue
green
orange
0V
blue
5V
red
GND
1 T0
6 T0
2 T2
7 T2
3 T1
8 T1
5 GND
9 +5V
gray
black
+WB
-YV
A(24V)
B(0V)
Rexroth Y1
Rexroth Y2
PE
F
C
E
D
-E
401
403
407
405
411
409
413
415
+WB
-YV1
425
426
+WB
-R 5K
323
329
331
-MD
1t/m 9
ENCODER1
0V 5
+/-10V 6
ANALOG B
0V 13
+/-10V 14
ANALOG B
P24V 15
P+ 16
P- 8
P0V 7
VALVE
1t/m 9
ENCODER2
REF2 11
IN2A 12
IN2A 13
ANALOG A
DM-103VA
OUTPUTS
24V
24V
24V
INPUTS
5
6
7
13
14
15
16
9
23
24
INPUTS
0V
0V
0V
OUTPUTS
1
2
3
4
OUTPUTS
17
18
449
451
445
447
457
459
461
14
453
439
441
343
345
427
+WB
-SF1
-SF1
-PS
-SQ2.1
-SQ2.2
-SQ2.3
-KA5
-KM1
-KA1
-KA2
-KA3
-KA4
-KA0
101
102
FOOT.S UP
DOWN ENABLE
PHASE
OSSD
L.DOOR
R.DOOR
B.DOOR
RESET.OK
MACHINE START
BEND
FAST DOWN
C+
C-
PUMP START

		NJSL-003	12
P-Y1Y2X1X2R1R2Z1Z2C-DA66T		+A	4

X1 Axis Servo control


101
102
-SYS
PE
-E
0.3mm²
+24V
0V
GND
DA66T
HSB
4
5
7
8
HSB1
-SYS
PE
-E
2.5mm²
X2轴参考点
+WB
-SQ2
511
24V
6
0V
Delem DM-103VA
CN7
1
+/-10V
2
0V
A2-1
A2-2
CN9 ENCODER3
1
6
3
8
2
7
5
ENCODER3-1
ENCODER3-6
ENCODER3-3
ENCODER3-8
ENCODER3-2
ENCODER3-7
ENCODER3-5
501
503
brown
yellow
green
black
white
gray
blue
-SD0
1CN
20 V-REF
19 SG
13 Z
24 /Z
21 A
22 /A
25 B
23 /B
29 GND
R
S
T
~380-440V
L1
L2
L3
R
T
L1C
L2C
X1 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
1CN
S-ON 33
P-OT 9
N-OT 10
+24VIN 11
GND
W
V
U
2CN
505
KM1
+WB
PE
-M2
M 3~
-BMQ
INCORDER
-PE
X1 SERVO MOTOR
101
102

NJSL-003

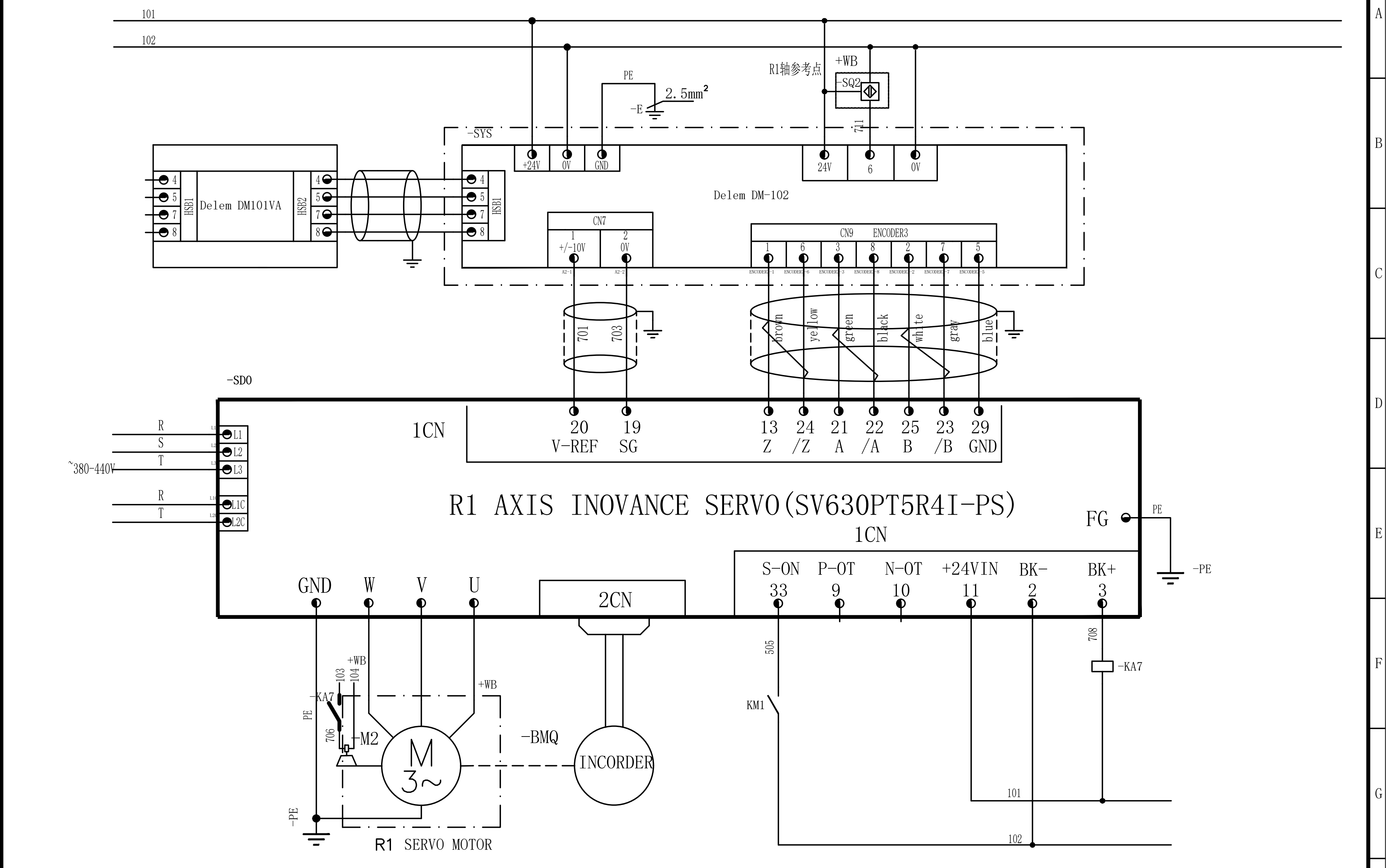
12

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

+A

5

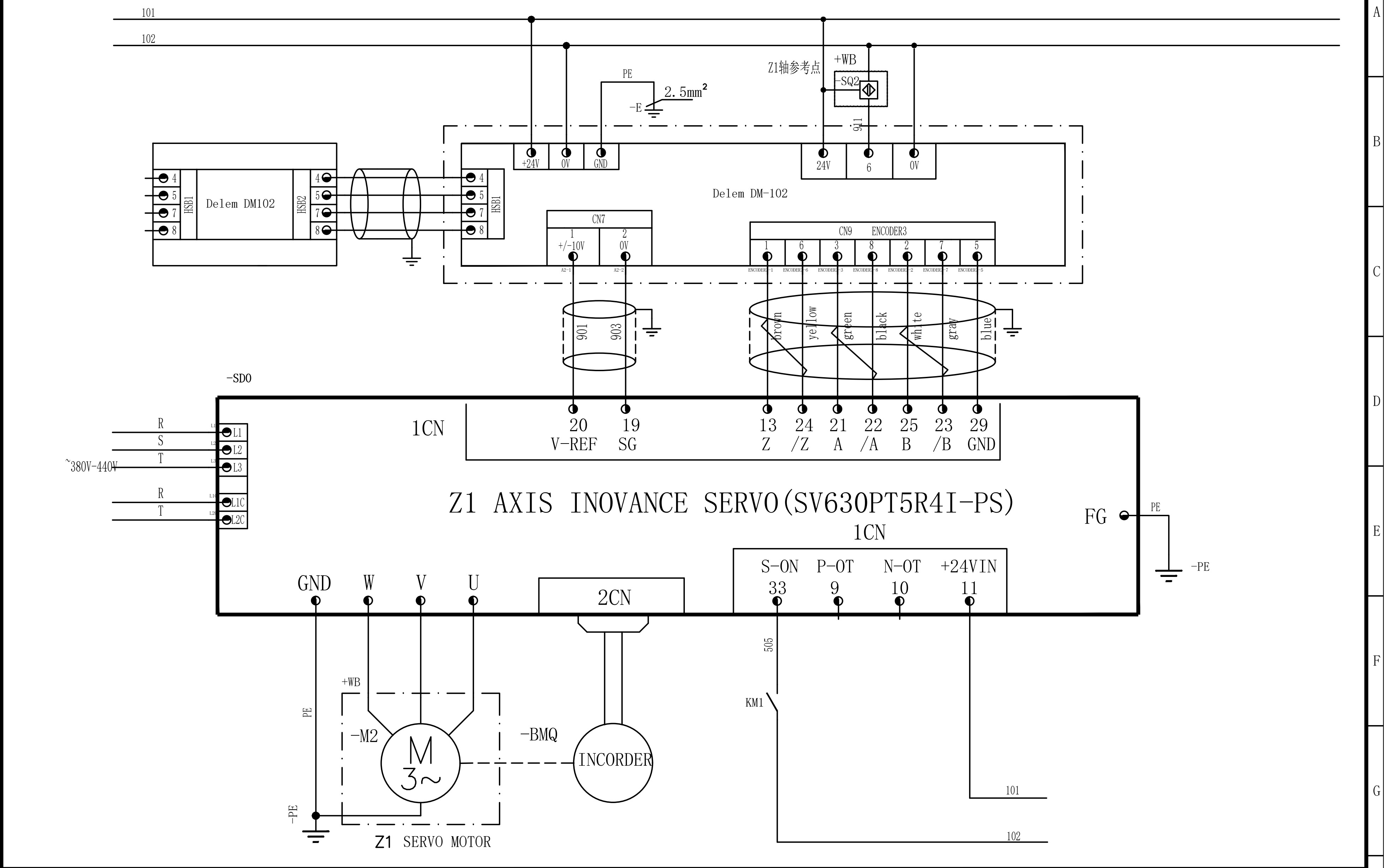
R1 Axis Servo control


101
102
PE
2.5mm²
-E
R1轴参考点
+WB
-SQ2
711
-SYS
+24V
0V
GND
24V
6
0V
Delem DM-102
HSB1
Delem DM101VA
HSB2
4
5
7
8
CN7
1
+/-10V
2
0V
CN9 ENCODER3
1
6
3
8
2
7
5
701
703
brown
yellow
green
black
white
gray
blue
-SD0
1CN
20
V-REF
19
SG
13
Z
24
/Z
21
A
22
/A
25
B
23
/B
29
GND
R
S
T
~380-440V
L1
L2
L3
R
T
L1C
L2C
R1 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
1CN
S-ON
33
P-OT
9
N-OT
10
+24VIN
11
BK-
2
BK+
3
GND
W
V
U
2CN
505
KM1
708
-KA7
+WB
103
104
-KA7
PE
706
-M2
M
3~
+WB
-BMQ
INCORDER
-PE
R1 SERVO MOTOR
101
102

NJSL-003	12
	7

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

Z1 Axis Servo control


101
102
Z1轴参考点
+WB
-SQ2
911
PE
2.5mm²
-E
+24V
0V
GND
24V
6
0V
Delem DM-102
Delem DM102
HSB1
HSB2
4
5
7
8
CN7
1 +/-10V
2 0V
CN9 ENCODER3
1 6 3 8 2 7 5
901
903
brown
yellow
green
black
white
gray
blue
-SD0
1CN
20 V-REF
19 SG
13 Z
24 /Z
21 A
22 /A
25 B
23 /B
29 GND
R
S
T
~380V-440V
L1
L2
L3
L1C
L2C
Z1 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
S-ON 33
P-OT 9
N-OT 10
+24VIN 11
GND
W
V
U
2CN
505
KM1
+WB
-M2
M 3~
-BMQ
INCORDER
Z1 SERVO MOTOR
101
102

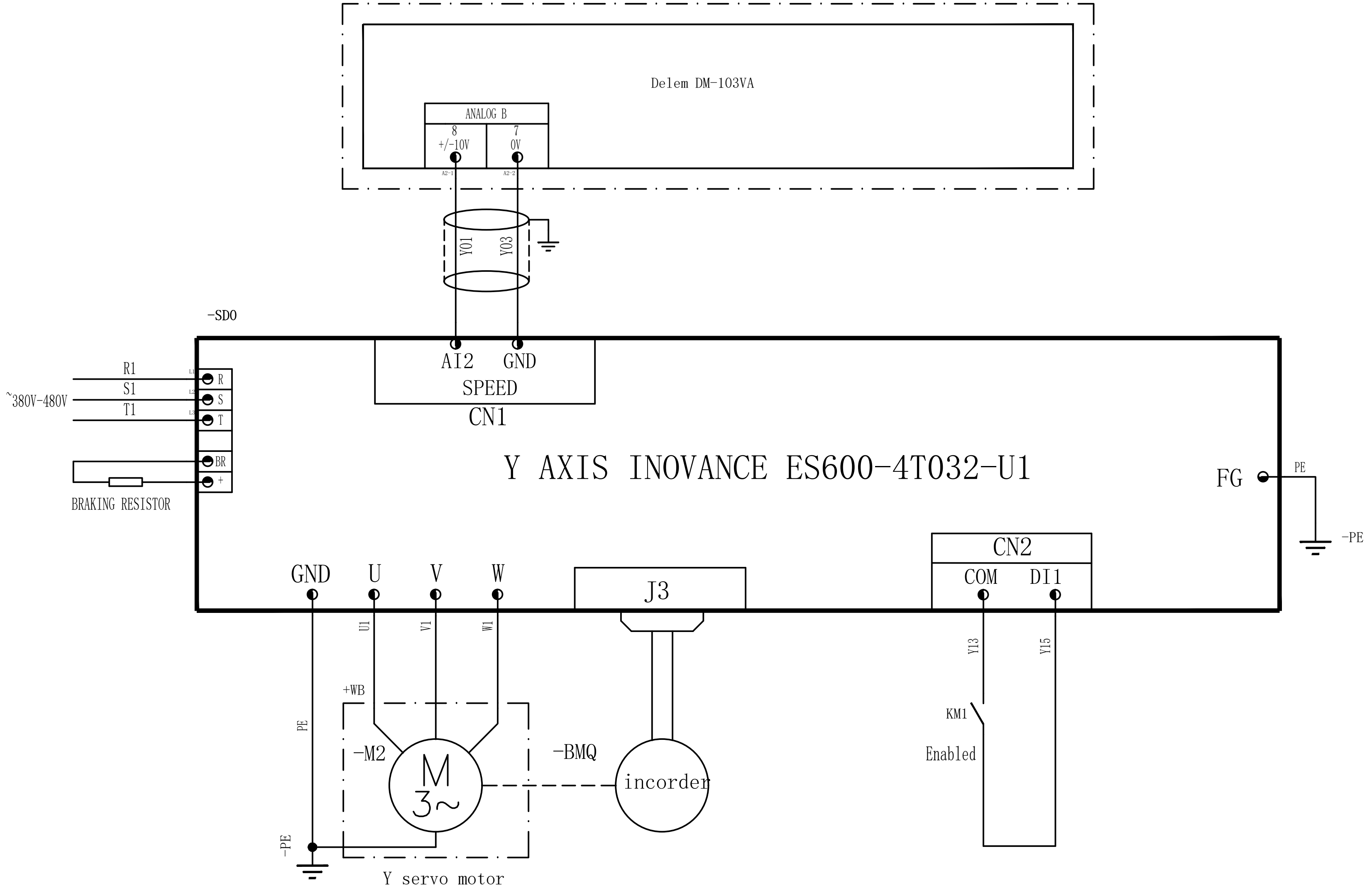
NJSL-003

12

9

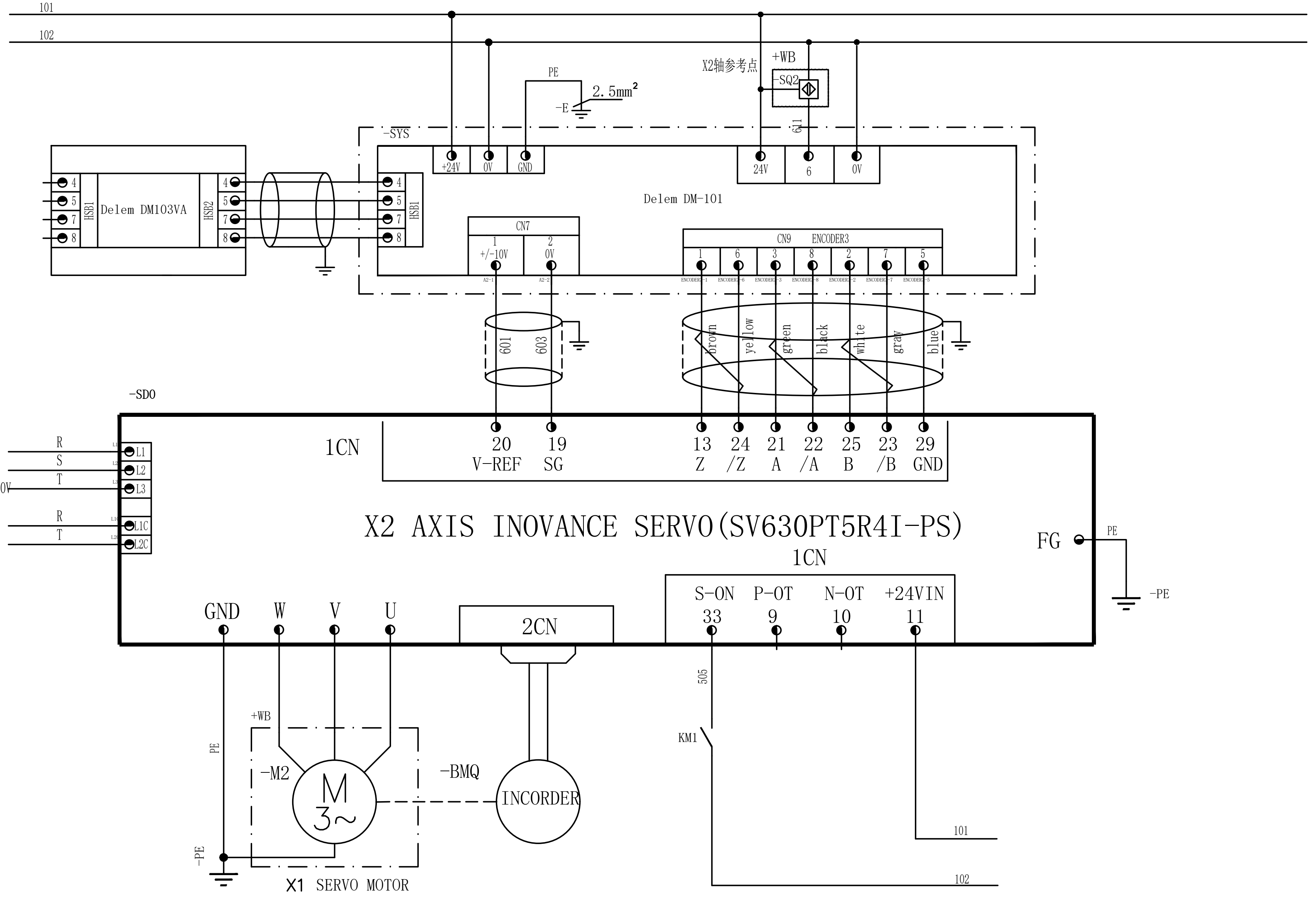
P-Y1Y2X1X2R1R2Z1Z2C-DA66T

Y Axis Pump Servo control


Delem DM-103VA
ANALOG B
8
+/-10V
7
0V
A2-1
A2-2
Y01
Y03
-SD0
R1
S1
T1
~380V-480V
L1
L2
L3
R
S
T
BR
+
BRAKING RESISTOR
AI2
GND
SPEED
CN1
Y AXIS INOVANCE ES600-4T032-U1
FG
PE
-PE
CN2
COM
DI1
GND
U
V
W
J3
U1
V1
W1
Y13
Y15
+WB
PE
-M2
M
3~
-BMQ
incorder
KM1
Enabled
-PE
Y servo motor

P-Y1Y2X1X2R1R2Z1Z2C-DA66T	NJSL-003		12
		+A	11

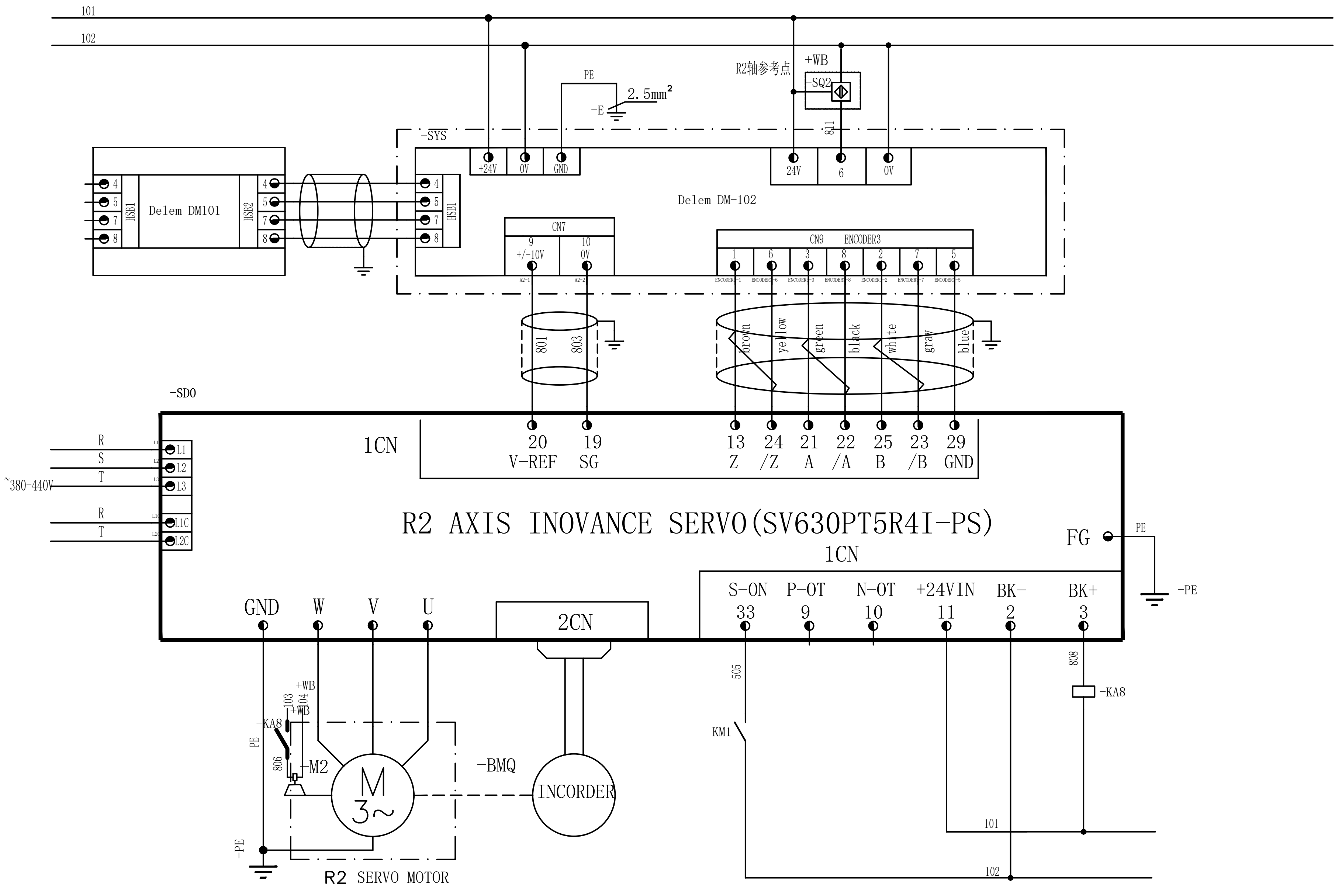
X2 Axis Servo control



101
102
PE
2.5mm²
-E
X2轴参考点
+WB
-SQ2
611
-SYS
+24V
0V
GND
24V
6
0V
Delem DM-101
HSB1
Delem DM103VA
HSB2
4
5
7
8
CN7
1
+/-10V
2
0V
CN9 ENCODER3
1
6
3
8
2
7
5
601
603
brown
yellow
green
black
white
gray
blue
-SD0
1CN
20 V-REF
19 SG
13 Z
24 /Z
21 A
22 /A
25 B
23 /B
29 GND
R
S
T
~380-440V
L1
L2
L3
R
T
L1C
L2C
X2 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
1CN
S-ON 33
P-OT 9
N-OT 10
+24VIN 11
GND
W
V
U
2CN
505
KM1
+WB
-M2
M 3~
-BMQ
INCORDER
PE
-PE
X1 SERVO MOTOR
101
102

P-Y1Y2X1X2R1R2Z1Z2C-DA66T	NJSL-003	12
	+A	6

R2 Axis Servo control


101
102
R2轴参考点
+WB
-SQ2
811
PE
2.5mm²
-E
-SYS
+24V
0V
GND
24V
6
0V
Delem DM-102
Delem DM101
HSB1
HSB2
4
5
7
8
CN7
9
+/-10V
10
0V
CN9 ENCODER3
1
6
3
8
2
7
5
801
803
brown
yellow
green
black
white
gray
blue
-SD0
R
S
T
~380-440V
L1
L2
L3
L1C
L2C
1CN
20
V-REF
19
SG
13
Z
24
/Z
21
A
22
/A
25
B
23
/B
29
GND
R2 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
1CN
S-ON
33
P-OT
9
N-OT
10
+24VIN
11
BK-
2
BK+
3
GND
W
V
U
2CN
505
808
-KA8
KM1
+WB
103
104
+WB
-KA8
PE
806
-M2
M
3~
-BMQ
INCORDER
-PE
R2 SERVO MOTOR
101
102

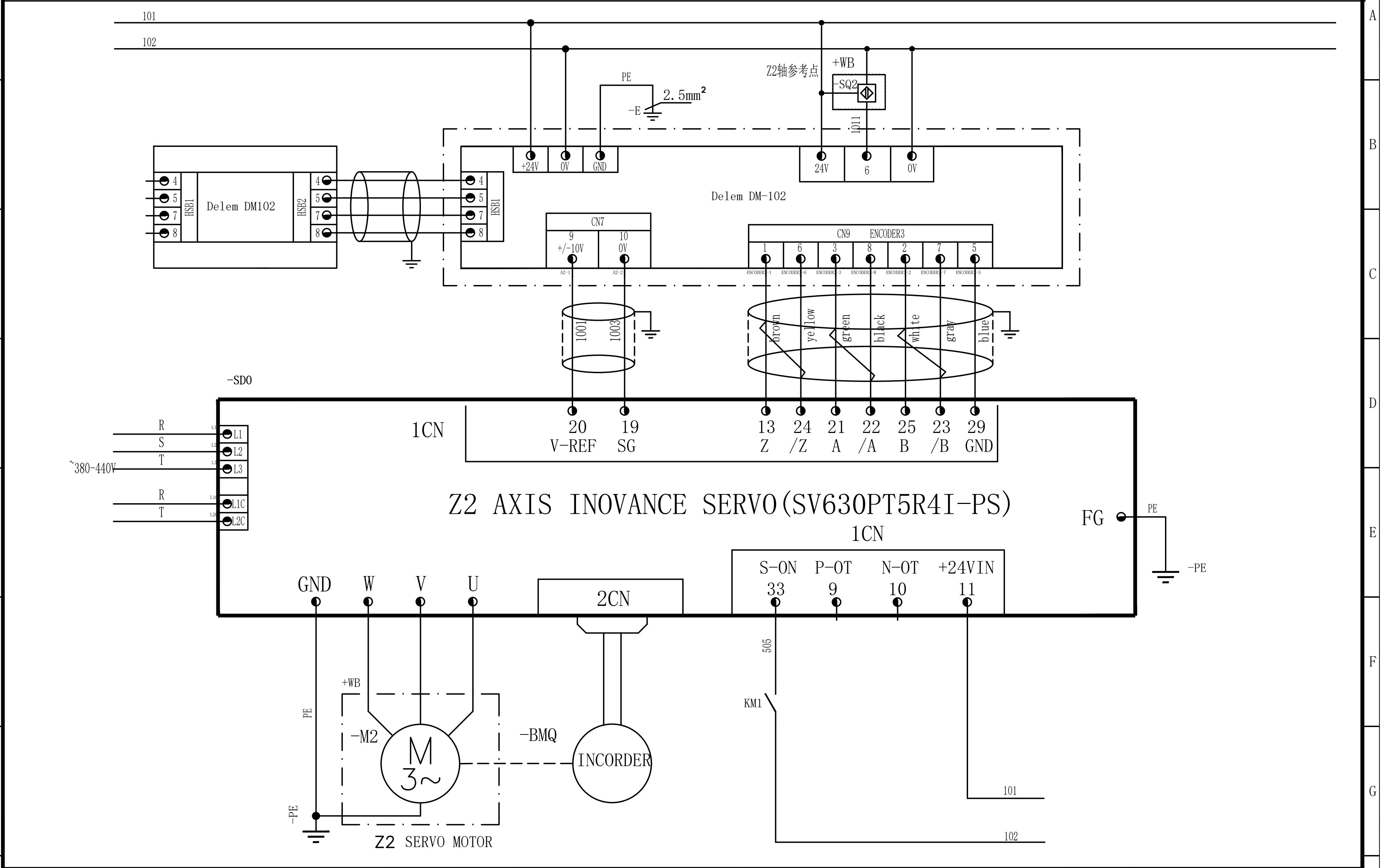
NJSL-003

12

8

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

Z2 Axis Servo control


101
102
Z2轴参考点
+WB
-SQ2
1011
PE
2.5mm²
-E
+24V
0V
GND
24V
6
0V
Delem DM-102
4
5
7
8
HSB1
Delem DM102
HSB2
CN7
9
+/-10V
10
0V
A2-1
A2-2
CN9 ENCODER3
1
6
3
8
2
7
5
ENCODER3-1
ENCODER3-6
ENCODER3-3
ENCODER3-8
ENCODER3-2
ENCODER3-7
ENCODER3-5
1001
1003
brown
yellow
green
black
white
gray
blue
-SD0
R
S
T
~380-440V
R
T
L1
L2
L3
L1C
L2C
1CN
20
V-REF
19
SG
13
Z
24
/Z
21
A
22
/A
25
B
23
/B
29
GND
Z2 AXIS INOVANCE SERVO(SV630PT5R4I-PS)
FG
PE
-PE
1CN
S-ON
33
P-OT
9
N-OT
10
+24VIN
11
GND
W
V
U
2CN
505
KM1
+WB
PE
-M2
M
3~
-BMQ
INCORDER
-PE
Z2 SERVO MOTOR
101
102

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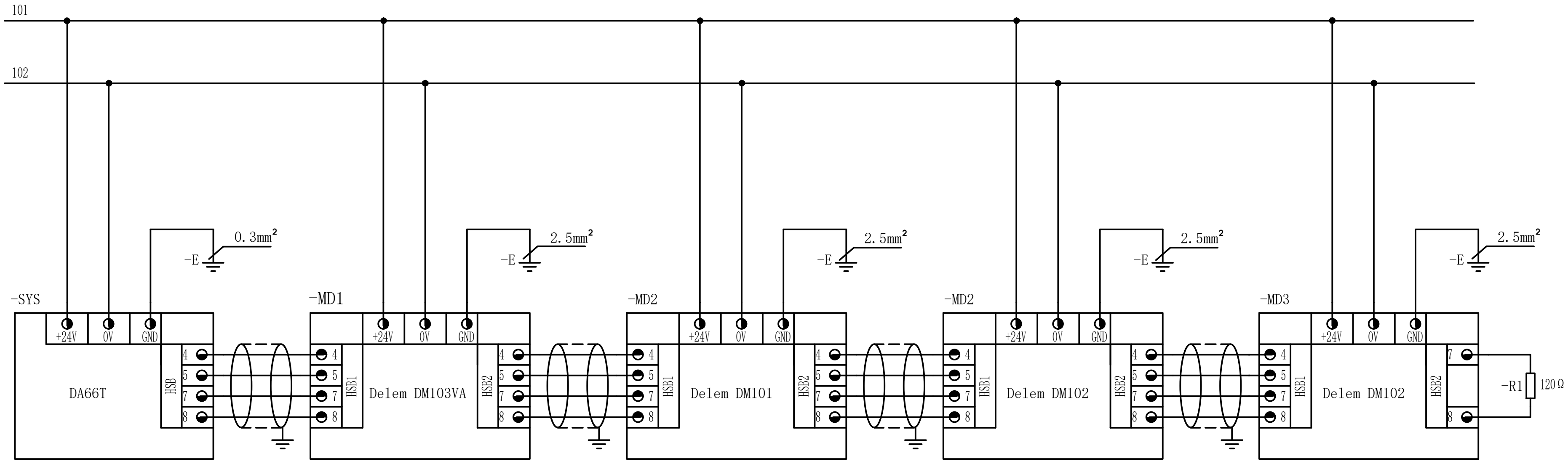
12

10

P-Y1Y2X1X2R1R2Z1Z2C-DA66T

CNC Controller	Y1/Y2/X Moduler	Pressure valve	Pressure valve	Crowning feedback


101
102
0.3mm²
-E
2.5mm²
-SYS
+24V
0V
GND
HSB
4
5
7
8
DA66T
-MD1
HSB1
Delem DM103VA
HSB2
-MD2
Delem DM101
-MD2
Delem DM102
-MD3
Delem DM102
-R1
120Ω

NJSL-003

7

+A

4

P-Y1Y2X1X2R1R2Z1Z2C-DA66T