
NC

Rev: V2 4

: 2016 10 10

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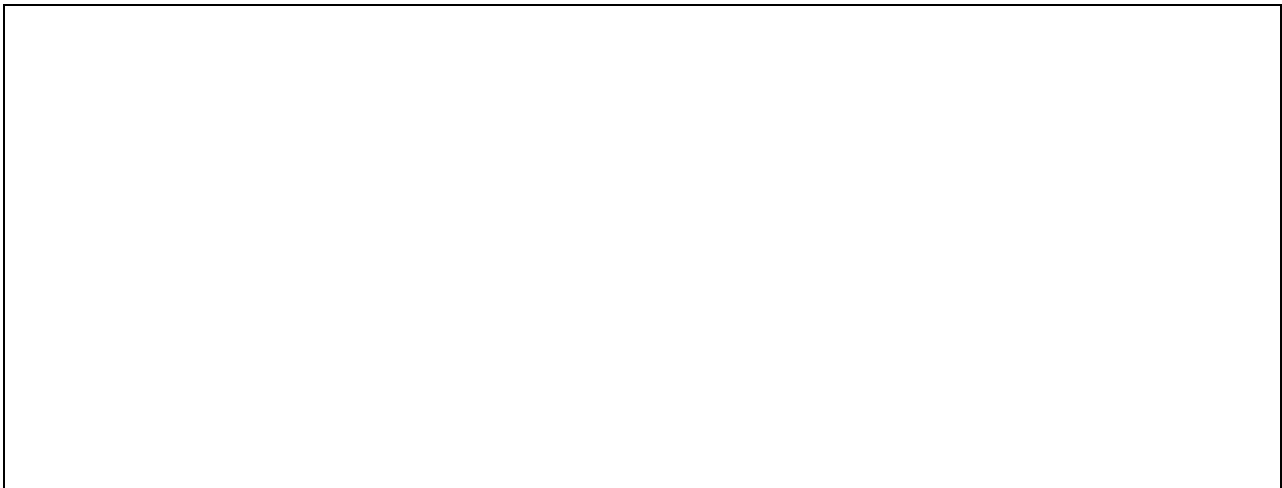
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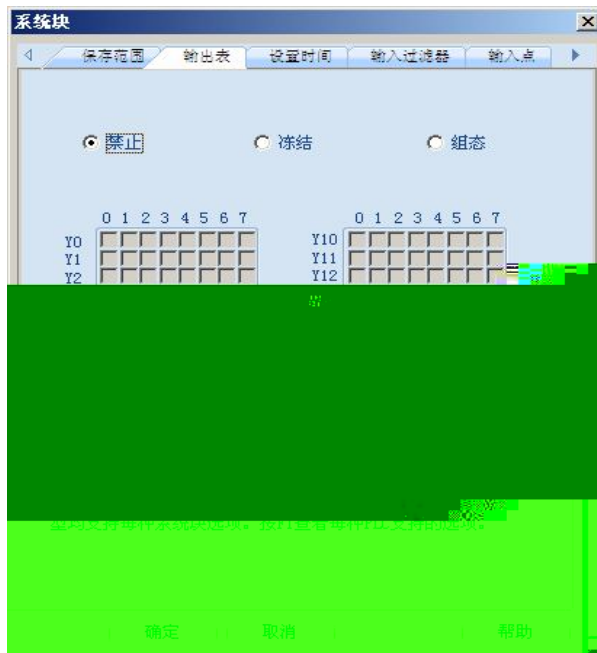
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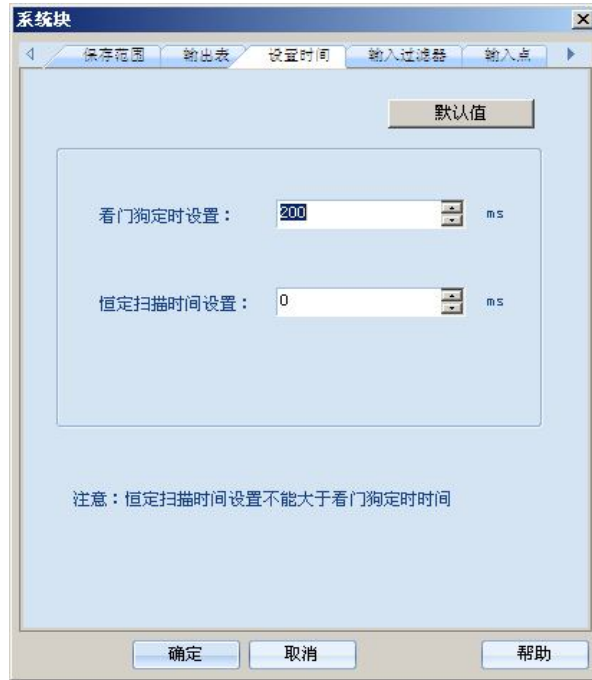
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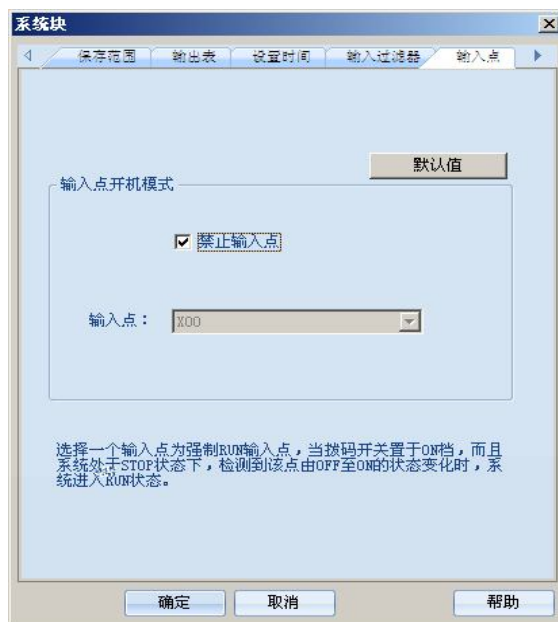
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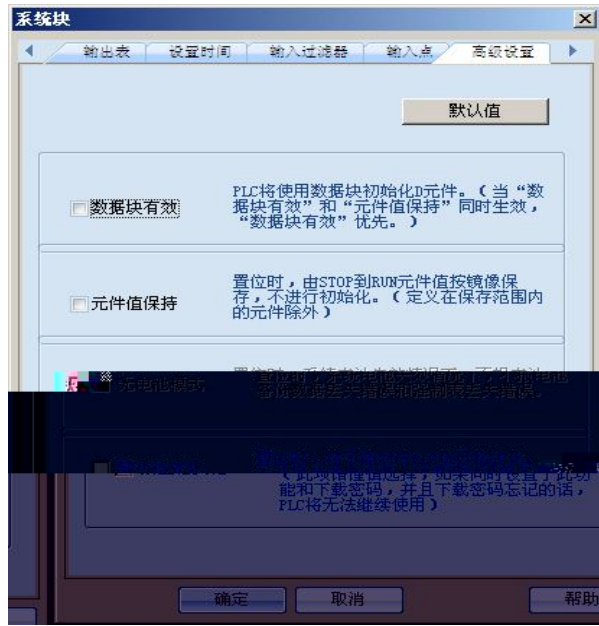
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选择模块类型后，双击鼠标或点击右面的“...”按钮可以对该模块进行详细设置，按[Delete]键可以将之删除。

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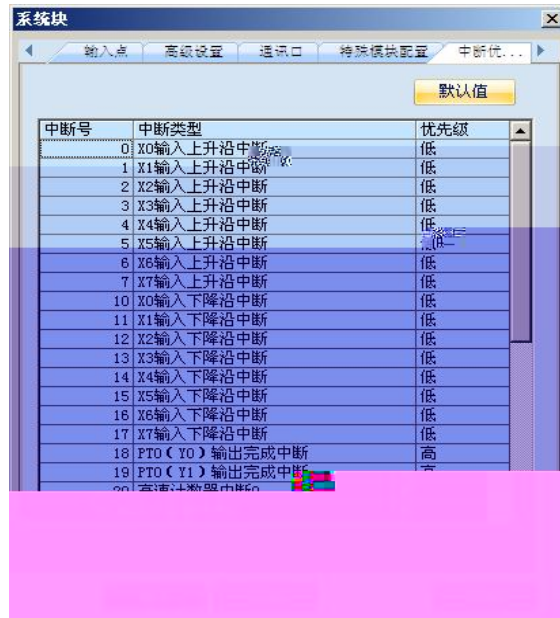
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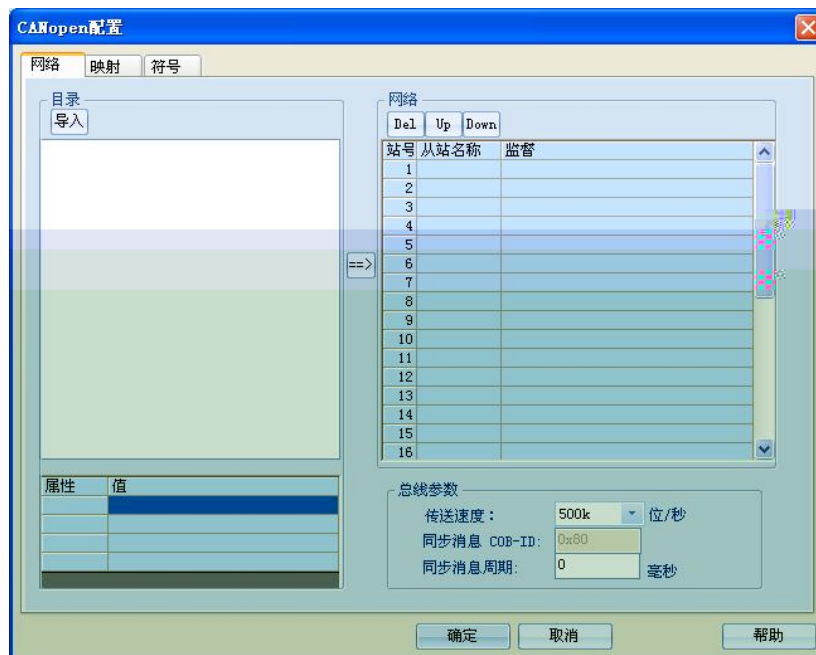
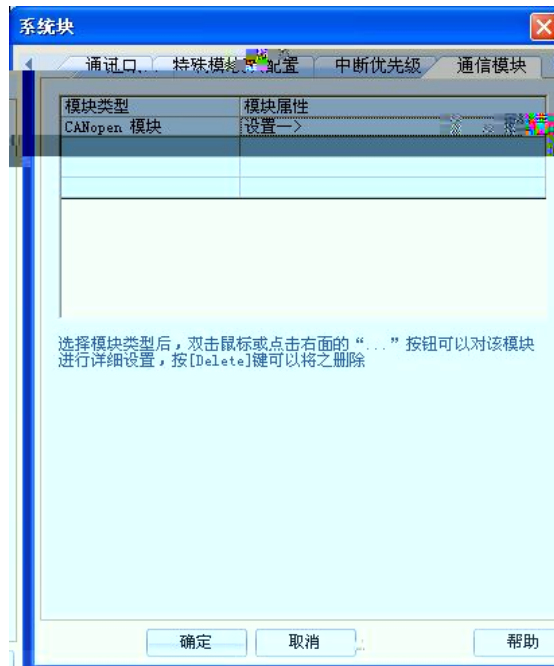


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4 原点回归	X1	原点回归
5 停止按钮	X0	停止按钮

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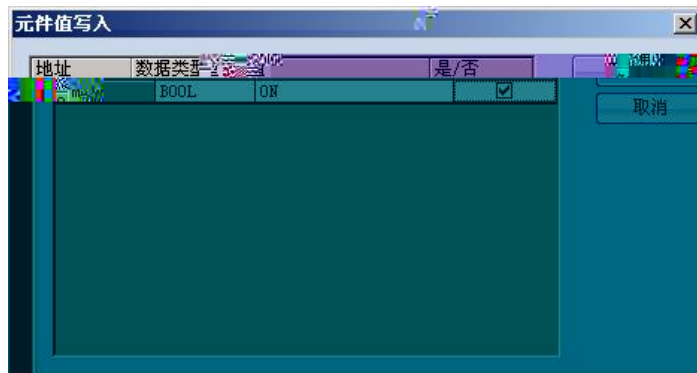
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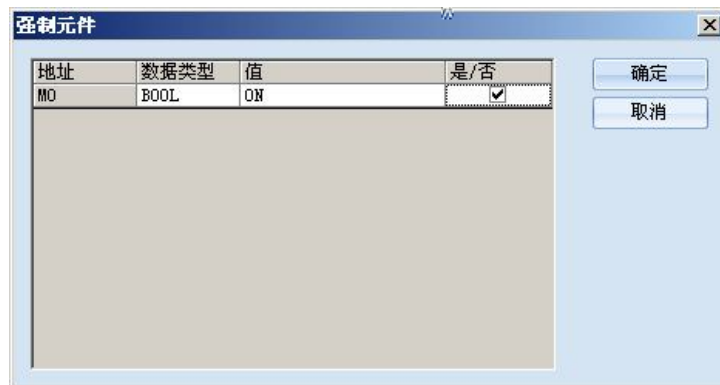
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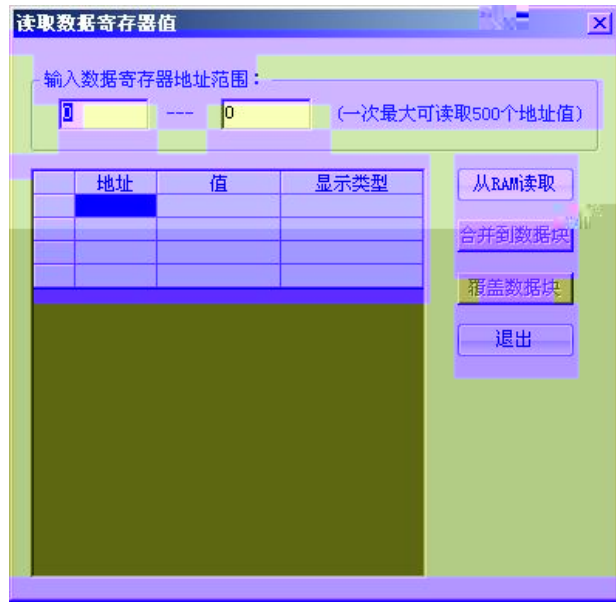
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3 D1	WORD	十进制	0	
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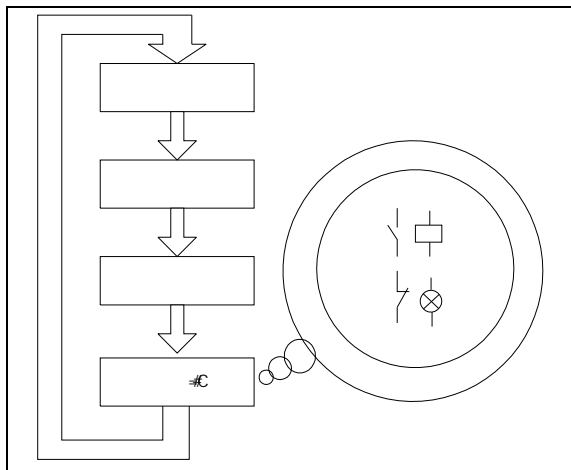
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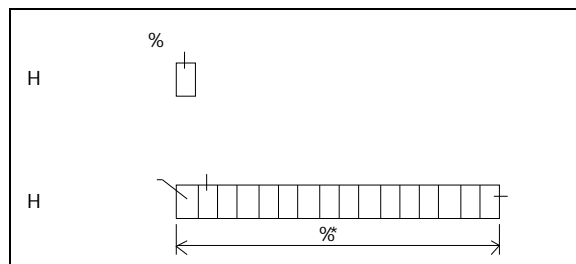
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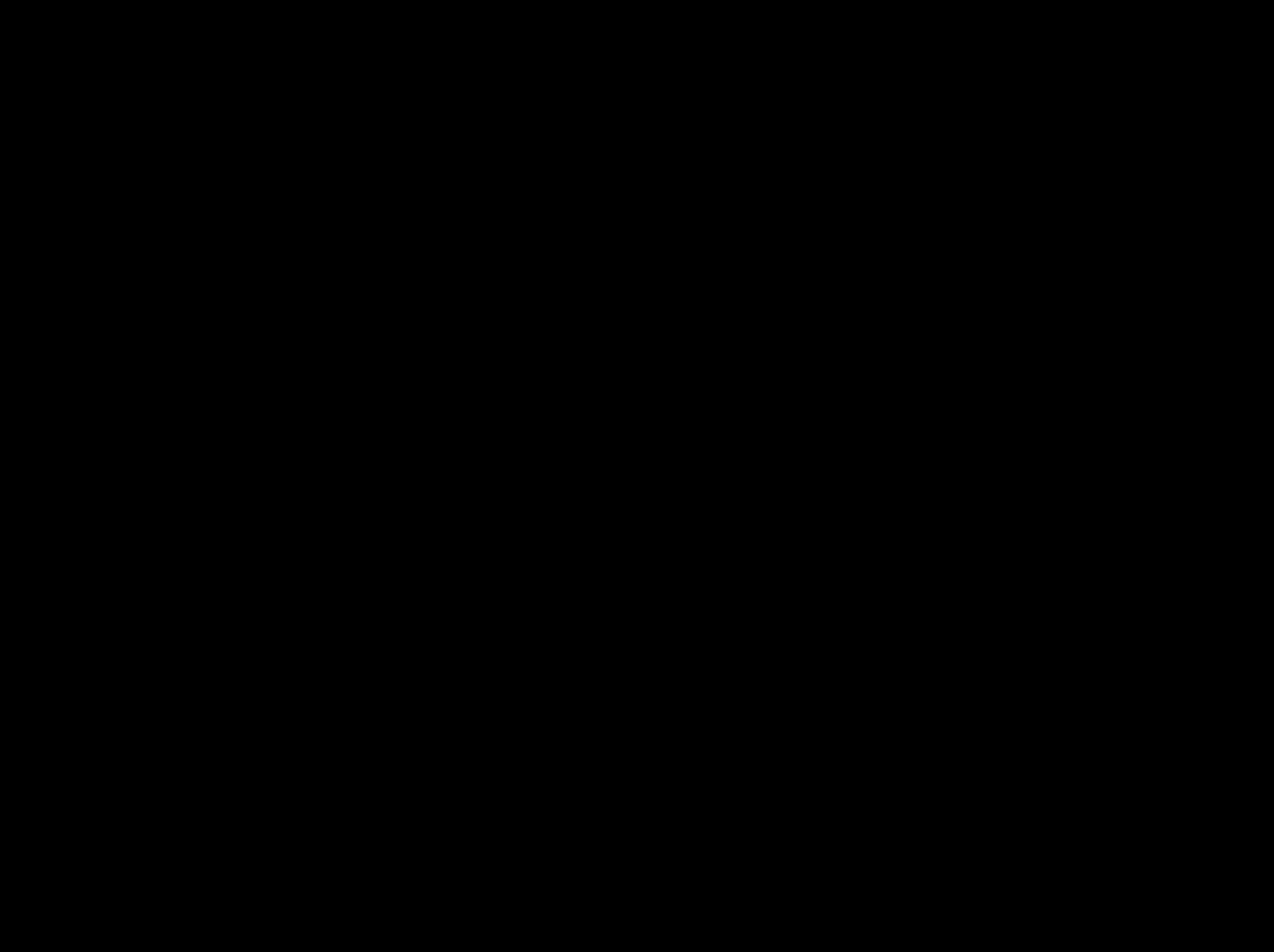
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% =BH

6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$
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& 8=BH

8fE	%															
6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$	
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fFZ%	6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$

K CF8

6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$
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(8K CF8

8fE	%															
6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$	
8Z%	%															
fFZ%	6]19)	%	%	%	%	%	-	,	+	*)	('	&	%	\$

8-BH 8K CF8 F95@ ' & 8 F J %
 8 F J ' &
 A 7&\$ D@7 6][9bX]Ub ' & ' &
 ' &
 % : 95, S*+85 8\$ 8%

8\$	\$: 95,
8%	\$: *+85

8 J % -BH K CF8 ' & 8-BH 8K CF8
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%nt% , 6]h

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%k cfX %6]h

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&k cfX ' &6]h

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D@7

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GA								
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? b@A	? bGA	8	G8	7		J		F
? b@A	? bGA	8	G8	7	H	J	N	F

A 7&\$ D@7

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	<pre> @8 L \$ CF L % 5B8 L % A DG CI H M \$ 5B8 L % CI H M % A DD 5B8 L & A DG CI H M & 5B8 L ' 5B8 L (CI H M A F 8 @8 L) 5B8 L * @8 L + 5B8 L % CF 6 5B 6 CI H M (A DD CI H M) </pre>
--	--

<pre> /*用户程序运行第一个周期，激活S0步进状态*/ SM1 [SET S0] /*步进状态S0的处理*/ S0 [S] Y0 [] M0 [SET S20] /*步进状态S20的处理*/ S20 [S] Y1 [] M1 [S0] [RET] </pre>	
--	--

DCI

221

LS6iJXf

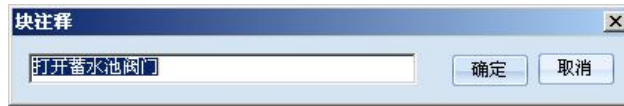
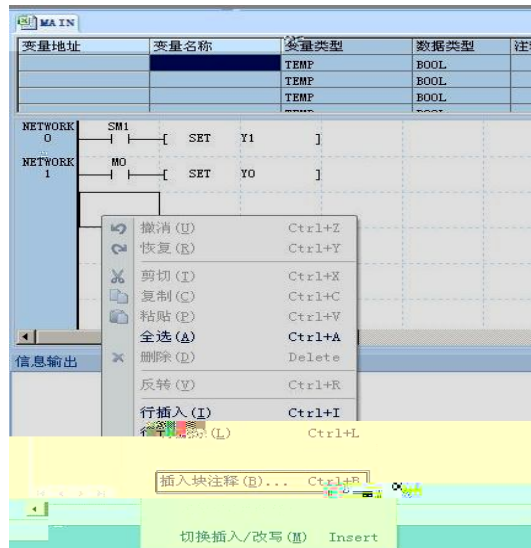
F 8 F

8 F

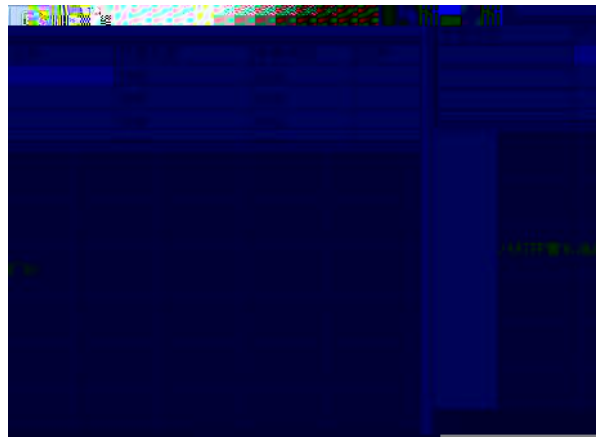
8

8 F

)*

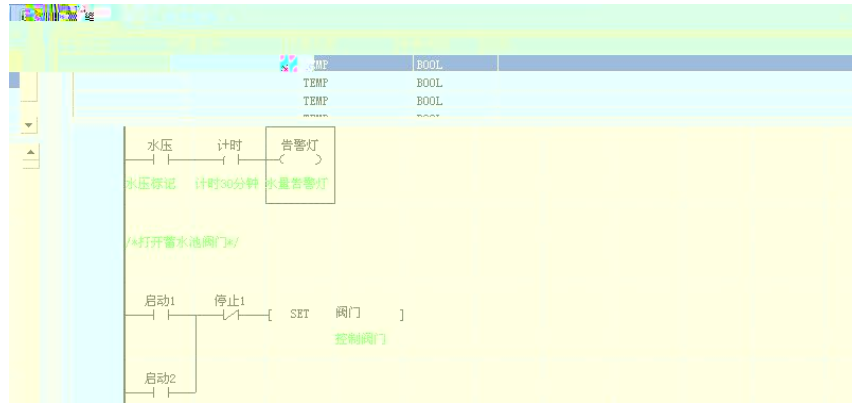


|



	变量名	变量地址	注释
1	水压	X0	水压标志
2	计时	T0	
3	启动1	M0	
4	启动2	M1	
5	停止1	M2	
6	告警灯	T0	水量告警灯

)



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- B
- CI H
- BSCI H
- H9A D

(

变量地址	变量名称	变量类型	数据类型	注释
V0	IN1	IN	INT	
V1	IN2	IN_OUT	INT	
		OUT	BOOL	
V2	OUT1	TEMP	INT	
		TEMP	BOOL	

SMO [ADD V0 V1 V2]

4-12

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- CI H% 8\$

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8 % 8% 8&

GD8

L\$ L+

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LAH

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F7J

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)"%&@B=*
)"% 5B8*(
)"%('5B=*(
)"%)'CF*(
)"%*CF=*)
)"%+CI H*)
)"%,'5B6**
)"%-'CF6**
)"%\$A DG*+
)"%%A F8*+
)"%&A DD*+
)"%%'9I*,
)"%%'98*,
)"%%'BJ*,
)"%%'G9H*_
)"%%'FGH*_
)"%%'BCD*_
)"&+\$
)"&'A 7+\$
)"&'A 7F+\$
)" 'G: 7+%
)" "%GH@ G: 7+%
)" "&G9H'G I G: 7+%
)" "'CI H'G I G: 7+%
)" "(FGH'G I G: 7+%
)" ")F9H G: 7+&
)"('+
)"("%HCB+
)"("&HCBF+
)"("HC:+(
)"("HA CB+(
)"'+
)"')%7HI %&+
)"')&7HF %&+
)"')'87BH ' &+*

										M200 M100 M80 M280			
										1			
G	6CC@	L	M	A	G	@A	GA	8l'm	7	H			

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										M200 M100 M80 M280			
										1			
G	6CC@	L	M	A	G	@A	GA	8l'm	7	H			

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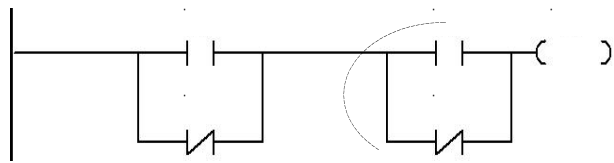
7&)* 7)%% H&)* H)%% G\$ G(\$-*

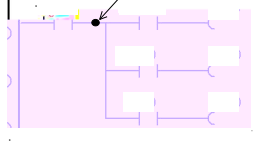
%

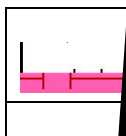
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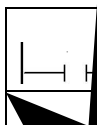
		M200 M100 M80 M280
		1



MC200

2

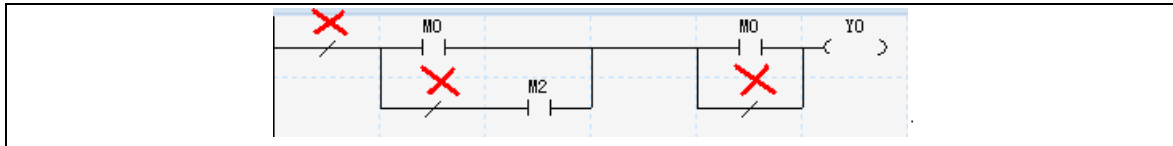
H↑ [SET



M

BJ

BJ



[SET (D)]										M200 M100 M80 M280				
										1				
G	6CC@		M	A	G	@A	GA		8l'm		7	H		



[RST (D)]										M200 M100 M80 M280				
RS										1				
G	6CC@		M	A	G	@A	GA		8l'm		7	H		



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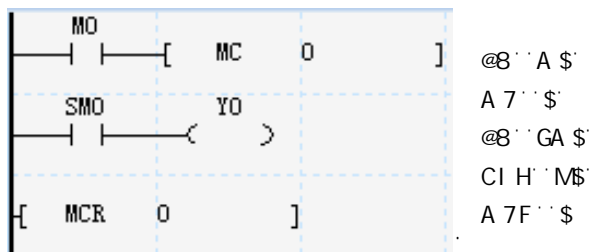
[NOP]										M200 M100 M80 M280			
										1			

[MC (S)]										M200 M100 M80 M280				
										3				
G	=BH													

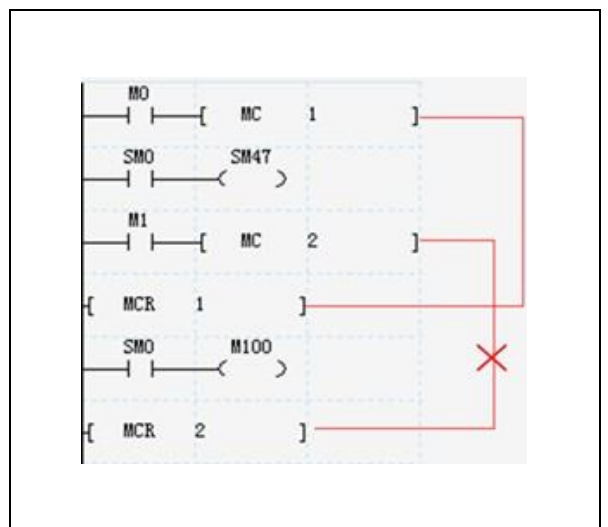
[MCR (S)]										M200 M100 M80 M280				
										1				
G	=BH													

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CI H HCB HC: DK A <7BH D@GM D@GF 8<G7G
 GD8 8<G7= 8<G7F 8<GN 8<GH 8<GD 6CI H




A \$ CB A 7!A 7F \$ M\$
 CB A \$ C:: A 7!A 7F \$
 CI H M\$
 M\$ C::



G: 7

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G	6CC@	G			

		M200	M100	M80	M280
[RET]					
RET		1			

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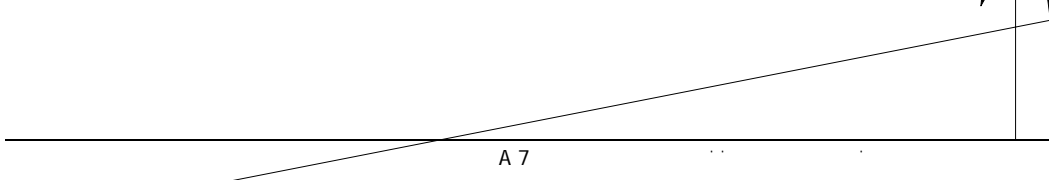
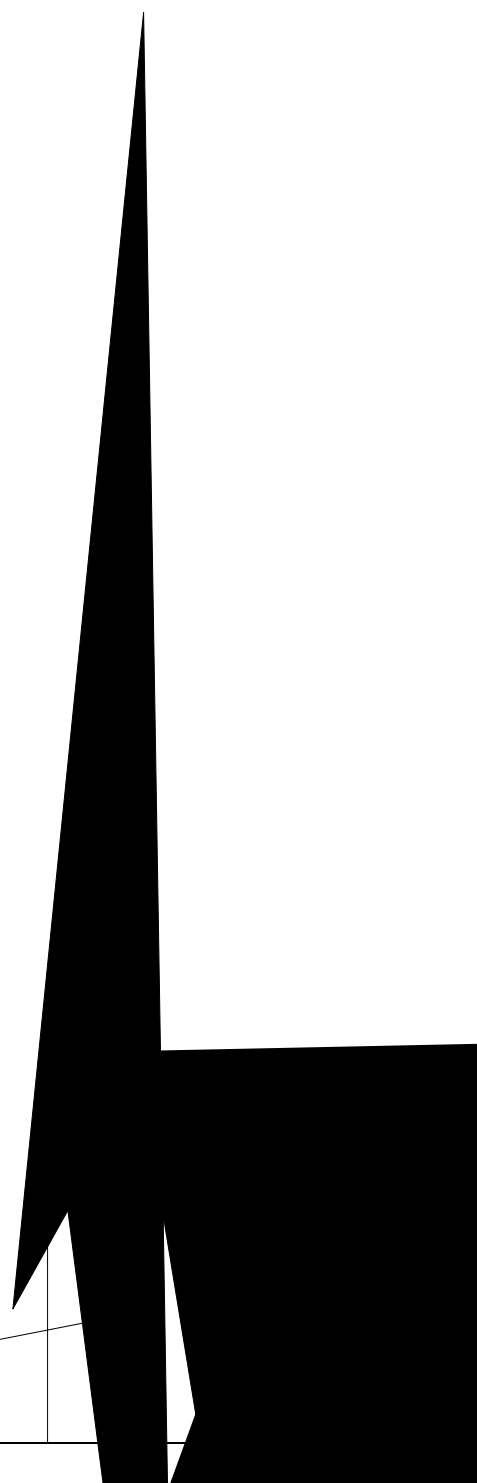
H

[...]		M200 M100 M80 M280
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0		M200 M100 M80 M250	
CTU (D) (S) 1			
		5	

8' -BH



— — [DCNT (D) (S)]		M200 M100 M80 M280
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*!%( 7>
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*!%) 7: 9B8
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*!%+ 9=
*****
*!%, 8=
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*!%- 7 9H
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*!%%75@@
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*!%&7GF9H
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*!&( 6A CJ
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*!&' ) : A CJ
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*!&* 8: A CJ
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*!&"- 8L 7<
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*"'% 88J                                     %$&
*"'% 8GEH                                     %$'
*"'% 8-B7                                     %$'
*"'% 88A 7                                     %$(
*"'% 8J 56G                                   %$(
*"'% 8B9;                                     %$(
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*"'(% 57CG                                     57CG %%
*"'(% 5H5B                                     5H5B %%(
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*) "%+ '8K LCF %& -
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*) "%+ '* '8FC@ ' & % '
*) "%+ '+ '8F7F ' & % '
*) "%+ ', '8F7@ ' & % (
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*"- )" '<CI F .....%%
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*"- "+ 'H7A D 1 0 2 02 21 01 .....%'
*"- ", '<HCG .....%(
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*"%$"( '8<GD= .....%-
*"%$") '8<G7F .....%$
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*"%$"+ '8<GH .....%&
*"%$", '8<GD .....%(
*"%$"- 'GD8 .....%*
*"%$"$ 'D@GM .....%+
*"%$"% 'D@GF .....%,
*"%$"%& 'D@G .....%+$
*"%$"% 'D@G6 .....%+%
*"%$"% 'DK A .....%+
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*"%%%D=8 .....%+(
*"%%%&F 5A D .....%+
*"%%%" '<57? @9 .....%+,
*"%%%( 'HF =5B; @9 .....%+-
*"%%%) '56G8 .....%$
*"%%%*" '856G8 .....% %
*"%%%+' 5@H .....% &
*"%&: .....%&
*"%&!"%A cXVi g .....%&

```

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*'%'("6#G CB% ,
*'%'(*86#G CB% ,
*'%'(+6CB CB% -
*'%'% -
*'%'@B @B% -
*'%'&6@B= @B=&\$ \$
*'%' "65B8 5B8&\$ \$
*'%'("65B= 5B=&\$ %
*'%'("6CF CF&\$ %
*'%'(*6CF= CF=&\$ &
*'%'(+6CI H&\$ &
*'%' ,6G9H&\$ '
*'%' -6FGH&\$ '
*'%'&\$ (
*'%'@B 1 0 2 02 21 01 [REDACTED] @B&\$ (
*'%'&5B8 1 0 2 02 21 [REDACTED]

*"%" 'GHFA CJ&&
 *"&%&&-
 *"&%"NF B&&-
 *"&%"D@GJ&' \$
 *"&%" '8FJ =&' %
 *"&%"('8FJ 5&' &
 *"&%" '56G&' '
 "&%" '8GNF 8C;&' (
 *"&%"+'GHCD8J&' *
 *"&%" '@B&' +
 *"&%"-'7K&' -
 *"&%"\$'77K&(\$
 *"&%"%A CJ 9@B?&(&
 *"&%"%; 95F6CL&' .
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 *"&%"%'75A H56@9&(' .
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 *"&%"&'K HC6&(+
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 *"&%"('1 B=&)\$
 *"&%"%'8-€



[FOR (S)]													M200 M100 M80 M280			
													3			
G	-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F	

[NEXT]													M200 M100 M80 M280			
													1			

```

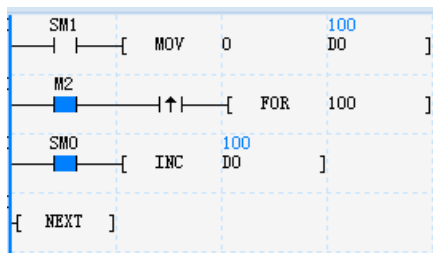
% :CF      B9LH      :CF!B9LH
& :CF
:CF!B9LH
      :CF!B9LH
:CF
:CF!B9LH
:CF!B9LH

```

```

% :CF!B9LH      DCI
& :CF!B9LH      A 7&$$      7DI
      :CF!B9LH
:CF!B9LH

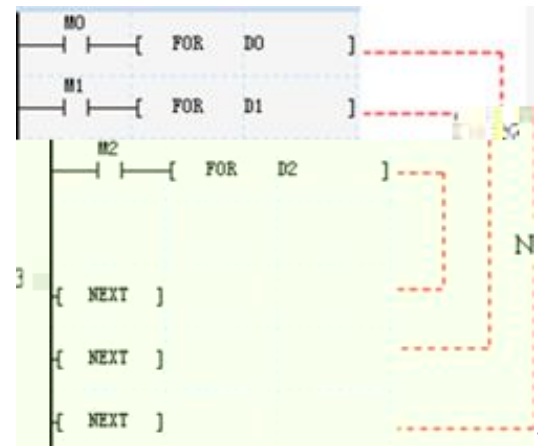
```



```

@B GA %
A CJ '$' 8$
@B A &
9I
:CF %$$
@B GA $
-B7 8%$$
B9LH'

```

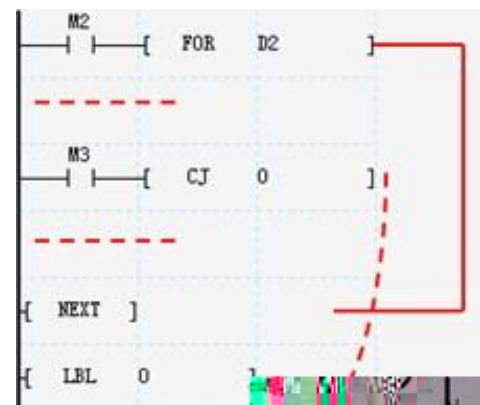


```

8$1$ A &1C:: A & C:: CB
:CF!B9LH %$$ 8$
%$$ 8$1%$$

```

7>



(7>

) A 7!A 7F :CF!B9LH

```

M3
| | | [ CJ 0 ]
-----
M2
| | | [ FOR D2 ]
-----
[ LBL 0 ]
-----
[ NEXT ]

```

```

MO
| | | [ FOR D1 ]
-----
SMO
| | | [ MC 0 ]
-----
[ NEXT ]
-----
[ MCR 0 ]

```



:CF!B9LH

K 8H

[LBL (S)]		M200 M100 M80 M280	
		3	
G	=BH		

%

&

7>

%

&

\$ %&+

```

[ LBL 0 ]
-----
MO
| | | [ CJ 0 ]
-----
SMO
| | | [ MOV 100 D0 ]
-----
| | | [ CFEND ]
-----
[ LBL 0 ]
-----
M1
| | | [ MOV 200 D0 ]

```

重要的标号定义

|—| |—| CJ (S)]		M200 M100 M80 M280	
		3	
G	BH		

|—| |—| [ WDT]		M200 M100 M80 M280
		1

Õ73B* V# E L á G' Htp

3+5' 0P35 W,0 / E I E Ñ P P, 345 Å öy 0PFp 3+54PP5 V,ð ™€ 0P

(, à

M200 M100 M80 M280

|—| |—| [EI]

		M200 M100 M80 M280
[CALL (子程序名) (参数1) (参数2)]		
Å		

75@@

% 75@@

75@@

& 75@@

G6F%

8-BH#8K CF8

- 75@@G6F%N\$ N
- 75@@G6F%7%- 7\$ 7%-
- 75@@G6F%? &L\$?b % b
G6F%
- 75@@G6F%7&\$ 7&\$ 7&)
- 75@@G6F%? &L\$?b (b

- 8-BH#8K CF8
- 8-BH#8K CF8
- 8-BH#8K CF8
- BH#K CF8
- BH#K CF8
- BH#K CF8

75@@

G6F%

CI H BSCI H

- 75@@G6F%' &%
- 75@@G6F%?(L\$?(L\$
- 75@@G6F%G8\$ G8\$

- CI H BSCI H
- CI H BSCI H
- CI H BSCI H

(75@@

		M200 M100 M80 M280
[CSRET]		
CSRET		1

| | [ MOV (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	N	F

% A C J

%\$

%%\$

%%\$ ())'

G

& 7 7\$ 7%-

X0	MOV	500	500
		D0	D10

@8 L\$

A C J 8\$ 8%

L\$1CB 8\$ 8% 8%1)\$

| | [ DMOV (S) (D)]										M200 M100 M80 M280					
										7					
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	Z				

L\$1CB

										M200 M100 M80 M280					
[RMOV (S) (D)]															
										7					
G	F95@								8				J		F
8	F95@								8				J		F

X0 [RMOV D0 D10] @8 L\$
 5.000050... 5.000050...
 FA CJ 8\$ 8\$
 L \$1CB 8\$8% 8\$8% 8\$8% 1) "\$\$\$) \$

										M200 M100 M80 M280					
[BMOV (S1) (D) (S2)]															
										7					
G%	=BH		? bL	? bM	? bA	? bG	? b@A		8	G8	7	H	J		F
8	=BH		? bM	? bA	? bG	? b@A		8		7	H	J		F	
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

X0 [BMOV D0 D100 10] @8 L\$
 300 300
 6A CJ 8\$
 8\$8\$ 8\$

										M200 M100 M80 M280					
										7					
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'
8'	=BH'			? bM'	? bA'	? bG'	? b@A'		8'		7'	H'	J'		F'
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'

% 7 7\$ 7%-
 & \$
 ' ?b ?b

X0 [FMOV DO 300 D100 10] @8' L\$
 : A C J ' 8\$ ' 8\$ \$
 %\$
 L\$1CB 8\$ 8\$ \$ %\$ 8\$ \$ 18\$ \$ %1
 18\$ - 18\$ 1' \$ \$

										M200 M100 M80 M280					
										9					
G%	8=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'		F'
8'	8=BH'			? bM'	? bA'	? bG'	? b@A'		8'		7'		J'		F'
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'

% 7 7&\$ 7&))
 & \$
 ' ?b ?b

X0 [FMOV DO 100000 D10 10] @8' L\$
 : A C J ' 8\$ ' 8\$ \$
 %\$
 L\$1CB 8\$ 8% 8\$ %\$ & 8\$ 8% 1
 8\$ 8% 1 1 8& 8&- 1 8\$ 8% 1\$ \$ \$ \$ \$

|---| |---| [ SWAP (D)]										M200 M100 M80 M280					
										3					
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

```

XO      10000
|---|---| [ SWAP DO ]

```

```

@8 L$
GK 5D 8$

```

```

L $1CB 8 $1$1 %&+ (%)
%$$$

```

```

8$ 8$1$1 &+ $

```

|---| |---| [ XCH (D1) (D2)]										M200 M100 M80 M280					
										5					
8%	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F
8&	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

%

A 7 D@7

&

```

/*用户人机界面访问DO D1，对用户来说是可见的*/
/*初始化时要记得交换数据位置，使它符合用户人机界面的规则*/

```

```

?b      D1
D2 ?b  "

```

%

```

XO      1000 5000
|---|---| [ XCH DO D10 ]

```

```

@8
L 7<

```

```

L $1CB 8$ 8%
8$1) $$$

```

8\$1%\$\$\$

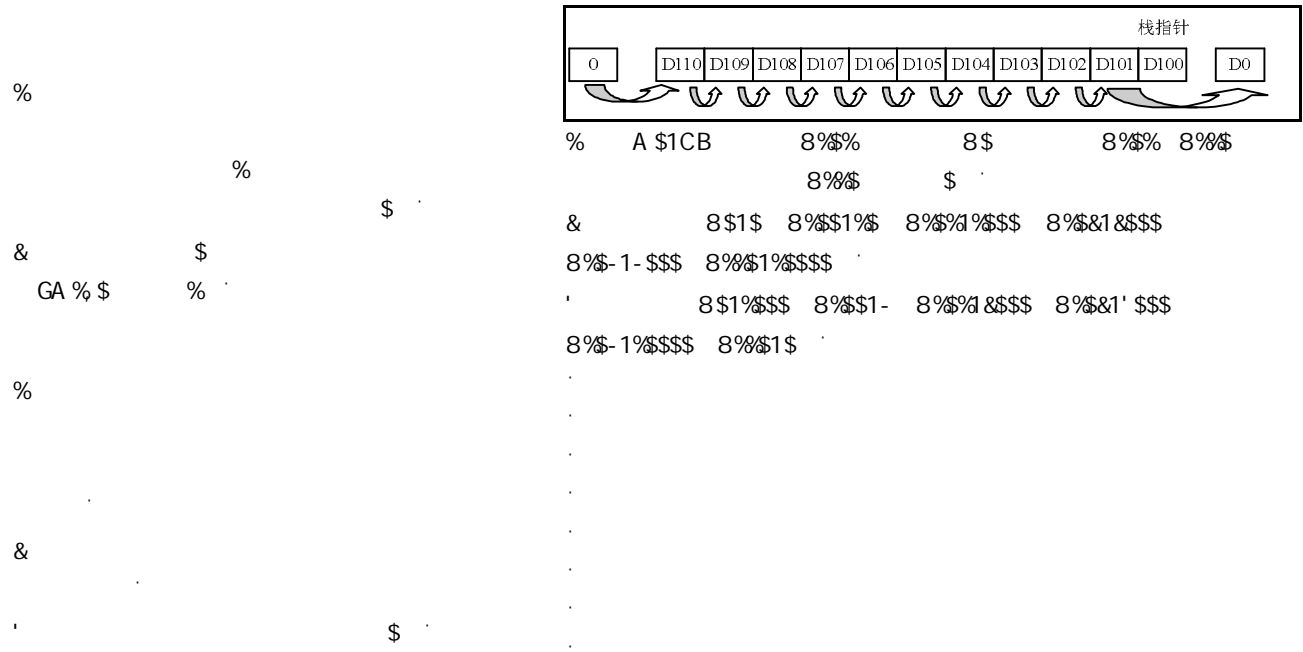
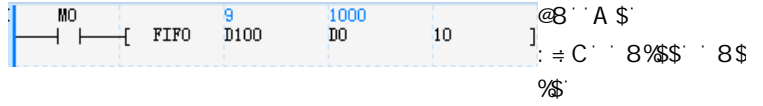
```

8$1%$$$ 8$1) $$$

```

&

FIFO										M200 M100 M50 M250					
										7					
8%	-BH								8			J	F		
8&	-BH		? bM	? bA	? bG	? b@A			8	7	H	J	N	F	
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	GS	7	H	J	N	F



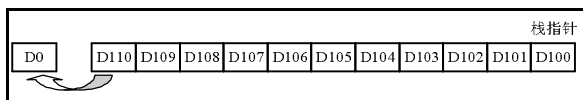
|---|---[ LIFO (D1) (D2) (S)]										M200 M100 M80 M280					
										7					
8%	=BH								8				J		F
8&	=BH		? bM	? bA	? bG	? b@A			8		7	H	J	N	F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%

MO										9					
|---|---[ LIFO D100 D0 10]										1000					

@8 A \$

@= C 8%\$ 8\$ %



%

%

% A \$1CB 8%\$ 8\$ 8%\$ 8%\$

&

\$

GA % \$

& 8\$1\$ 8%\$1%\$ 8%\$1%\$\$\$

%

8%\$&1&\$\$\$ 8%-1-\$\$\$ 8%\$1%\$\$\$

%

8\$1%\$\$\$ 8%\$1- 8%\$1%\$\$\$

8%\$&1&\$\$\$ 8%-1-\$\$\$ 8%\$1%\$\$\$

&

\$

M200 M100 M80 M280

[| | | |] WSFR (S1) (D) (S2) (S3)]

M200

 WSE! (S1) (S2) (S3)

|—| |—| [ ADD (S1) (S2) (D)]									M200 M100 M80 M280						
									7						
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%

&

X0	[ADD 1000 2000 3000]
	D0 D1 D10

588 8\$ 82(382\$ Y™ € \$ f6™ €™P

%

&

GA % %

\$

GA % \$

' &+*,

GA % &

|—| |—| [ SUB (S1) (S2) (D)]									M200 M100 M80 M280						
									7						
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH		? bM	? bA	? bG	? b@A			8		7	H	J	N	F

[MUL (S1) (S2)]										M200 M100 M80 M280					
										8					
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

A I @ ' &

X0	MUL	1000	2000	2000000
		D0	D1	D10

@8 L \$

A I @ ' 8\$ ' 8% ' 8%

L \$1CB 8\$ %\$\$\$ 8% &\$\$\$

8%8% 8%8% 1&\$\$\$\$\$

[DIV (S1) (S2) (D)]										M200 M100 M80 M280					
										7					
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

%
&

\$ \$

X0	DIV	2500	1000	2
		D0	D1	D10

@8 L \$

8= 8\$ ' 8%8%

L \$1CB 8\$ &\$\$\$ 8% %\$\$\$

8%8% 8%1& 8%1)\$\$

8

| | | [ SQT (S) (D)]										M200 M100 M50 M250					
										5					
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	-BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

= -> | 5

\$

%

X0	1000	31	@8 L\$
[SQT	D0	D10	GEH 8\$ 8\$

&

\$

L\$1CB 8\$ %\$\$\$ 8\$ 8\$1' %

GA % \$

GA % &

| | | [ INC (D)]										M200 M100 M50 M250					
										3					
8	-BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

| | [ DEC (D)]										M200 M100 M80 M280					
										3					
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*, '&+*

%

X0	999
[DEC D0]	

@8`L\$`
8A7`8\$`

L\$1CB 8\$ %\$\$\$ % 8\$1---

| | [ VABS (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*+ '&+*+ !'&+*,

X0	-1000	1000
[VABS D0 D10]		

@8`L\$`
J56G`8\$`8\$`

L\$1CB 8\$!\$\$\$ 8% 8%!\$\$\$

| | [ NEG (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*+ '&+*+ !'&+*,

@8`L\$`
B9;`8\$`8\$`

X0	1000	-1000
[NEG D0 D10]		

L\$1CB 8\$ %\$\$\$ 8% 8%!\$\$\$

|---| |---| [ DADD (S1) (S2) (D)]										M200 M100 M80 M280					
										10					
G%	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

%
&
GA % %
GA % \$
GA % &

8%+(, '*(+
\$
8%+(, '*(
GA % &

X0	100000	200000	300000
|---| |---| [ DADD D0 D2 D10]			

@8 L \$
8588 8\$ 8& 8%\$
L \$1CB 8\$8% %\$\$\$\$ 8&8'
&\$\$\$\$ 8%8% 8%8%
1' \$\$\$\$\$

|---| |---| [ DSUB (S1) (S2) (D)]										M200 M100 M80 M280					
										10					
G%	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

%
&
GA % %
GA % \$
GA % &

8%+(, '*(+
\$
8%+(, '*(
GA % &

X0	100000	200000	-100000
|---| |---| [ DSUB D0 D2 D10]			

@8 L \$
8G 6 8\$ 8& 8%\$
L \$1CB 8\$8% %\$\$\$\$ 8&8'
&\$\$\$\$ 8%8% 8%8%
%\$\$\$\$

|—| |—| [ DMUL (S1) (S2) (D)]										M200 M100 M80 M280					
										10					
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8						

| | [ DSQT (S) (D)]										M200 M100 M80 M280					
										7					
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8-BH			? bM	? bA	? bG	? b@A		8		7		J		F

\$

%

X0	83000	288
[DSQT	D0	D10

@8 L \$
8GEH 8\$ 8\$

& \$ L \$1CB 8\$8% , '\$\$\$ 8%8% 8%8%

GA % \$ 1& ,

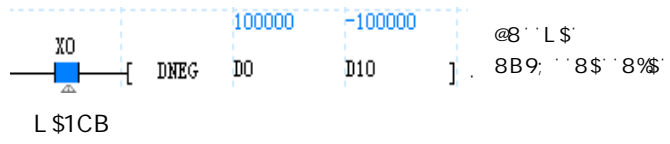
GA % &

| | [ DINC (D)]										M200 M100 M80 M280					
										4					
8															

|—| —| [ DDEC (D)]		M200 M100 M80 M280
--------------------	--	--------------------

| | [ DNEG (S) (D)]										M200 M100 M50 M250					
										7					
G	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

&%(,'*(+ &%(,'*(+ &%(,'*(,



| | [ DSUM (S1) (S2) (D)]										M200 M100 M80 M280				
										9				
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J		F
G&	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N F
8	8-BH			? bM	? bA	? bG	? b@A		8		7	J		F

&

SMD	[	DMOV	100000	100000	D0]	
	[	DMOV	200000	200000	D2]	
	[	DMOV	300000	300000	D4]	
	[	DMOV	400000	400000	D6]	
	[	DMOV	500000	500000	D8]	
XO	[DSUM	100000	5	1500000	D100]

@8 GA \$
 8A CJ %\$\$\$\$ 8\$
 8A CJ &\$\$\$\$ 8&
 8A CJ \$\$\$\$ 8(
 8A CJ (\$\$\$\$ 8*
 8A CJ)\$\$\$\$ 8,
 @8 L \$
 8G A 8\$) 8%\$

\$ &))

L \$1CB 8\$) &

8%\$8%\$

8%\$8%\$ 1 8\$8%

8, 8- 1) \$\$\$\$

| | [ RADD (S1) (S2) (D)]										M200 M100 M280				
										10				
G%	F95@								8			J		F
G&	F95@								8			J		F
8	F95@								8			J		F

GA %%

\$

GA % \$

%

&

XO	[RADD	-1000.20	2000.500	1000.300	D0	D2	D10]
----	---	------	----------	----------	----------	----	----	-----	---

@8 L \$
 F588 8\$8&8%

%

L \$1CB 8\$8%

!\$\$\$\$8\$

8&8'

&\$\$\$) \$\$

8%\$8%

8%\$8%

1!\$\$\$\$ \$

&

%+\$%&Y \$,

%+\$%&Y \$,



| | [ RVABS (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F

X0		-10000.2	10000.20
[	RVABS	DO	D10

@8 L\$
 FJ56G 8\$ 8%
 L\$1CB 8\$8% 1%\$\$\$&
 8\$8% 8\$8% 1%\$\$\$&

| | [ RNEG (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F

X0		10000.20	-10000.2
[	RNEG	DO	D10

@8 L\$
 FB9 8\$ 8%
 L\$1CB 8\$8% 1%\$\$\$&
 8\$8% 8\$8% 1%\$\$\$&

| | [ SIN (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F

& \$ GA % \$

X0		1.570000	1.000000
[	SIN	DO	D10

% G-B @8 L\$
 G-B 8\$ 8%

L \$1CB 8% 1% + G-B

8% 8% 1%

										M200 M100 M280			
[COS (S) (D)]													
										7			
G	F95@							8			J		F
8	F95@							8			J		F

X0		3.140000	-1.000000
[COS	D0	D10]

@8 L \$
7CG 8 8

L \$1CB 8% 1% 7CG

8% 8%

1!\$\$\$\$\$

%

7CG

&

GA % \$

										M200 M100 M280			
[TAN (S) (D)]													
										7			
G	F95@							8			J		F
8	F95@							8			J		F

X0		1.570000	1255.848
[TAN	D0	D10]

@8 L \$
H5B 8 8

L \$1CB 8% 1% + H5B

8% 8%

1%)", (, '-,

%

H5B

&

!%+\$%&Y \$,

!%+\$%&Y \$,

GA % %

\$

GA % \$

|—| |—| [ POWER (S1) (S2) (D)]										M200 M100 M280					
										10					
G%	F95@								8				J		F
G&	F95@								8				J		F
8	F95@								8				J		F

| | [ EXP (S) (D)]										M200 M100 M280			
										7			
G	F95@								8			J	F
8	F95@								8			J	F

X0	10.00000	22026.46
[EXP DO D10]		

@8 L\$
9LD 8\$ 8%

L \$1CB 8\$8% 1%\$ 9LD 8\$8% 8\$8%

% 9LD 1&&\$&*"(.(

&

+\$%(%&Y \$,

+\$%(%&Y \$,

GA % %

\$ GA % \$

| | [ RSLM (S1) (S2) (D)]										M200 M100 M280			
										9			
G%	F95@								8			J	F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8			J	F	
8	F95@							8			J	F	

&

% \$ &))

| | [ ACOS (S) (D)]										MC280			
5H5B f8 fD										7			
G	F95@							8			J	F	
8	F95@							8			J	F	

& \$ GA % \$

SMD	[ATAN	3.140000	1.262481	@8 GA \$
	DO	D10		5H5B 8 \$ 8 \$

%
H5B!

GA \$1CB f8 \$ 8 % ' % H5B! f8 \$ 8 % f8 \$
8 % 1 % & * & (, %

| | [ LOG (S) (D)]										MC280			
@C; f8 fD										7			
G	F95@							8			J	F	
8	F95@							8			J	F	

& \$ GA % \$

SMD	[LOG	3.000000	0.477121	@8 GA \$
	DO	D10		@C; 8 \$ 8 \$

% @C;
@C; % \$

GA \$1CB 8 \$ f8 % ' \$ 8 \$ f8 % 8 \$ f8 % 1 \$ (+ % %

| | [ RAD (S) (D)]										MC280			
F58 f8 fD										7			
G	F95@							8			J	F	
8	F95@							8			J	F	

%
& \$ GA % \$

SMD	[RAD	180.0000	3.141593	@8 GA \$
	DO	D10		F58 8 \$ 8 \$

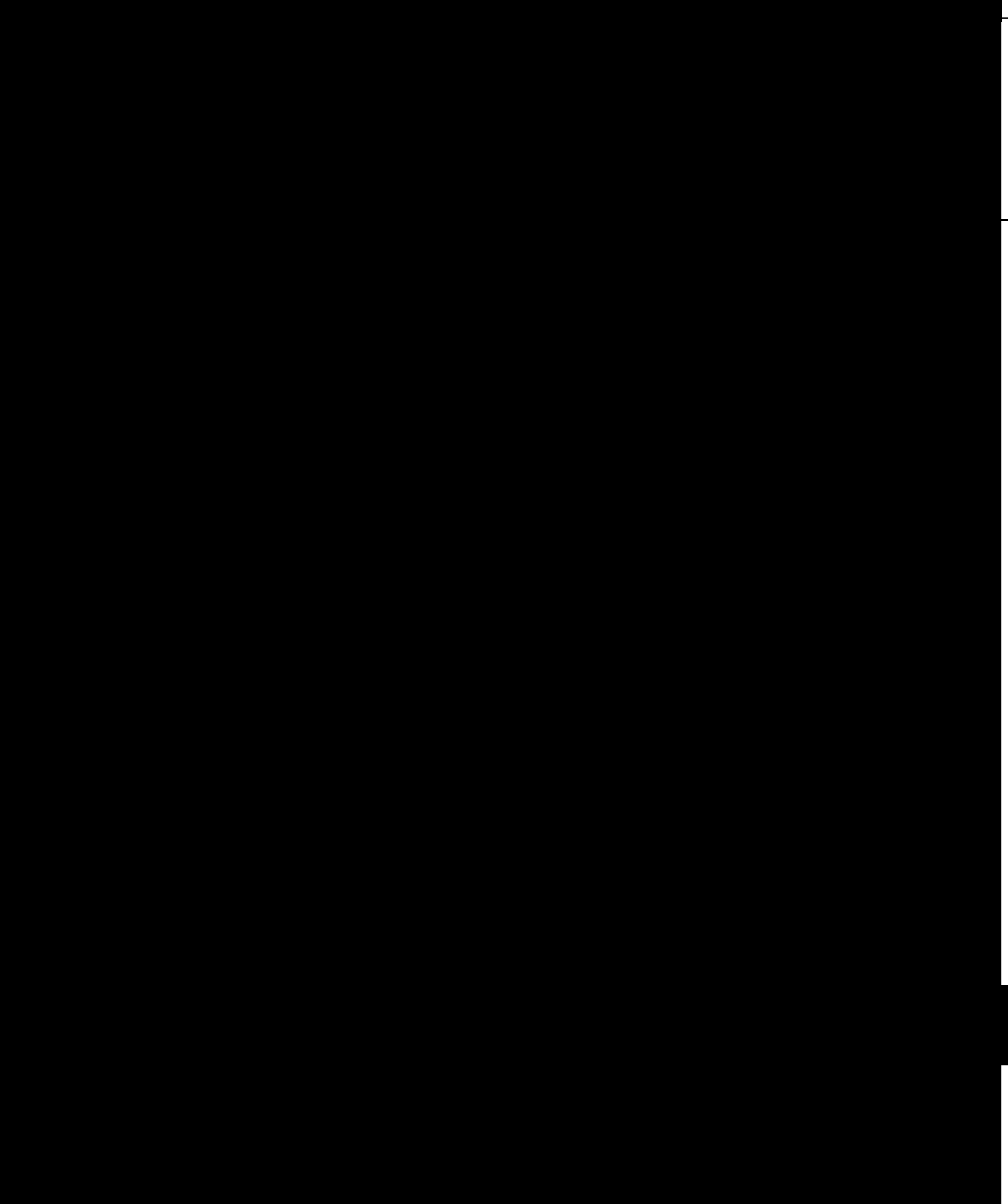
GA \$1CB

8\$FB%

% \$\$

8%\$FB% 8%\$FB% 1' % (%) -'

| | | [ DEG (S) (D)]		M280
89; fBE fDL		7



6CC@		%	CB C::	% @A
BH		%	! &+*, Z' &+*+	% J
8-BH		' &	!&%+(, '* (, Z&%+(, '* (+	& J
K CF8		%	\$ *)')'	% J
8K CF8		' &	\$ (& (-*+&-)	& J
F 95@		' &	-%%+)(-(')%9!' , r-'('\$& & (**'9Z" ,	& J

678 !! 678 6]bUfm7cXYX'8YMa U
 678 , (&%678
 , (&%678

\$	\$\$\$\$	\$\$\$\$
%	\$\$\$%	\$\$\$%
&	\$\$%\$	\$\$%\$
'	\$\$%\$	\$\$%\$
(\$%\$	%\$
)	\$%\$%	%\$%
*	\$%\$	%\$%
+	\$%\$%	%\$%
,	%\$	%\$
-	%\$%	%\$

|—| |—| [ DTI (S) (D)]										M200 M100 M80 M280					
										6					
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J	F		
8	BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

' &+*+ !' &+*,

X0	10000	10000
[DTI	D0	D10

@8 L\$
 8H= 8\$ 8\$

L \$1CB 8 \$z8% 1\$ \$\$\$ 8% 8% 1\$ \$\$\$

										M200 M100 M280					
| | [ INT (S) (D)]															
										6					
G	F95@								8				J		F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

' &+*+ 1' &+*+ !' &+*, 1!' &+*, #

%

3

X0	10000.50	10000
[INT	D0	D10]

@8 L\$
=BH '8\$ '8%

&

L\$1CB 8\$8% 1%\$\$\$)
8%1%\$\$\$ 8%

M200 M100 M280

| | [DINT (S) (D)]

		M200 M100 M80 M280
[BIN (S) (D)]		

[GRY (S) (D)]										M200 M100 M80 M280					
										5					
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

X0 [GRY 43690 85535 @8 L\$
 DO D10] ; FM —

3

%

| | [ DGBIN (S) (D)]										M200 M100 M80 M280			
										7			
G	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J	F
8	8K CF8			? bM	? bA	? bG	? b@A		8		7	J	F

XO 3435973836 2290649224 @B L\$
[DGBIN D0 D10] 8; 6-B 8\$ 8\$
L \$1CB 8\$8% 1\$ 777777777 '() - + , * '&
' & 8\$8% 8\$8% 1\$ && \$*(-&&)

| | [ SEG (S) (D)]										M200 M100 M80 M280			
-----------------	--	--	--	--	--	--	--	--	--	--------------------	--	--	--

		M200 M100 M80 M280													
| | [ ASC (S1 S8) (D)]															
		19													
G%	K CF8														
G&	K CF8														
G	K CF8														
G(	K CF8														
G)	K CF8														
G*	K CF8														
G+	K CF8														
G	K CF8														
8	K CF8								8		7	H	J	N	F

\$
 5G7 = \$! 8% \$! +9
 \$L \$\$

MO	[ASC 12345678 12849 DO]
----	---------------------------

@B A \$
 5G7 %& () *+, ' 8\$

A \$1CB 5G7 =

- GA % *1C: : **8\$A** \$! ' & %
 8% \$! ' (' 8& \$! ' *) 8' 1\$! ', '+
- GA % *1CB 8\$ \$! '% 8% \$! '&
 8& \$! ' ' 8' 1\$! ' (8(1\$! ') 8) 1\$! ' * 8* 1\$! ' +
 8+ 1\$! ' ,

5G7 =
 GA % *1C: :
 5G7 = GA % *1CB
 % 5G7 =

M200 M100 M80 M280

| | [ITA (S1) (D) (S2)]

| | [ITA (S1) (D) (S2)]

- GA % *1C: :
- 8&8a \$l ' *' +

| — | — [ ATI (S1) (D) (S2)															
G%			? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8				? bM	? bA	? bG	? b@A		8		7	H	J	N	F
G&			? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

5G7=

\$l '\$ \$l ' - \$l (%) \$l (* GA % *1C: :

[Redacted]

(S2)	(D)	(S3)	1		M200 M280
[Redacted]					

% *(

D@7

V_{MH}

V_M

V_{SL}

V_{SH}

S_n

D_n

A f V_{SL} V_{SH} V_M V_{MH} %\$\$\$\$

B V_{SL} f V_M A#\$\$\$\$

D_n f S_n A#\$\$\$\$ B

D_n ' &+*+ ' &+*+
!' &+*, !' &+*,

M1	[	MOV	282	282	D1000]	
	[	MOV	3530	3530	D1001]	
	[	MOV	260	260	D1002]	
	[	MOV	3650	3650	D1003]	
M4	[	MOV	282	282	D100]	
	[	MOV	3530	3530	D101]	
	[	MOV	1906	1906	D102]	
	[	MOV	0	0	D103]	
	[	MOV	5000	5000	D104]	
	[	MOV	-115	-115	D105]	
M2	[	LCNV	282	282	D1000	D200	6

@8 = A %

FA CJ ' & & ' 8\$\$\$

FA CJ ' ')' \$ ' 8\$\$\$

FA CJ ' & * \$ ' 8\$\$\$

FA CJ ' ' *) \$ ' 8\$\$\$

@8 = A (

FA CJ ' & & ' 8\$\$\$

FA CJ ' ')' \$ ' 8\$\$\$

FA CJ ' % * \$ ' 8\$\$\$

FA CJ ' \$ ' ' 8\$\$\$

FA CJ ') \$\$\$ ' 8\$\$\$

FA CJ ' ! %) ' 8\$\$\$

@8 ' ' A &

F@7BJ : 8\$\$\$ 8\$\$\$ 8\$\$\$ 8\$\$\$ *

A &1CB @7BJ

8&\$\$fB&\$\$%L1' &*\$

8&\$\$fB&\$\$L1' *)\$

8&\$(fB&\$\$L1' %))

8&*\$fB&\$\$L1' ! (" & ,

8&\$, fB&\$\$L1')% ("&+*

8&\$\$fB&\$\$%L1' !% (") +

WAND (S1) (S2) (D)										M200 M700 M80 M280					
OBSERVED BY: []										AND					
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

%
&

X0	46739	37678	37378
[WAND]	D0	D1	D10

@8 L\$
K 5B8
8\$8%8%

L \$1CB 8 \$1& %%%%

/

E

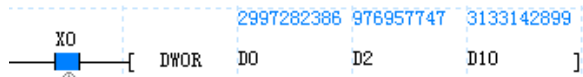
\$\$\$%000\$

5
% +- *

[DWOR (S1) (S2) (D)]										M20D M10D M8D M28D					
										10					
G%	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8K CF8			? bM	? bA	? bG	? b@A		8		7		J		F

%

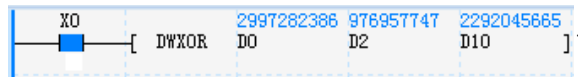
&


 2997282386 976957747 3133142899 @8 L\$
 [DWOR DO D2 D10] 8K CF 8\$ 8& 8%
 L\$1CB 8\$z8% 1& %\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$& -+& & , *
 8&z8' 1& \$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% -+*-)++(
 8%\$z8% 8%\$z8% 1& %\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$% \$\$\$% \$\$\$% ' % ' % (& --

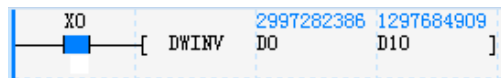
[DWXOR (S1) (S2) (D)]										M20D M10D M8D M28D					
										10					
G%	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8K CF8			? bM	? bA	? bG	? b@A		8		7		J		F

%

&


 2997282386 976957747 2292045665 @8 L\$
 [DWXOR DO D2 D10] 8K LCF 8\$ 8& 8%
 L\$1CB 8\$z8% 1& %\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$& -+& & , *
 8&z8' 1& \$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% -+*-)++(
 8%\$z8% 8%\$z8% 1& %\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$% \$\$\$% \$\$\$% &&-&\$()*
 &&-&\$()*

[DWINV (S) (D)]															
G	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8K CF8			? bM	? bA	? bG	? b@A		8		7		J		F


 2997282386 1297684909 @8 L\$
 [DWINV DO D10] 8K -BJ 8\$ 8%
 L\$1CB 8\$z8% 1& %\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$& -+& & , *
 8%\$z8% 8%\$z8%
 1& \$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$%\$\$\$% \$\$\$% \$\$\$% \$\$\$% %& -+ , (- \$-

[ROR (S1) (D) (S2)]																
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F	
G&	BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	

%

&

GA % %

\$

? b

? b

(

[ROL (S1) (D) (S2)]																
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F	
G&	BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	

%

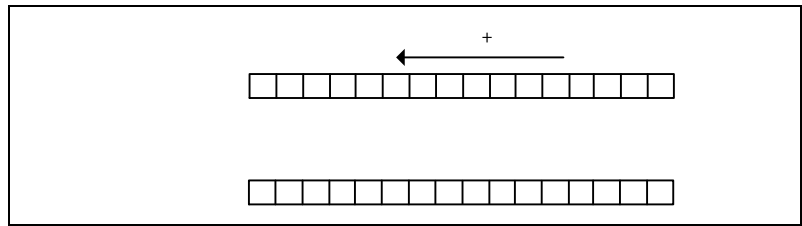
&

|—| |—| [ RCL (S1) (D) (S2)]			
G%	K CF8	? bL	? bM ? bA ? bG ? b@A ? bGA 8 G8 7 H J N F

|---|---[ SHL (S1) (D) (S2)]															
G%	K CF8	?	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8	?	? bM	? bA	? bG	? b@A			8		7	H	J	N	F
G&	=BH	?	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%
.
&

MO	|---|---[ SHL	DO	31452	D10	28160	7	]	@8	A
								G<@	8\$



A \$1CB 8\$1& \$9000\$900\$9000\$ '(%)& + 8%\$
8%\$1& \$90\$9000\$9000\$9000\$ & %\$

? b ? b (

\$

|---|---[ DSHR (S1) (D) (S2)]															
G%	8K CF8	?	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8K CF8	?	? bM	? bA	? bG	? b@A			8		7		J		F
G&	=BH	?	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%
.
&

\$? b ? b

MO	|---|---[ DSHR	DO	1939381420	D10	1893927	10	]	@8	A
								G<F	8\$8%

% A \$1CB 8\$8% 1& \$900\$900\$900\$900\$900\$900\$900\$900\$
% '-', %&\$ % 8%8% 8%8%
1& \$\$\$\$\$\$\$\$\$\$900\$900\$900\$900\$900\$ % -' -&+
& G<F

% * '

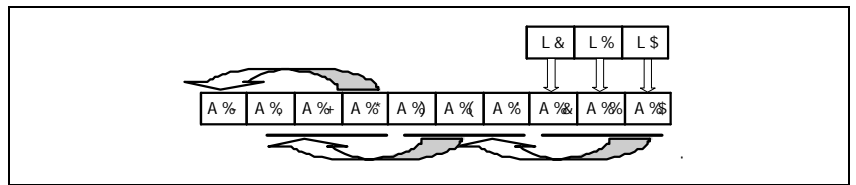
|—| |—| [ DSHL (S1) (D) (S2)]		
-------------------------------	--	--

| | | [ SFTL (S1) (D) (S2) (S3)														
G%	6CC@	L	M	A	G	@A	GA			7	H			
8	6CC@		M	A	G	@A				7	H			
G&	=BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
G	=BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

%

MO | | | [SFTL ON XO ON M10 10 3] @8...A\$
 G:H@L\$A%\$%\$

&



%

% A \$1CB A %\$ %\$

&

A %+ A % L \$

& L \$1% L %1\$ L &1% A %1\$ A %&1% A %&1% A % 1\$ A % 1\$

A % 1% A %*1\$ A %-1\$ A % 1\$ A % 1%

' L \$ L & A %\$1% A %&1\$ A %&1% A % 1\$ A % 1% A % 1%

A %*1\$ A %-1\$ A % 1% A % 1\$

FROM (S1) (S2) (D) (S3)															
G%	=BH'														
G&	=BH'														
8	=BH'							8				J	F		
G	=BH'														

6: A

\$ +

6: A

: FCA

\$ '&+*+

6: A

6: A

MO	[	FROM	0	3	997	D100	2	]	@8'' A \$
									: FCA '\$' 8%\$\$&

A \$ CB \$

6: A

&

8%\$\$ 8%\$%

6: A

% '&+*+

6: A

6: A

|-----|-----| [ DFROM (S1) (S2) (D) (S3)]															
G%	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
G&	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
8'	8=BH'		.	.	.	.	.	.	8'	.	.	.	J'	.	F'
G'	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.

6: A

\$ +

6: A

6: A

8: FCA

\$ '&+*+

6: A

6: A

MO	[DFROM	0	3	16580857	D200	1]
----	---	-------	---	---	----------	------	---	---

@8' A \$'

8: FCA '\$' ' ' 8&\$ \$' %

A \$ CB \$

6: A

%

6: A

8&\$ \$ 8&\$ %

% '&+*+

6: A

|-----|-----[ TO (S1) (S2) (S3) (S4)]															
G%	=BH'														
G&	=BH'														
G'	=BH'							8'				J'		F'	
G(	=BH'														

\$ + 6: A

6: A HC

\$ '&+*+
6: A
6: A

SMD	[TO	0	8	1000	2]
-----	---	----	---	---	------	---	---

@8 GA \$
HC \$', %\$\$\$ &
%\$\$\$

D@7 \$ 6: A , 6: A -

6: A

% '&+*+
6: A
6: A

|-----|-----| [ DTD (S1) (S2) (S3) (S4)]																
G%	=BH'															
G&	=BH'															
G'	8-BH'								8				J		F	
G(	=BH'															

\$ + 6: A

6: A 8HC

\$ '&+*+

SMD	[DTD	0	8	16711935	1]
-----	---	-----	---	---	----------	---	---

@8 ' ' GA \$
8HC ' \$ ' , ' % + % ') ' %

6: A

D@7

\$

6: A , , -

6: A

%

% + % ')

6: A

% '&+*+

6: A

6: A

|-----|-----| [ VRRD (S) (D)]																
G'	K CF8'															
8'	K CF8'								8				J			

\$ &))

MO	[VRRD	0	T8	D10]
----	---	------	---	----	-----	---

\$ &))

@8 ' ' A \$

J FF8 ' \$ ' 8%

A \$ CB

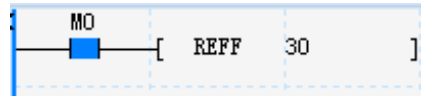
\$

8%\$

|---| |---| [ REFF (S)]															
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

● A 7&\$\$ \$ *(ag *(

● A 7%\$\$ \$, % ' & *(
 \$ % ,
 ' & % *(' &
 *(



@8 A \$
 F9: '\$

L\$ CB

' \$ag

L\$ L%+

|---| |---| [ REF (D) (S)]														
8	6CC@		L	M										
G	-BH													

L#M

%

Lb Mb

L\$ L% L&\$

&

M\$ M\$ M&\$

\$

:CFIB9LH

7>

F9:

%

&)*

(

F9:

D@7

)



@8 A \$
 F9: M\$

A \$ CB M\$ M+

|---| |---| [ EROMWR (S1) (S2)]																	
B%	K	C	F	8	\$			F = F =	3	j	F 8 3	F 8	8				
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F		

| | [ FR]														
G	K CF8								8		7	H		F
8	6CC@			M										

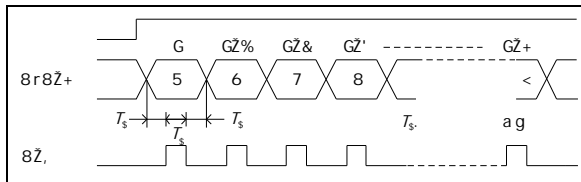
M

% G GZ+ , %
& GA +%

8 8Z+

M

GA +%

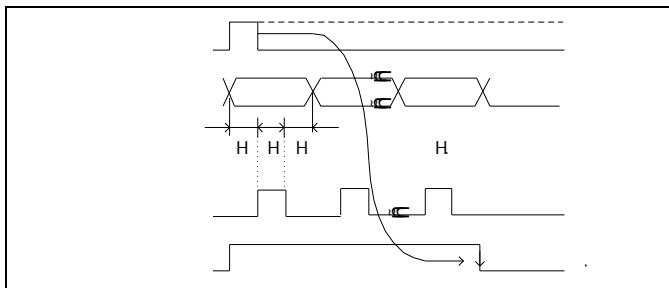


GA +\$ C: :

CB % %

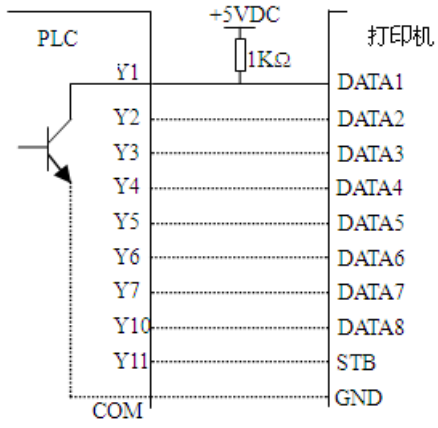
<\$ \$ BI @

GA +\$ CB



%

&



PLC +5VDC 打印机
 Y1 1KΩ DATA1
 Y2 DATA2
 Y3 DATA3
 Y4 DATA4
 Y5 DATA5
 Y6 DATA6
 Y7 DATA7
 Y10 DATA8
 Y11 STB
 COM GND

% Ω \$) J 87 % M0%

:: M\$M+

8\$8+

5G7=

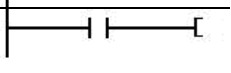
```

/*打印前数据取反*/
SM1 [ MOV 0 Z0 ]
SM1 [ FOR 8 ]
SM0 [ WINV DOZO DOZO ]
[ INC Z0 ]
[ NEXT ]
/*由MO控制打印*/
MO [ PR DO Y1 ]
  
```

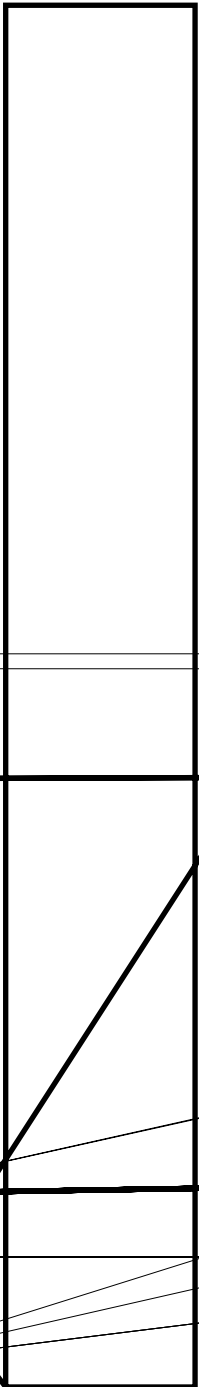
%
&

GA +% "

%*

	TKY (S) (D1) (D2)		
---	-------------------	--	--

H? M



|---| |---| [ TRD (D)]																
8	KCF8									8				J		F

HF 8

+

8

MO	2000
[TRD D10]	

@8... A \$
HF 8... 8%

A \$ CB

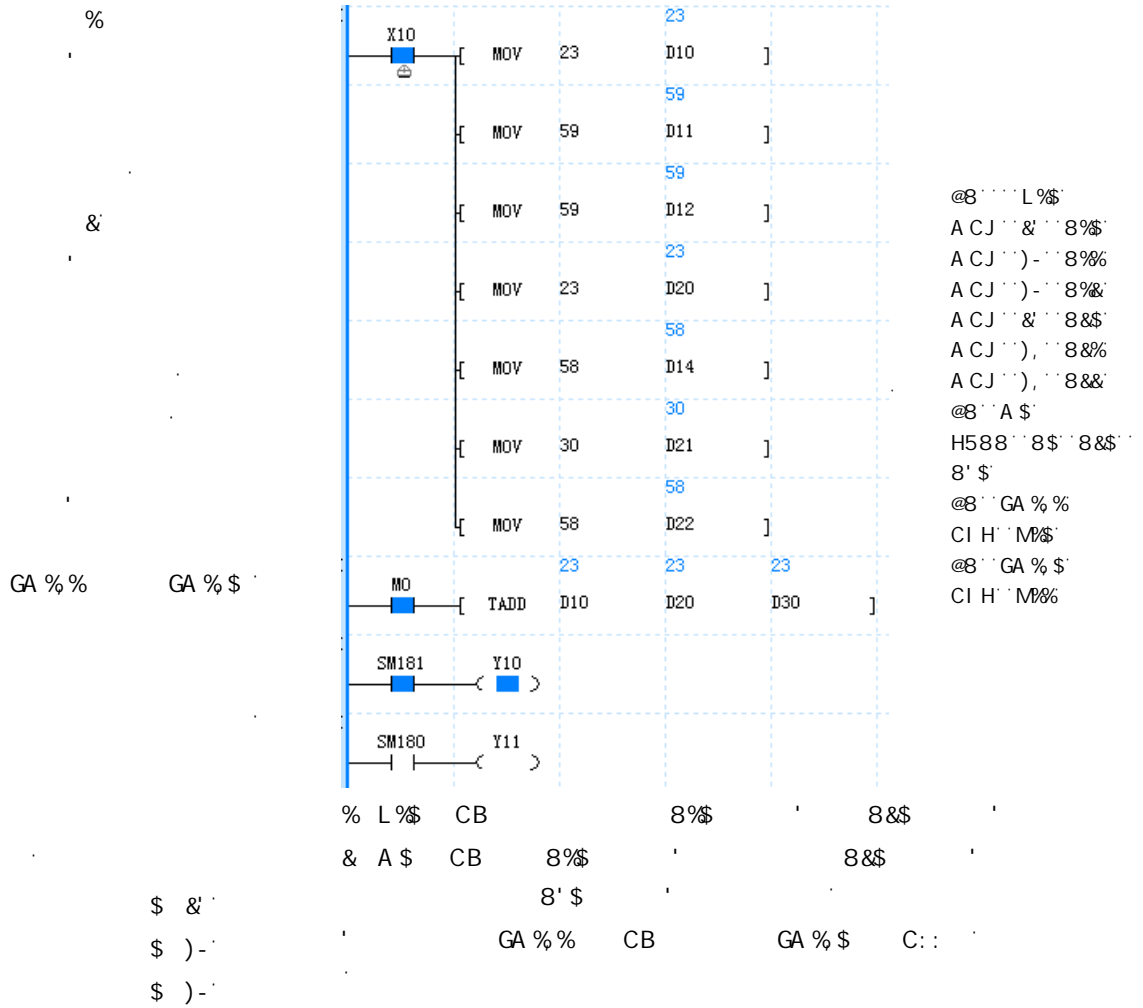
8% +

	G8%\$\$		&\$\$\$ &\$-		8%\$	
	G8%\$%		% %&		8%&	
	G8%\$&		% ' %		8%'	
	G8%\$'		\$ &'		8%&'	
	G8%\$(		\$ )-		8%&('	
	G8%\$)		\$)-		8%&('	
	G8%\$*		\$ *		8%&('	

|—| — [ TWR (S)]		

TADD (S1) (S2) (D)												
G%	K CF8							8	G8		J	F
G&	K CF8							8	G8		J	F
8	K CF8							8			J	F

8%&)-		8&&),		8' &)+
-----	----	--	-----	----	--	------	----



G%			G&			8	
8%\$	&		8&\$	&		8' \$	&
8%%	)-		8&%	),		8' %),

[TSUB (S1) (S2) (D)]										M280										
G%	K CF8									8	G8							J		F
G&	K CF8									8	G8							J		F
8	K CF8									8							J		F	

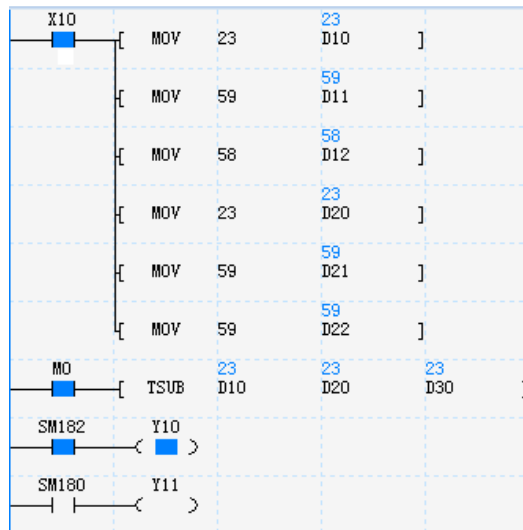
%

G%		G&		8	
8%\$	&	8&\$	&	8' \$	&
8%%	)-	8&%	)-	8' %)-
8%&	)	8&&	)-	8' &)-

&

GA % &

GA % \$



@8' L%\$
 ACJ' &' 8%\$
 ACJ')- 8%%
 ACJ') 8%&
 ACJ' &' 8&\$
 ACJ')- 8&%
 ACJ')- 8&&
 @8' A \$
 HGI 6' 8%\$ 8&\$ 8' \$
 @8' GA % &
 CI H' M%\$
 @8' GA % \$
 CI H' M%\$

% L%\$ CB 8%\$ 8&\$
 & A \$ CB 8%\$ 8&\$
 8' \$

\$ &' GA % & CB GA % \$ C : :
 \$)-
 \$)-

| | [ HOUR (S) (D1) (D2)]								M280							
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
8&	6CC@			M	A	G	@A								

D@7

\$ & CB % &+*+ \$

FI B' GHCD

%

CB

M0	[	MOV	1000	1000	D100]
M1	[	HOUR	D100	1000	0	OFF
M10	YO)				

@8'''' A \$
 A C J '' %\$\$\$ '8%\$\$
 @8'' A %
 <CI F ''8%\$\$\$ '8&\$\$\$ 'A %\$
 @8'''' A %\$
 CI H'' M\$

CB

% A \$ CB <CI F

& A % CB <CI F

' A % CB %\$\$\$ A % CB

%

D@7

.....

										M280					
[	]	[	]	DCMP=	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<	(S1)	(S2)	(D)]						
[	]	[	]	DCMP>	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<>	(S1)	(S2)	(D)]						
[	]	[	]	DCMP>=	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<=	(S1)	(S2)	(D)]						
G%	-BH'								8	G8			J		F
G&	-BH'								8	G8			J		F
8	6CC@			M	A	G	@A				7	H			

%

&

8 CB

C: :

6-B

&&&(-

'% &&&' & &-

SMO	[	MOV	2004	2004	D0]			
	[	MOV	10	10	D1]			
	[	MOV	25	25	D2]			
	[	MOV	2004	2004	D10]			
	[	MOV	10	10	D11]			
	[	MOV	24	24	D12]			
X0	[	DCMP=	2004	2004	D0	D10	OFF	M0]
	[	DCMP<	2004	2004	D0	D10	OFF	M1]
	[	DCMP>	2004	2004	D0	D10	ON	M2]
	[	DCMP<>	2004	2004	D0	D10	ON	M3]
	[	DCMP>=	2004	2004	D0	D10	ON	M4]
	[	DCMP<=	2004	2004	D0	D10	OFF	M5]

@8 ' ' GA \$'

A CJ '&&&' '8\$'

A CJ '%\$' '8%

A CJ '&' '8&'

A CJ '&&&' '8%\$'

A CJ '%\$' '8%&'

A CJ '&' '8%&'

@8 ' ' L\$'

87A D1 '8\$8%\$A \$'

87A D0'8\$8%\$A %

87A D2'8\$8%\$A &'

87A D02'8\$8%\$A ' '

87A D21'8\$8%\$A (

										M280																																																																	
<table border="0"> <tr> <td> </td><td> </td><td>[</td><td>TCMP=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP></td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<></td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP>=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> </table>												[TCMP=	(S1)	(S2)	(D)]					[TCMP<	(S1)	(S2)	(D)]					[TCMP>	(S1)	(S2)	(D)]					[TCMP<>	(S1)	(S2)	(D)]					[TCMP>=	(S1)	(S2)	(D)]					[TCMP<=	(S1)	(S2)	(D)]								
		[TCMP=	(S1)	(S2)	(D)]																																																																				
		[TCMP<	(S1)	(S2)	(D)]																																																																				
		[TCMP>	(S1)	(S2)	(D)]																																																																				
		[TCMP<>	(S1)	(S2)	(D)]																																																																				
		[TCMP>=	(S1)	(S2)	(D)]																																																																				
		[TCMP<=	(S1)	(S2)	(D)]																																																																				
G%	=BH	8	G8	J	F																																																						
G&	=BH	8	G8	J	F																																																						

8

| HTOS (S) (D) |												
G	K	CF8	?bL	?bM	?bA	?bG	H	7	8	G8		

[HCNT (D) (S)]														
8	8-BH									7				
G	8-BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J		F

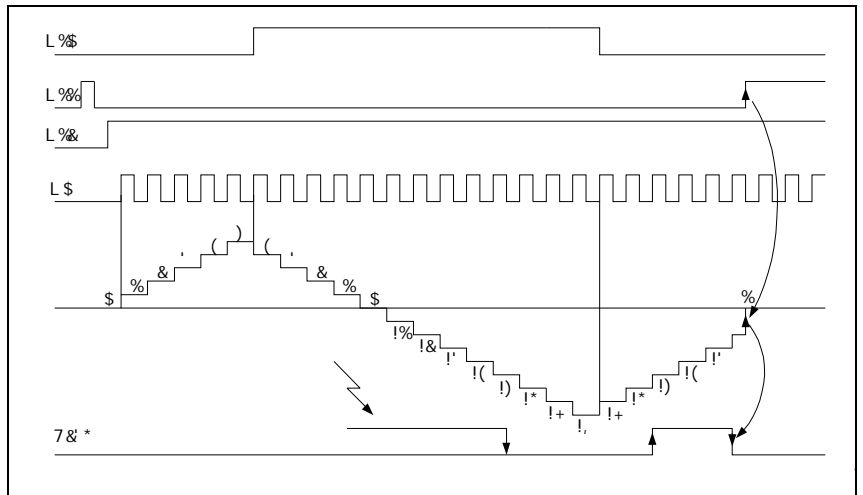
7&* 7&-

'&

&%+(,'*(, &%+(,'*(+

X10	SM236		
X11	[RST C236]	OFF	
X12	[HCNT C236]	0	-5

@8'''' L%
 CI H'' GA &''
 @8'''' L%
 FGH'''' 7&''
 @8'''' L%&
 <7BH'' 7&''''!



<7BH
 <7BH GD8

€

€

% L%& C:: CB 7&* L\$ L%& C:: L\$ 7&*
 7&* L\$ L%& C:: L\$ 7&*
 L\$
 & 7&* 7&* *) 7&*
 7&*) * 7&*
 L%& CB FGH 7&* 7&*

[DHSCS (S1) (S2) (D)]																
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F	
G&	8-BH										7					
8	6CC@			M	A	G										

' & 8-BH

8%+(, '* (, 8%+(, '* (+

7& * 7&)-

M A

G

% 8<G7G

<7BH

<7BH

8<G7G

& 8<G7G

|-----|-----|-----| DHSCI (S1) (S2) (S3)]														
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
G&	8-BH										7			
G	K CF8													

(D@7 8<G7G 8<G7= 8<G7F 8<GN
 8<GD 8<GH €

' & 8-BH
 &%(+,'*(, &%(+,'*(+)

7&* 7&)-
 &\$

&)
 <7BH

C:: CB
 8<G7=

@8 A %
 CI H ... GA & *
 @8 A \$
 8<G7= \$\$\$ 7&* &\$
 @8 7&*
 CI H ... M%%

@8 A %
 CI H ... M%\$
 @821 ... 8\$ %\$
 CI H ... M%&
 A C J ... \$ 8\$

% 8<G7=
 <7BH
 <7BH
 8<G7=
 & 8<G7=
 8A C J A C J
 8<G7=
 ' 8<G7= 8<G7G 8<G7F
 8<GN 8<GD 8<GH

% A % CB 7&* L\$ C:: CB L\$
 € 7&* --- %\$\$\$ 7&* %\$\$\$
 %\$\$\$ 7&* 7&* M%% M%%
 & A & CB 8<G7=
 7&* &\$\$\$ &\$
 ' A \$ CB GA & * 7&* A \$ C:: GA & *
 7&*
 (7&* 7&* &\$\$\$ &\$
 A %\$ CB M%\$ M%\$
 8\$ %\$ M%& 8\$

*

|-----|-----[ DHSPI (S1) (S2) (S3)]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH									G8					
G	K CF8														

' & 8-BH

&%(+,'*(, &%(+,'*(+

ž

G8&\$G8' &\$G8' (\$G8') \$G8' *\$G8' +\$

)' ž (ž) ž *ž +ž, "

8<GD1R /

|—| |—| [ DHSCR (S1) (S2) (D)]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH										7				
8	6CC@			M	A	G					7				

& 8<G7F

8A CJ A CJ

8<G7F

' 8<G7F 8<G7= 8<G7G 8<GN 8<GD 8<GH

' & 8-BH

8%+(, '* (, 8%+(, '* (+

*

*

7&* 7&)-

(D@7

8<G7G

M A

G 7

7

<7BH

C: : CB

8<G7F

M

M

8<G7F

% 8<G7F

<7BH

<7BH

8<G7F



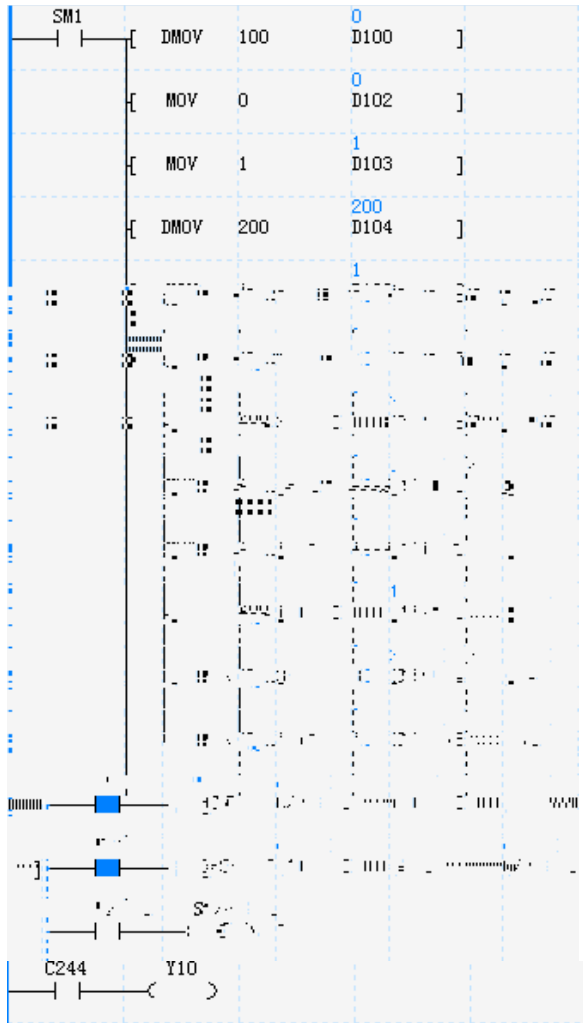
DHSZ (S1) (S2) (S3) (D)															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G	8-BH										7				
8	6CC@			M	A	G									

% ' & 8-BH
 &%(, '* (,
 &%(, '* (+
 & ' & 8-BH
 &%(, '* (,
 &%(, '* (+
 7& * 7&)-

|---| |---| [ DHST (S1) (S2) (S3)]																
G%	8-BH									8						F
G&	-BH															
G	8-BH											7				

8
 8
 M
 8
 % %&
 7& * 7&)-
 % <7BH
 C: : CB
 &
 (D@7
 8<G7= 8<G7F 8<GN 8<GD 8<GH
 (8<GH
 % 8<GH <7BH
 & 8<GH <7BH 8<GH
 8A C J A C J
 8<GH
 ' 8<GH 8<G7= 8<G7G 8<G7F 8<GD 8<GN
 * *
 8<GD 8<GH
 8<GH 8<GD
 8<GH 8<GD
 8<GH 8<GD
 #C

8%\$\$1\$	8%\$%1%\$\$	8%\$&1\$	8%\$' 1%	%
8%\$(1\$	8%\$) 1&\$\$	8%\$* 1%	8%\$+1\$	&
8%\$, 1\$	8%\$- 1' \$\$	8%\$%1&	8%\$%1%	
8%\$&1\$	8%\$' 1' \$\$	8%\$'(1'	8%\$() 1%	(%



```

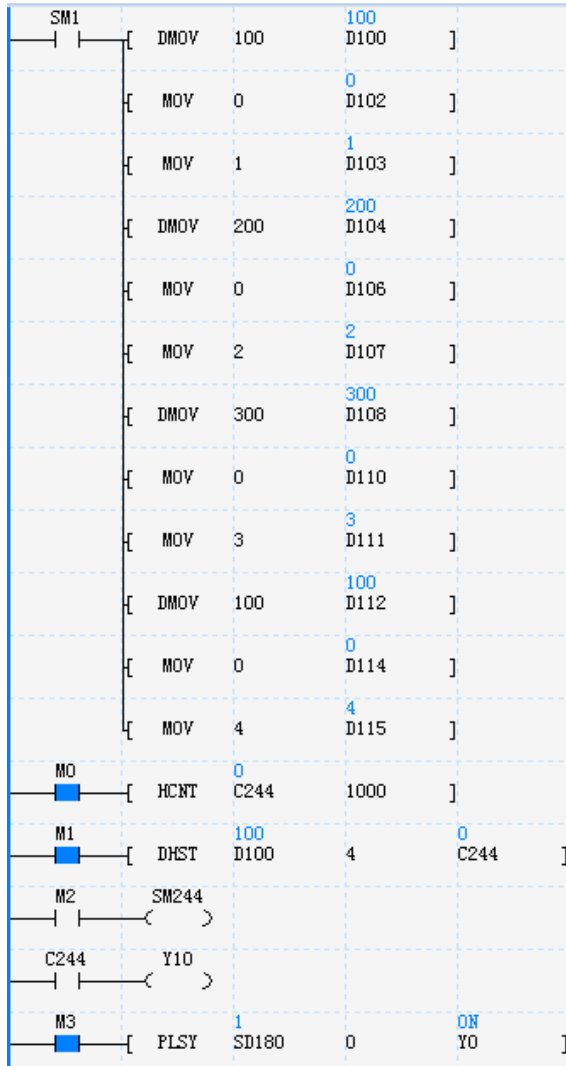
@8'''' GA %
8A CJ'' '$$' 8%$$
A CJ'' '$' ' 8%$$
A CJ'' '% ' 8%$
8A CJ'' '&$$' 8%$(
A CJ'' '% ' 8%$*
A CJ'' '$' ' 8%$+
8A CJ'' '$$' 8%$,
A CJ'' '&' ' 8%$%
A CJ'' '% ' 8%$%
8A CJ'' '$$' 8%$%&
A CJ'' '' ' 8%$(
A CJ'' '% ' 8%$()
@8'''' A $
<7BH'' 7&(' '$$$
@8'''' A %
8<GH'' 8%$$' (' 7&((
@8'''' A &
CI H'''' GA &((
@8'''' 7&((
CI H'''' M/$
    
```

```

%
8%$$ 8%$()
& A $ L* CB 7&(( L$ C:: CB € 7&(( --- %$$$
7&(( %$$$ %$$$ 7&(( 7&(( M/$ M/$
' A % CB 8<GH % %
& %
GA %) G8%( G8%& G8%'
( A & CB GA &(( CB 7&(( A & C:: GA &(( C:: 7&((
) L* C:: 7&((
* A $ L* CB L& CB 7&(( $ 7&((
    
```

|—| |—| [ DHSP (S1) (S2) (S3)]																
G%	8-BH									8						F
G&	-BH															

8%\$1\$	8%\$%1%\$	8%\$&1\$	8%\$' 1%	%
8%\$(1\$	8%\$) 1&\$	8%\$*1\$	8%\$+1&	&
8%\$, 1\$	8%\$- 1' \$\$	8%\$%1\$	8%\$%d'	'
8%\$&1\$	8%\$' 1' \$\$	8%\$(1\$	8%\$) 1((
				%



```

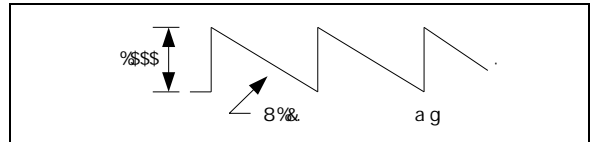
@8 ..... GA %
8A CJ ... %$ 8%$
A CJ ... $ 8%$&
A CJ ... % 8%$
8A CJ ... &$ 8%$(
A CJ ... $ 8%$*
A CJ ... & 8%$+
8A CJ ... $$ 8%$,
A CJ ... $ 8%$%
A CJ ... 8%$%
8A CJ ... %$ 8%$&
A CJ ... $ 8%$(
A CJ ... ( 8%$)
@8 ..... A $
<7BH ... 7&( ... %$
@8 ..... A %
8<GD ... 8%$ ( ... 7&(
@8 ..... A &
CI H ... GA &(
@8 ..... 7&(
CI H ... M$
@8 ..... A '
D@GM ... G8% $ ' M$
    
```

```

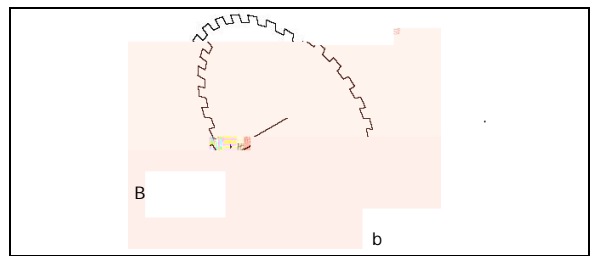
%                               8%$ 8%$)
& A $ L*      CB  7&( L$ C:: CB      €      7&( --- %$$$
  7&(          %$$$ %$$$ 7&(      7&(      M$ M$
'   A % CB    8<GD
    &
      GA %)      G8% (      G8% & G8%'
        G8% $ G8% %
          G8% $ G8% %      $
(   A & CB    GA &( CB  7&(      A & C:: GA &( C:: 7&(
)   L* C::    7&(
*   A $ L*    CB      L& CB  7&(      $ 7&(
    
```

|—| |—| [ SPD (S1) (S2) (D)]			
G%	6CC@	L	
G&	K CF8	? bL	? bM ? bA ? bG ? b@A ? bGA
8	K CF8		8 8 7 H J N F

L\$ L) ag G&2\$
*)')'



L\$ L) ag

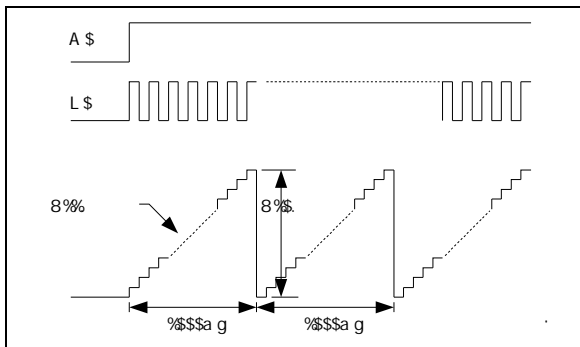


% GD8 <7BH
610 IO
& GD8 L\$ L)
' GD8 %<n %<n
(GD8

% A \$ CB L\$ \$\$\$a g
8% 8%
\$\$\$a g 8% \$\$\$a g
& 8%
' L\$ C:: CB \$\$\$a g
8%

SMD	[PLSY	10000	0	ON YO
MO	[SPD	ON XO	1000	10000 D10

@8 GA \$
D@GM \$\$\$ \$ M\$
@8 A \$
GD8 L\$ \$\$\$ 8%



* D@GM

DK A D@GF

| | | [ PLSY (S1) (S2) (D)] +									DK A D@GM D@GF						
G%	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8<G8	G8<7B	7<D@GM	8<G7G	8<G7F	8<GN	8<GD
G&	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8<G8	G8<7B	7<D@GM	J		F	
8	6CC@			M											

<n
 A 7%\$\$ A 7&\$\$ % %\$\$\$\$ <n A 7&,\$
 % &\$\$\$\$ <n \$ %\$\$\$\$

M1	[PLSY 1000 10000 OFF Y1]
	[PLSY 1000 10000 OFF Y0]

D@G

\$ &%(,.'*(+

\$

A 7%\$\$ A 7&\$\$ M\$

M% A 7&,\$ M\$ M% M& M M(
 M) M* M+

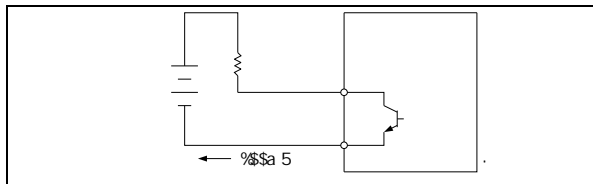
D@7

% D@7

& D@7

D@7

D@GM DK A D@GF



(C:: DK A D@GM
 D@GF

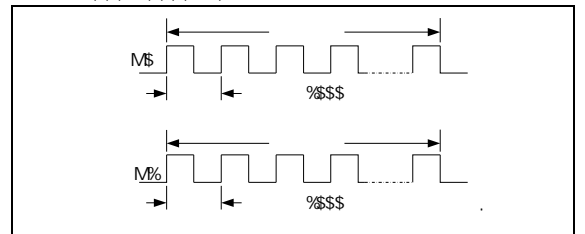
\$\$a 5

)

@B`A %

D@GM%\$\$\$%\$\$\$M%

D@GF %\$\$\$%\$\$\$M\$



% A % CB M\$ M% %\$\$\$

\$\$\$<n %\$\$\$

A \$ C:: CB

A \$ C:: C::

&)\$ CB)\$ C::

M

M\$

DCFH\$ M% DCFH%

' GA , \$ M\$ GA , % M%

%

(GA , & GA , ' M\$ M%

A \$ C::

) G8)\$ M\$ D@GM D@GF

G8)% M\$ D@GM D@GF

G8)& M% D@GM D@GF

G8)' M% D@GM D@GF

G8)(M\$ M% D@GM

D@GF

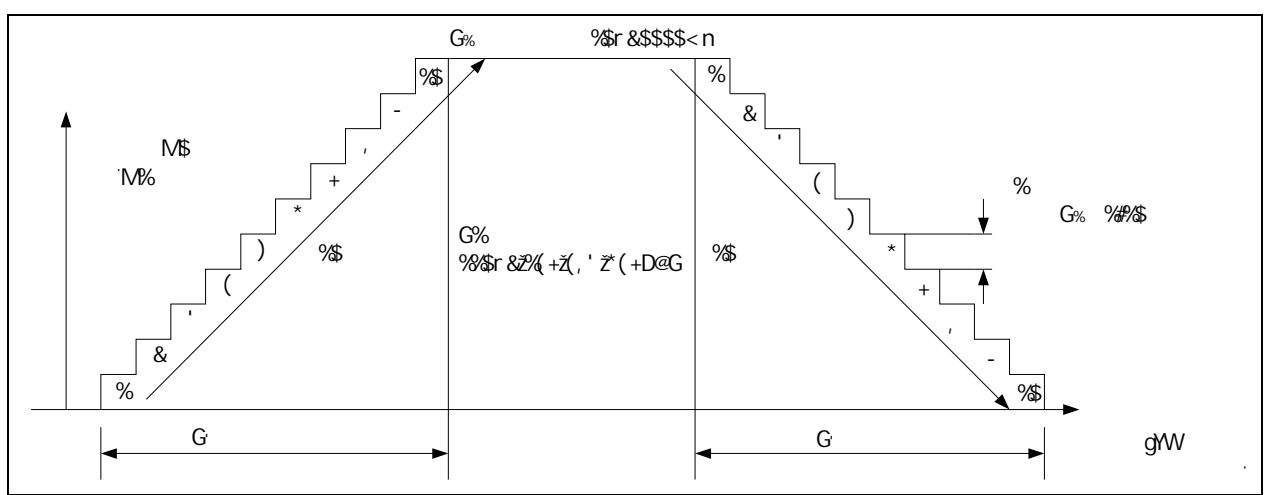
G8)) M\$ M% D@GM D@GF

* G8) \$ G8)) 8A CJ ... G8)
 A CJ ... G8)
 + D@GM
 8 < GD

|---|---| PLSR (S1) (S2) (S3) (D)															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	6CC@			M											



<n %\$ &\$\$\$\$ <n A 7%\$\$)\$ag
 &\$\$\$\$ &\$\$\$\$
 %\$ %\$ #/\$ %\$
 D@G %\$ A 7%\$\$ A 7&\$\$z
 M\$ M% A 7& \$z M\$ M% M& M
 M(M) M* M#
 a g
 0%\$\$\$\$ 1%\$\$\$\$#
 D@GF
 2G& -\$- 1G& -\$- #
 D@GF



% %\$ &\$\$\$<n

% A \$ CB

M\$ M%

%\$

A \$

C::

CB

A \$ C::

& D@7

C::

M\$ DCFH\$

&

M% DCFH%

A \$

CB C::

CB

' GA , \$

M\$

GA , %

M%

GA , \$

GA , % %

(& D@GF

(GA , & GA , '

M\$

M%

A \$ C::

GA , & GA , '

C::

DK A D@GM

GA , & GA , ' CB

) DK A D@GM D@GF

) G8)\$ G8))

* 8<G7G 8<G7F 8<GN 8<GD
8<GH <7BH D@GF

MO	PLSR	10	110	1000	OFF Y1
	PLSR	10	110	1000	OFF Y0

@8 ' A \$
D@GF ' %\$ ' %\$ ' %\$\$\$ ' M%
D@GF ' %\$ ' %\$ ' %\$\$\$ ' M\$

* G8)\$ G8)) 8A CJ ' ' G8)
A CJ ' ' G8)

| | | [ PLS (S1) (S2) (D1)]															
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8%	6CC@			M											

8
\$ 8))
A 7%\$\$ A 7&\$\$
M\$ M% A 7& \$Z M\$ M% M& M
M(M) M* M+

%

D@G

&

\$
GA, \$ GA, %

(

8

A

D@GSG9H

b

& P
 F_{aU} F_{aJb} F_N B
 T_{down} T_{up}

$$P \frac{fF_N F_N \% \& fF_N F_N \% \& T_{up}}{\&\&\& fF_{aU} F_{aJb} \&}$$

$$P \frac{fF_N F_N \% \& fF_N F_N \% \& T_{down}}{\&\&\& fF_{aU} F_{aJb} \&}$$

F_{aJb}

$$P \frac{fF_{\%} F_{aJb} \& fF_{\%} F_{aJb} \& fV_{up} T_{down} \&}{\&\&\& fF_{aU} F_{aJb} \&}$$

$$P \frac{fF_M F_M \% \& fF_M F_M \% \& fV_{up} T_{down} \&}{\&\&\& fF_{aU} F_{aJb} \&}$$

(D@7

)

%

D@G

DHC

D@G

* D@GMD@GF D@G

[]															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G(	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	6CC@			M											

fa GL

\$ &\$\$\$<n

\$!%\$\$\$

<N

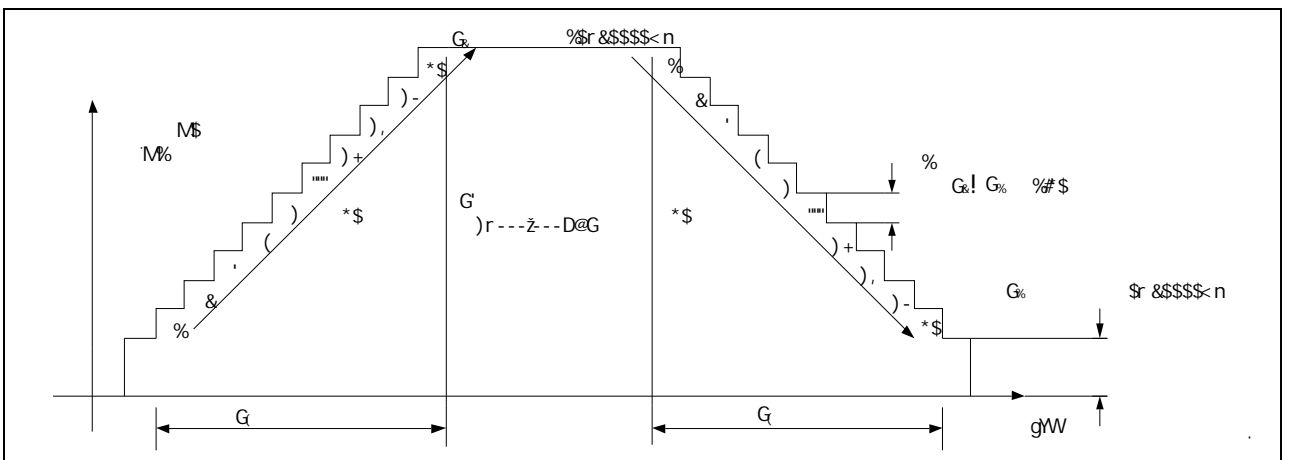
% &\$\$\$<n

A 7%\$ A 7&\$z M\$ M% A 7& \$z

M\$ M% M& M M(M) M* M+

fD@GL

)!-----



% %!&\$\$\$\$<n

MO	[	PLSB	100	10000	10000	1000	OFF	Y1]
	[	PLSB	100	10000	10000	1000	OFF	Y0]

&

@8 ' ' ' A \$

D@GF ' '\$\$ ' '\$\$\$\$ ' '\$\$\$\$ ' '\$\$\$ ' M%

D@GF ' '\$\$ ' '\$\$\$\$ ' '\$\$\$\$ ' '\$\$\$ ' M\$

% A \$ CB M\$ M%

\$\$\$\$ A \$ C::

CB A \$ C::

C::

&

A \$ CB C:: CB

(

' GA , \$ M\$ GA , % M%

GA , \$ GA , % %

)

fl t

(GA , & GA , ' M\$ M%

A \$ C:: GA , & GA , ' C::

GA , & GA , ' CB

*

& D@G6

M\$\$\$ M\$\$%

DK A D@GM

) G8)\$ G8))

+

DK A D@GM D@G6

, 8<G7G 8<G7F 8<GN 8<GD
8<GH <7BH D@G6

-

M\$ M%

* G8)\$ G8)) 8A CJ ' ' G8)

A CJ ' ' G8)

|---| |---| [ PWM (S1) (S2) (D)]															
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'
8'	6CC@			M'											

ag# g
 \$ '&+*+ ag '&+*+

GA , (\$ GA , (%
 g

g0 &
 % '&+*+

GA , (\$ GA , (%
 g

M% A 7&,\$ž A 7&,\$ž M\$
 M(M) M* M+

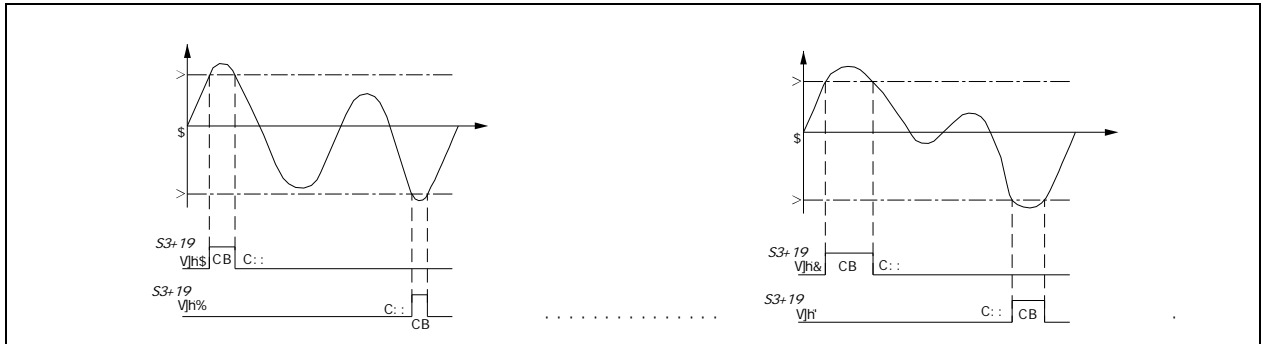
DK A 7%\$\$

% \$ C: : 6,13é ö;0EÄ * 0-\$ j
 CB o /

		PID										
		(S1)	(S2)	(S3)	(D)							
G%	-BH							8			F	
G&	-BH							8			F	
G	-BH							8			F	
8	-BH							8			F	

6+H&1CB 6+H&1CB 6+H)1C:: D-8
D-8

D-8



- D-8

	$\Delta MV = KP \left\{ (EV_n - EV_{n-1}) + \frac{T_s}{T_i} EV_n + D_n \right\}$ $9J_b \quad DJ_{bz} \% \quad GJ$ $8_b \quad \frac{H_b}{H_c} \quad \frac{8}{s} \quad H_b \quad DJ_{bz} \quad DJ_{bz} \quad \& \quad DJ_{bz} \% \quad \frac{8}{H_c} \quad \frac{8}{s} \quad H_b \quad 8_b \%$ $A J_b \quad A J$
	$\Delta MV = KP \left\{ (EV_n - EV_{n-1}) + \frac{T_s}{T_i} EV_n + D_n \right\}$ $9J_b \quad GJ \quad DJ_{bz} \%$ $8_b \quad \frac{H_b}{H_c} \quad \frac{8}{s} \quad H_b \quad \& DJ_{bz} \% \quad DJ_{bz} \quad DJ_{bz} \quad \& \quad \frac{8}{H_c} \quad \frac{8}{s} \quad H_b \quad 8_b \%$ $A J_b \quad A J$

9J _b		8 _b	
9J _b %	%	8 _b %	%
GJ		? D	
DJ _{bz}		H _c	
DJ _{bz} %	%	H ₋	
DJ _{bz} &	&	H _s	
A J		8	
A J			

#D-8

@8 GA % #
 A C J %\$\$\$ 8) \$\$ #
 A C J)\$\$ 8) %\$ # Hg % '&+*+ ag
 #
 A C J + 8) %% #
 A C J +\$ 8) %& # \$ --O Q \$
 A C J %\$\$\$ 8) % " # ?d % '&+*+O Q
 A C J &) 8) % (# H= \$ '&+*+ %\$\$\$ ag \$
 #

```

A CJ    $    8)% "  #    ? 8    $ %$O Q    $
A CJ    *    8)% "  #    H8    $ ' &+*+    %$a g    $
      #
: A CJ  $    8)%+ "  #    D-8
A CJ    &$ $$    8) & "  #    $ ' &+*+
A CJ    &$ $$    8) &* "  #    $ ' &+*+
A CJ    &$ $$    8) &+ "  #    $ ' &+*+
A CJ    &$ $$    8) & "  #    $ ' &+*+
#D-8
@8      A $    #    D-8
: FCA   $ )    8) $ %    %    #
D-8     8) $ $ 8) $ % 8) $ % 8) $ &    #D-8    D-8 G%G&G ' 8
HC      $    8) $ &    %    #D-8
      #    D-8
    
```

SM1	[	MOV	1000	1000	D500]			
	[	MOV	500	500	D510]			
	[	MOV	16#7	7	D511]			
	[	MOV	70	70	D512]			
	[	MOV	100	100	D513]			
	[	MOV	25	25	D514]			
	[	MOV	0	0	D515]			
	[	MOV	63	63	D516]			
	[FMOV	0	26	D517	8]			
	[	MOV	2000	2000	D525]			
	[	MOV	2000	2000	D526]			
	[	MOV	2000	2000	D527]			
	[	MOV	2000	2000	D528]			
MO	[FROM	0	5	631	D501	1]		
	[PID	1000	631	500	D501	D510	24349	D502]
	[TO	0	8	24349	D502	1]		

```

%
$ @8 GA $ ' ' A CJ $ 8| | | |
& D-8 &$
' HG % %a g
% HG D-8
( D-8 D-8
) D-8
* 6+H& 6+H) CB
6+H& 6+H) C::
+ D-8 D-8
% D-8
- D-8
D-8
    
```

L & 1CB

5#8

8#5

D-8

D-8

D-8

D-8

D-8

RAMP (S1) (S2) (D1) (S3) (D2)															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8&	6CC@			M	A	G	@A				7	H			

%

&

G%G& 8%G& 8&1CB

(F5A D <57?@9 HF =5B; @9

%\$

)"F5A D <57?@9 HF =5B; @9

\$

\$

CB

CB

C: :

#

@8 GA %

A CJ \$'8\$

A CJ &\$\$\$8%

#L \$1CB

@8 L \$

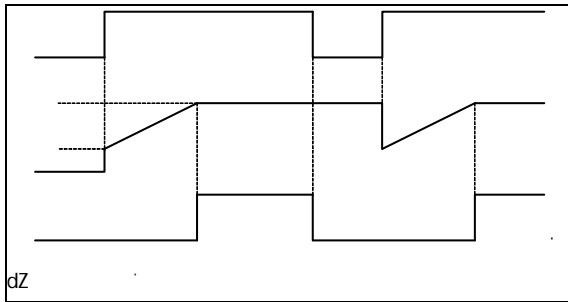
F5A D 8\$8%8%\$\$\$A \$

#L %1CB

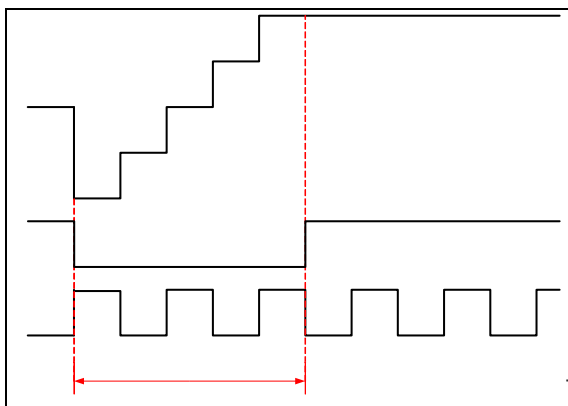
85

@8 L %

HC \$*8%\$%



1)



SM1	[	MOV	0	0	DO]		
	[	MOV	2000	2000	D1]		
X0	[RAMP	0	2000	2000	1000	ON	MO]
X1	[TO	0	6	D10	1]		

% L \$1CB

8%

8%\$18\$1\$

& &\$\$\$#\$\$\$

8%\$18%&\$\$\$

8%

A \$1CB

C: :

8%\$18\$

&

[... 1 1 ... HACKLE ... (S1) ... (S2) ... (D1) ... (S3) ... (D2) ...]															
G%	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J	N'	F'
G&	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J	N'	F'
8%	-BH'								8				J		F'
G	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J	N'	F'
8&	6CC@			M	A	G	@A				7	H'			

%

& 1 1 1CB
 F5AD <57? @9 HF-5B; @9
 %\$\$

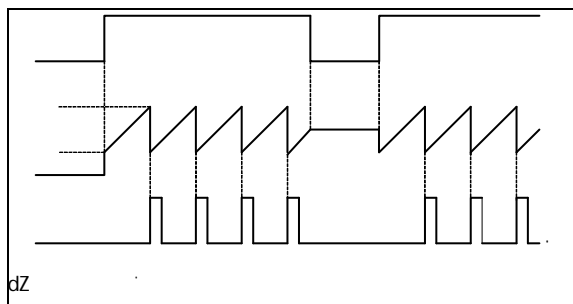
\$

##

@8 GA %
 ACJ \$8\$
 ACJ &\$\$\$8%
 ## \$1CB
 @8 L \$
 <57? @9 8\$8%8%\$%\$\$\$A \$
 ## L %1CB 85

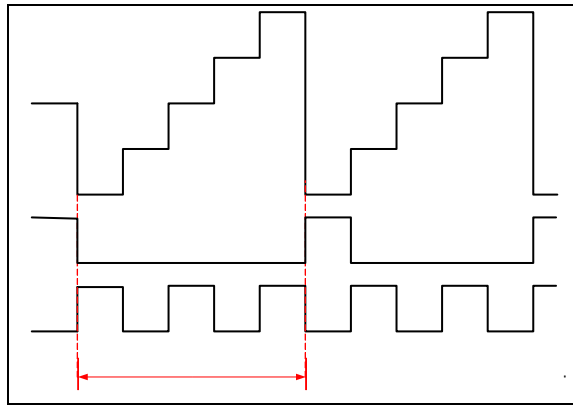
CB CB C:: C::

@8 L %
 HC \$%8%\$%



1)

SM1	[	MOV	0	D0]				
	[	MOV	2000	D1]				
X0	[	HACKLE	D0	D1	D10	1000	OFF	MO]
X1	[	TO	0	1	D10	1]



% L \$1CB 8%
 8%18\$1\$ & &\$\$\$#&\$\$\$ 8%18%&\$\$\$
 A \$1CB L \$ CB
 8%18\$1\$ A \$1C::

C::

&

[TRIANGLE (S1) (S2) (D1) (S3) (D2)]															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8&	6CC@			M	A	G	@A				7	H			

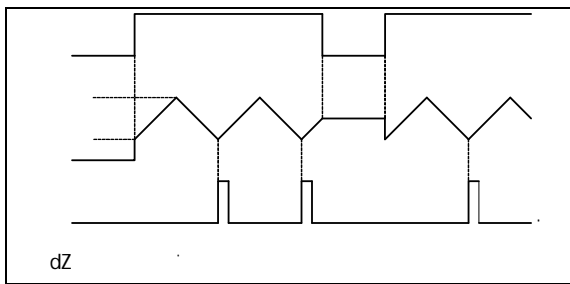
G \$

CB

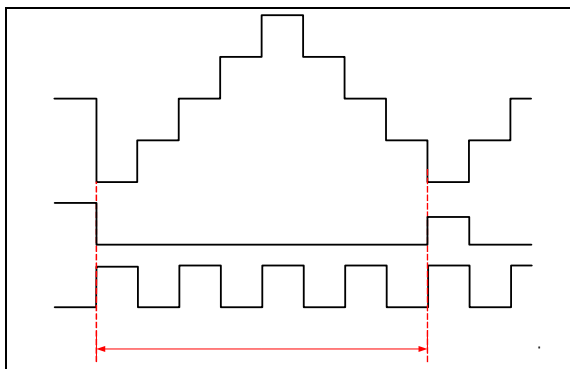
CB

C::

C::



1)



%

&

1 1 1CB

(1 % &
) F5A D <57?@9 HF-5B; @9
%\$

##

@8 GA %

A CJ \$8\$

A CJ &\$\$\$8%

##L \$1CB

@8 L \$

HF-5B; @9 8\$8%8%\$A \$

##L %1CB

85

@8 L %

HC \$%8%\$%

SM1	[	MOV	0	DO]			
	[	MOV	2000	D1]			
X0	[TRIANGLE	DO	D1	D10	1000	OFF	MO]
X1	[TO	0	1	D10	1]		

% L \$1CB

8%

8%\$18\$1\$ & &\$\$\$#\$\$\$ 8%\$18%&\$\$\$

8% &

8%\$18\$1\$

A \$1CB

L \$ CB

A \$1C::

C::

&

| | [ ABSD]														
G%	-BH		? bL	? bM	? bA	? bG			8		7	H		F
G&	-BH										7			
8	6CC@			M	A	G								
G	K CF8													

b (

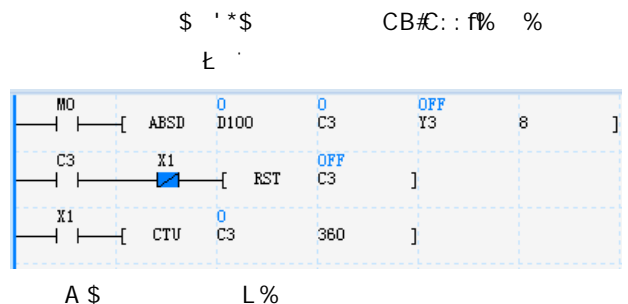
% *

% b fl b & t

b CB#C::

& # b &

G% G% &b %

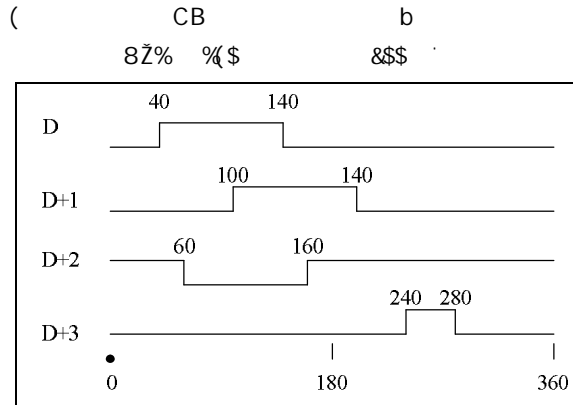


	(\$	Z%	%(\$	
Z&	%%\$	Z'	&\$ \$	Z%
Z(	%( \$	Z)	*\$	Z&
Z*	&(\$	Z+	& \$	Z'
A	A	A	A	A
Z&b		Z&bZ%		Zb!%

%

& - (

G& 7\$ 7%-



MD [DABSD D100 C200 Y3 8]															
8-BH		? bL	? bM	? bA	? bG			8		7	H		F		
8-BH										7					
6CC@			M	A	G										
K CF8															

7&))

% *(

b fl b (t
b 8 CB#C::

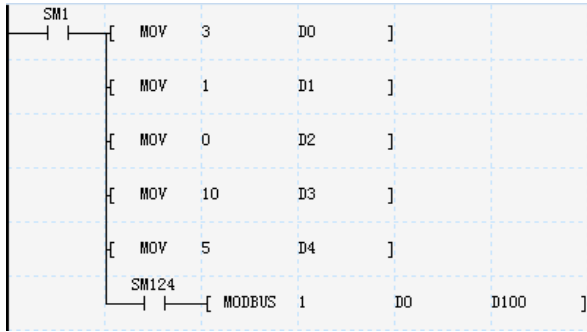
O Ž% Q O Žfb
Žfb &Ž&Q
O Ž%Q O Ž%Ž(bŽ'

%	Q	(\$	O Ž'	Ž&Q	%(\$	
	Ž(Q	%%\$	O Ž+	Ž*Q	&\$	Ž%
	Ž, Q	% \$	O Ž%%	Ž%Q*	\$	Ž&

% Ž%Q&(\$ O Ž%) p%Q& \$ 3 2 f

| | | [ ALT]		

(



@8 GA %

A CJ ' ' ' ' 8\$

A CJ ' ' % ' 8%

A CJ ' ' \$ ' 8&

A CJ ' ' %\$ ' 8'

A CJ ' ') ' ' 8(

5B8 GA %&(

A cXVi g%8\$'8%\$\$

% A cXVi g 8\$

& 8%\$\$

' A cXVi g 7F7

GA % *

G8% -

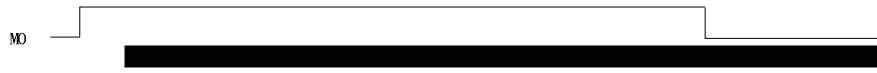
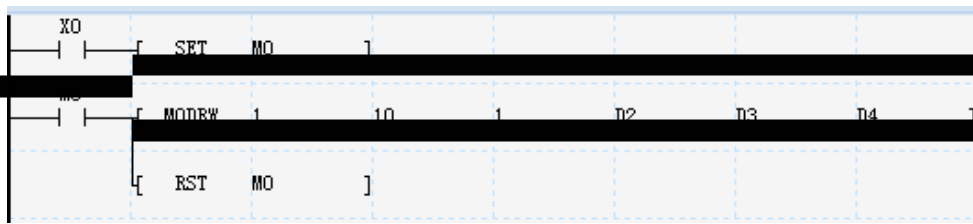
(GA %%(GA %&(

A C86I G A C86I G

A cXVi g

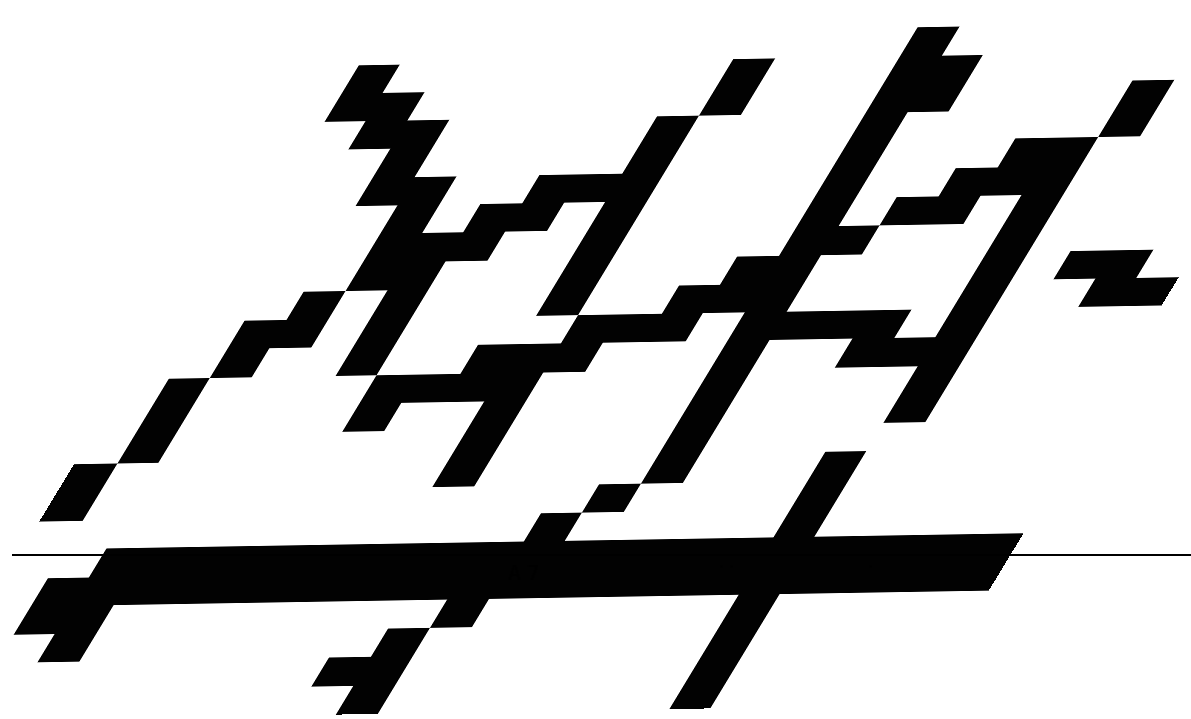
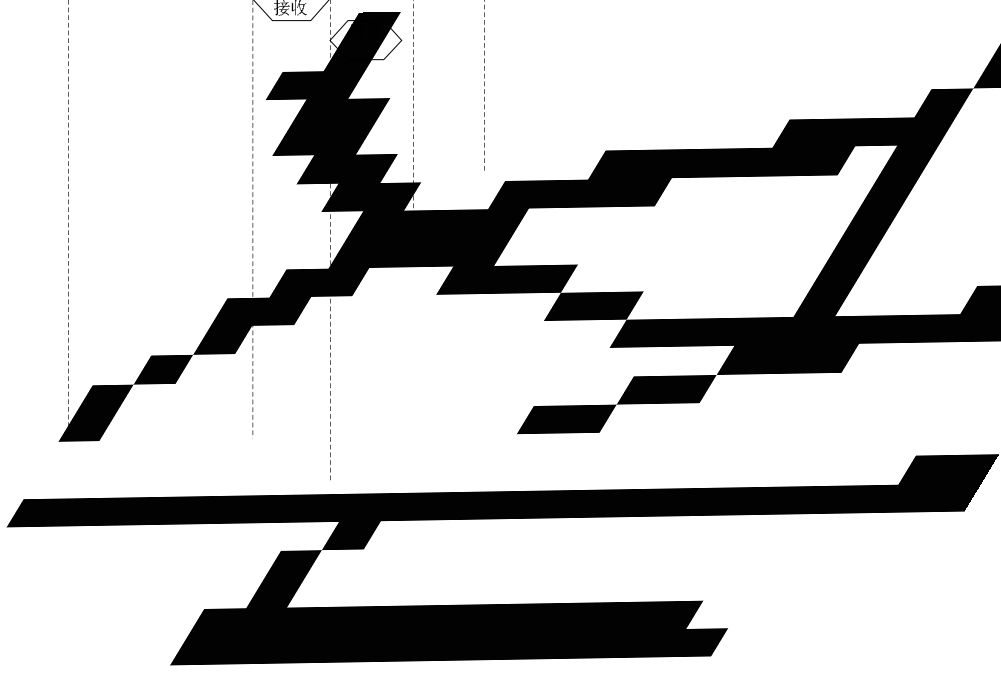
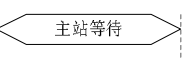
\$I \$%	
\$I \$&	
\$I \$'	
\$I %\$	
\$I %%	
\$I %&	#
\$I %'	

|—| —|



SM30

SM135



T+ &\$ %\$ %\$\$\$ % %%(ms
% &\$ \$

T(T T %ms

T. ')ms

T. % *& ') %%(% %))**ms

%\$g

A 7%\$ D@7

A % A &

A' A C8FK

T& fVNTf))** %& % *\$ms
%

A

A C8FK

A C8FK

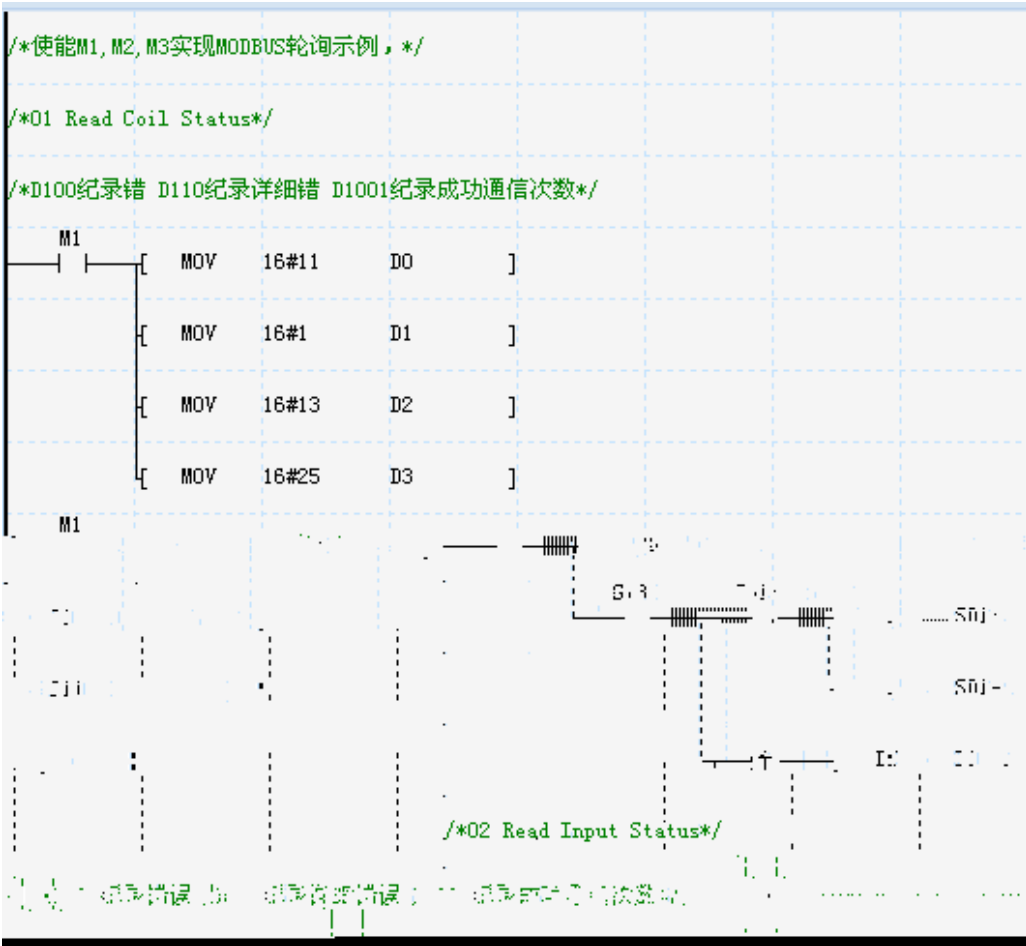
A & A % A' A C8FK

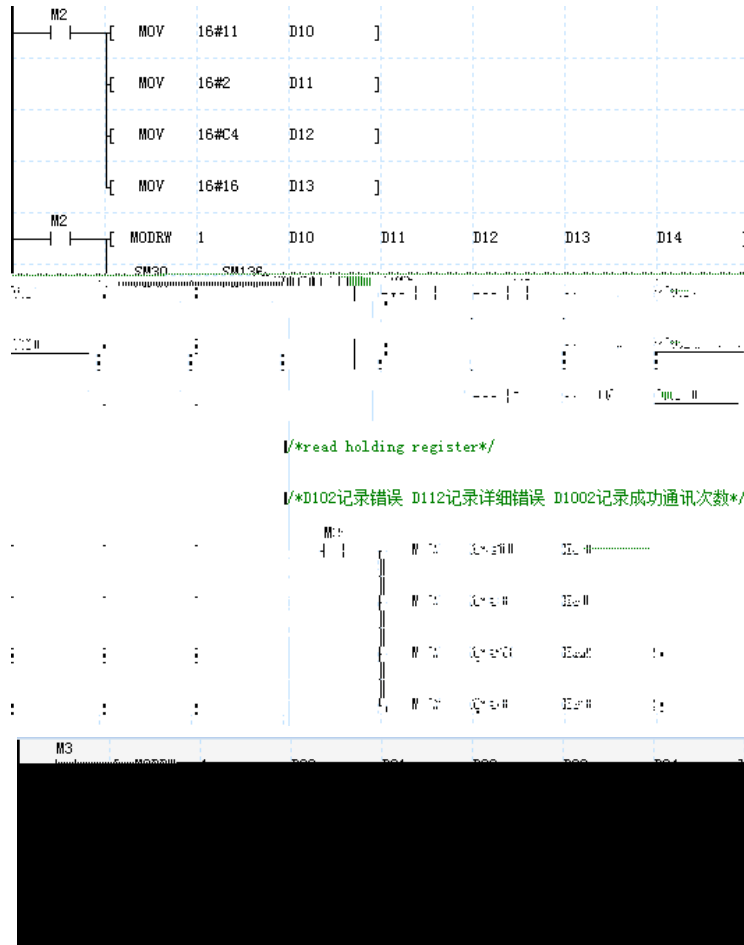
A C8FK

T% *& % % %%(' '*ms

A &

A C8FK





GA '\$ A C8FK A C8FK GA %* G8% -
A C8FK GA '\$ A C8FK G8% (GA %* G8% - G8% (
GA '\$ & A C8FK
GA '\$ GA %) A C8FK
A C8FK GA '\$ A C8FK
A C8FK
GA '\$ A C8FK
GA '\$

& A 7%\$\$ A J *\$\$

H\$

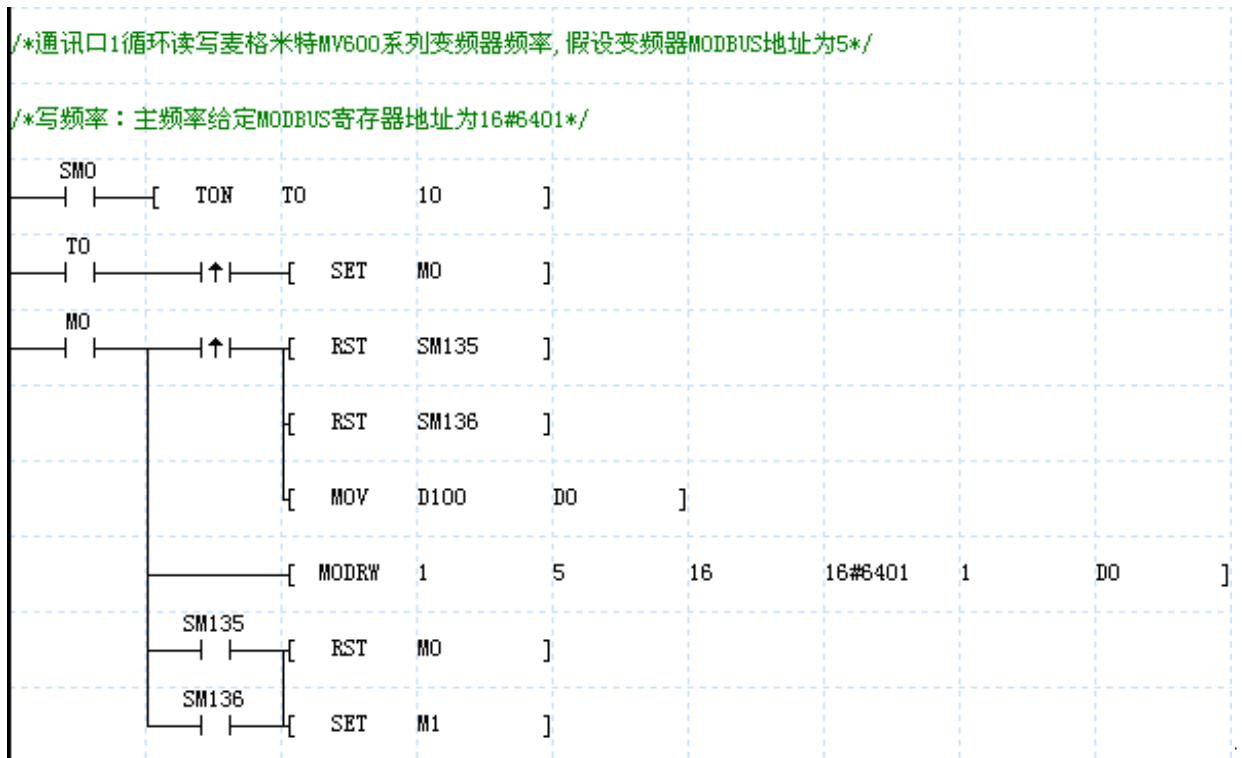
A 7%\$\$

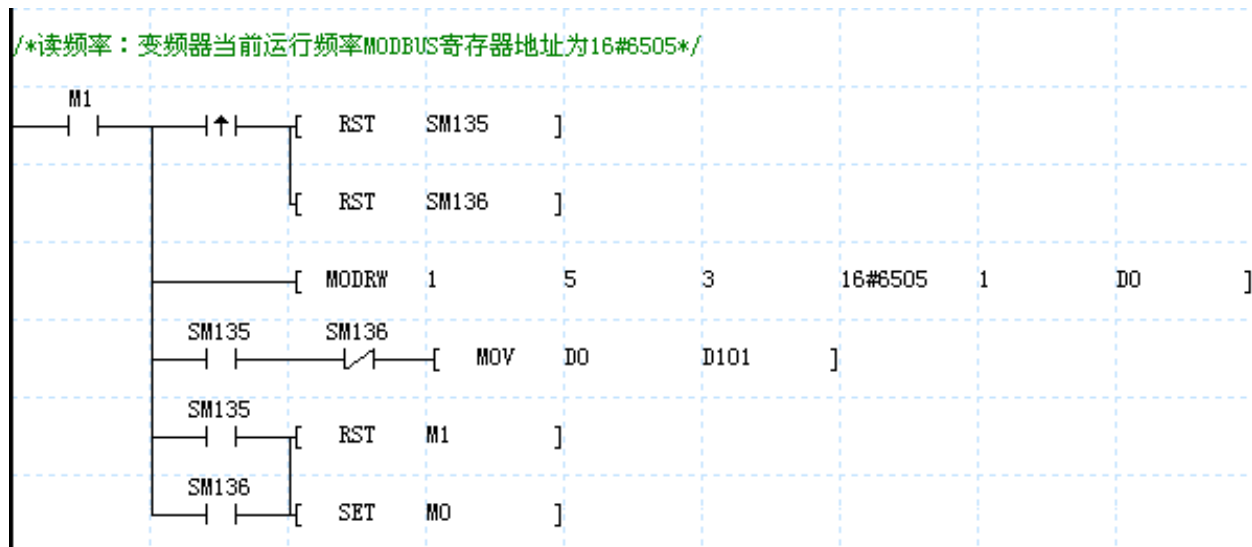
A J *\$\$

GA %)

H\$

GA % *





M90															
[MODLINK 1 D200 D46 M114 M156]															
G%	-BH'														
G&	-BH'	8'													
G	-BH'	8'													
G(	6CC@			A	G					7	H				
G)	6CC@			A	G					7	H				

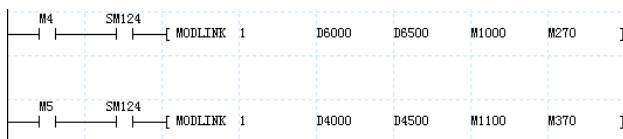
%

A C8@B? A C86I G
 A C8@B? A C8@B?
 A C8@B?
 A C8@B? A C86I G
 A C8@B?



8*\$\$\$

G&		
G&Z%	A	
G&Z&		\$
G&Z'		
G&Z(
G&Z)		
G&Z*		
G&Z+		
G&Z,		
G&Z-		%
G&Z%\$		
G&Z%%		
G&Z%&		
G&Z%'		
A		
A		



GA %&(

			8
\$%		% &\$\$\$	G) % #%
\$&		% &\$\$\$	G) % #%
\$		%&)	G)
\$(		%&)	G)
\$)		\$fZl YXL	%
\$*		\$fZl YXL	%
%		% % *	G) % #%
%		%&)	G)

A C8@B?

A C86I G

\$ B

G

G	\$
G Z%	%
G Z&	&
A	
A	
G ZB	B

G

A cXVi g

\$I \$%	
\$I \$&	
\$I \$'	
\$I %\$	
\$I %%	
\$I %&	#
\$I %	

G(\$
G(Z%	%
G(Z&	&
A	
A	
G(ZB	B



[RCV (S1) (D) (S2)]														
G%	=BH													
8	K CF8	8	J											F
G&	=BH		?bL	?bM	?bA	?bG	?b@A		8	G8	7	H	J	N F

&

\$ %

GA %% GA %%

F7J

%

8

J

8+---

J**

&

\$ %

SM1	[RCV 1 D20 5]
SM123	[INC D100]

@8 GA %

F7J % 8&\$)

@8 GA %&

=B7 8%\$\$

%

F7J

GA %

|---|---| CCITT (S1) (S2) (D)]														
G%	K CF8								8			J	F	
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8							8				J	F	

\$

%

77=HH

& 77=HH

LR%& LR) %

%

LR%

SM1	[	MOV	16#0	0	D0]	
	[	MOV	16#11	17	D1]	
	[	MOV	16#22	34	D2	]	@8 GA %
	[	MOV	16#33	51	D3	]	A CJ % \$8\$
	[	MOV	16#44	68	D4	]	A CJ % %8%
	[	MOV	16#55	85	D5	]	A CJ % &&8&
	[	MOV	16#66	102	D6	]	A CJ % '8'
	[	MOV	16#77	119	D7	]	A CJ % ((8(
	[	MOV	0	28097	D100	]	A CJ % .) '8'
	[	MOV	0	28097	D100	]	A CJ % **8*
	[	MOV	0	28097	D100	]	A CJ % ++8+
	[	MOV	0	28097	D100	]	@8 L\$
	[	MOV	0	28097	D100	]	A CJ \$ '8\$ \$
	[	MOV	0	28097	D100	]	77=HH'8\$, 8%\$ \$
	[	CCITT	D0	8	D100]	

L\$1CB 8\$ 77=HH

8%\$

|-----|-----| CRC16 (S1) (S2) (D) |															
G%	K CF8								8				J		F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8								8				J		F

\$

%

7F7%

& 7F7%

LR& %

LR% LR%

%

&

8

A cXVI g7F7

% : : : :

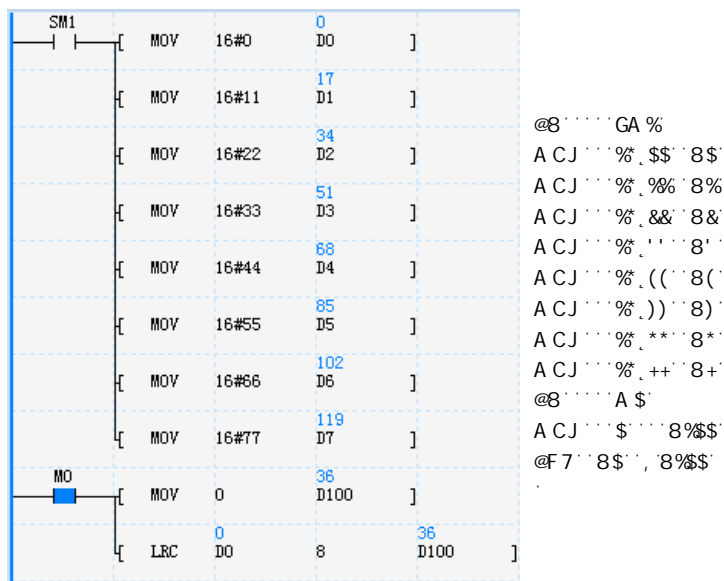
SM1	[	MOV	16#0	0	D0]	
	[	MOV	16#11	17	D1]	
	[	MOV	16#22	34	D2	]	@8 GA %
	[	MOV	16#33	51	D3	]	A CJ % \$ \$ ' 8 \$
	[	MOV	16#44	68	D4	]	A CJ % , % ' 8 %
	[	MOV	16#55	85	D5	]	A CJ % , & & ' 8 &
	[	MOV	16#66	102	D6	]	A CJ % , ((' 8 (
	[	MOV	16#77	119	D7	]	A CJ % ,)) ' 8)
X0	[	MOV	0	57708	D100	]	A CJ % , * * * ' 8 *
	[	CRC16	D0	8	57708	D100	A CJ % , + + ' 8 +

L \$1CB 8\$ 7F7%

8%\$

|---| |---| [ LRC (S1) (S2) (D)]															
G%	K CF8								8			J		F	
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8								8				J	F	

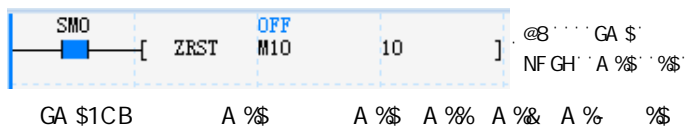
\$
@F7
%
&



L \$1CB 8\$, @F7
8%\$\$

|---| |---| [ ZRST (D) (S)]															
8	6CC@			M	A	G	@A			7	H				
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

% 7 7
& H H



| | [ ZSET (D) (S)]															
8	6CC@			M	A	G	@A				7	H			
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

SMD [ZSET ON M10 10]
@8 GA \$ NG9H A % \$

GA \$1CB A % A % A % A % A % \$

%

%

| | [ DECO (S) (D)]															
G	K CF8		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

\$ %
% \$

SMD [DECO 2 4 D9]
@8 GA \$ 8A 7C & 8-

8- & %

|---| |---| [ ENCO (S) (D)]																
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	-BH		? bM	? bA	? bG	? b@A			8	G8	7	H	J	N	F	

|-----|-----| [ BON (S1) (D) (S2)]															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8	6CC@		M	A	G										
G&	=BH								8				J		F

M1 [BON 32 ON DO YO 5] @8 A %
6CB 8\$M\$)

G& 6CB 8\$) fCBŁ 8 fM\$Ł

|-----| BLD (S1) (S2) |-----| )															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

| BLD 1000 DO 5 |-----| YO) 6@8 .. 8\$)
CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%0000%\$%\$\$\$ 6+) CB
M\$

|-----| BLDI (S1) (S2) |-( )															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

| BLDI 1000 DO 5 |-(Y0)

 6@8= 8\$) CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB

C:: M\$

|-----| BLD (S1) (S2) |-( )															
6@8 65B8															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

| BLDI 1000 DO 5 |-(Y0)

 @8 L\$ 65B8 8\$) CI H M\$

%\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB L \$1CB

M\$

<p>6@8=</p>														
<p>65B=</p>														
G%	K CF 8	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %)

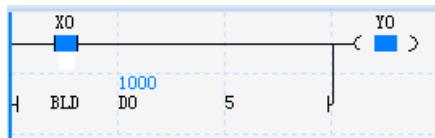


@8 L\$
65B= 8\$)
CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB C:
L\$1CB M\$

<p>6@8</p>														
<p>6CF</p>														
G%	K CF 8	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %)

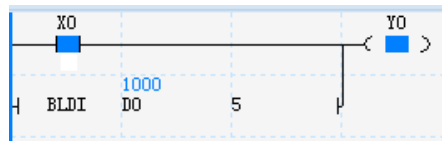


@8 L\$
6CF 8\$)
CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB
L\$1CB M\$

G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %



@8 L\$
6CF= 8\$)
CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%\$\$\$ 6+)

CB

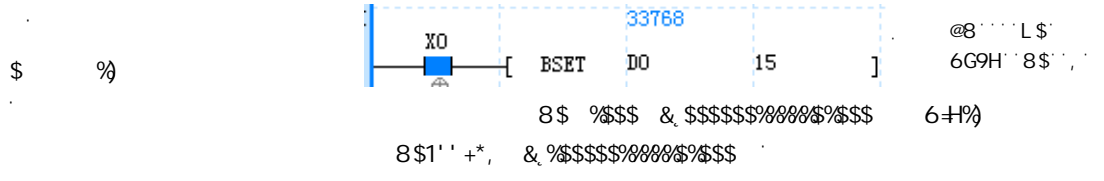
C: :

L \$1CB

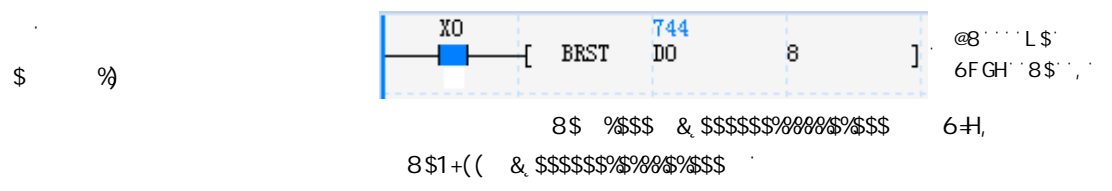
M\$

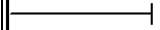

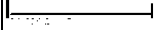

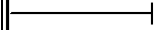

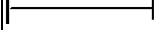

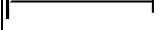

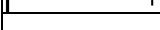

8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

| | [ BSET (D) (S)]																		
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F			
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F			









| | [ BRST (D) (S)]																		
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F			
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F			



	=	(S1)	(S2)	)											
	<	(S1)	(S2)	)											
	>	(S1)	(S2)	)											
	◇	(S1)	(S2)	)											
	>=	(S1)	(S2)	)											
	<=	(S1)	(S2)	)											
G%	⊖BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
G&	⊖BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	

%
&

6-B

H	=	1000	-2000	Y0
		D0	D1	
H	<	1000	-2000	Y1
		D0	D1	
H	>	1000	-2000	Y2
		D0	D1	
H	◇	1000	-2000	Y3
		D0	D1	
H	>=	1000	-2000	Y4
		D0	D1	
H	<=	1000	-2000	Y5
		D0	D1	

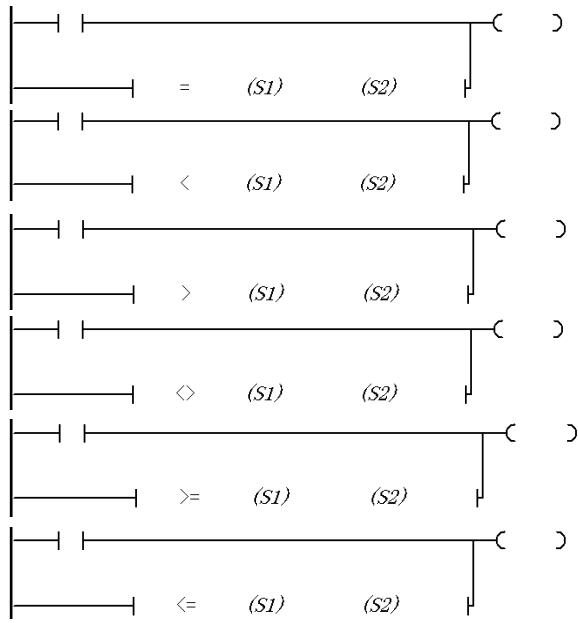
8\$ 8%





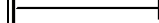



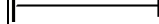



6-B

@81'' 8\$8%
 CI H'' M\$
 @80'' 8\$8%
 CI H'' M%
 @82'' 8\$8%
 CI H'' &
 @802'' 8\$8%
 CI H'' M''
 @821'' 8\$8%
 CI H'' M(
 @801'' 8\$8%
 CI H'' M)

$\vdash \vdash = (S1) (S2) \vdash \vdash$		
$\vdash \vdash < (S1) (S2) \vdash \vdash$		
$\vdash \vdash > (S1) (S2) \vdash \vdash$		
$\vdash \vdash \diamond (S1) (S2) \vdash \vdash$		
$\vdash \vdash \geq (S1) (S2) \vdash \vdash$		
$\vdash \vdash \leq (S1) (S2) \vdash \vdash$		

G% =BH ?bL ?bM ?bA ?bG

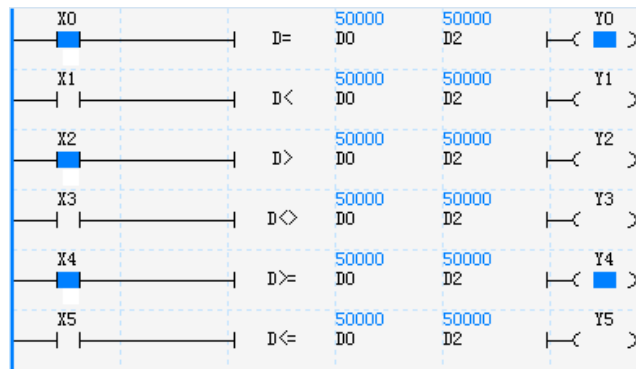


	D=	(S1)	(S2)	)
	D<	(S1)	(S2)	)
	D>	(S1)	(S2)	)
	D<>	(S1)	(S2)	)
	D>=	(S1)	(S2)	)
	D<=	(S1)	(S2)	)

	D=	(S1)	(S2)	
	D<	(S1)	(S2)	
	D>	(S1)	(S2)	
	D<>	(S1)	(S2)	
	D>=	(S1)	(S2)	
	D<=	(S1)	(S2)	

G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F

%
&

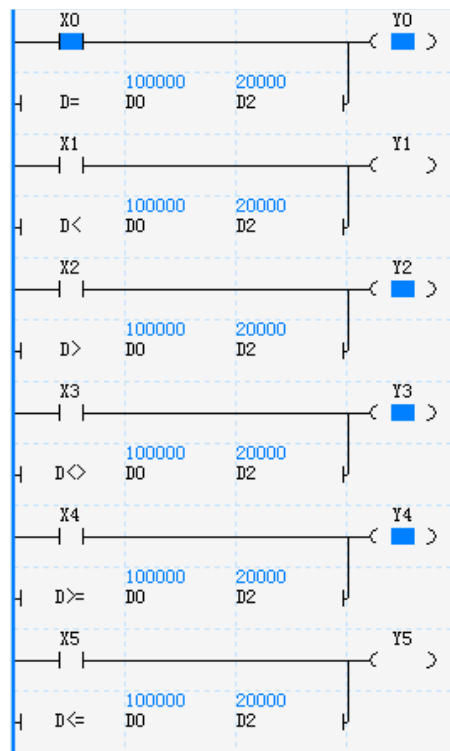


@8 L\$
 @881 8\$8&
 C I H M\$
 @8 L%
 @880 8\$8&
 C I H M%
 @8 L &
 @8802 8\$8&
 C I H M&
 @8 L'
 @8802 8\$8&
 C I H M'
 @8 L(
 @8821 8\$8&
 C I H M(
 @8 L)
 @8801 8\$8&
 C I H M)

8\$8% 8&8'

G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F			
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F			

%
&



```

@8 ..... L$
CF81 ..... 8$8&
CI H ..... M$
@8 ..... L%
CF80 ..... 8$8&
CI H ..... M%
@8 ..... L&
CF802 ..... 8$8&
CI H ..... M&
@8 ..... L'
CF821 ..... 8$8&
CI H ..... M'
@8 ..... L(
CF821 ..... 8$8&
CI H ..... M(
@8 ..... L)
CF801 ..... 8$8&
CI H ..... M)
    
```

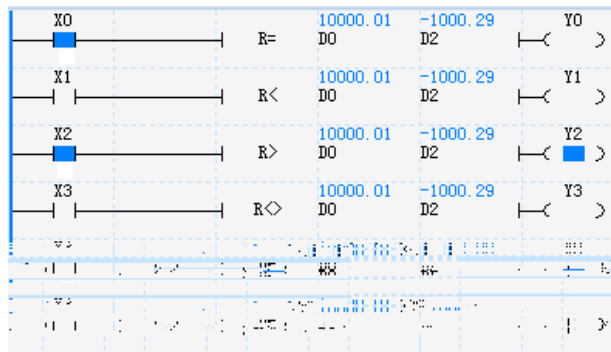
8\$8% 8&8'

	R=	(S1)	(S2))
	R<	(S1)	(S2))
	R>	(S1)	(S2))
	R<>	(S1)	(S2))
	R>=	(S1)	(S2))
	R<=	(S1)	(S2))

//

		R=	(S1)	(S2)	┌()		
		R<	(S1)	(S2)	┌()		
		R>	(S1)	(S2)	┌()		
		R<>	(S1)	(S2)	┌()		
		R>=	(S1)	(S2)	┌()		
		R<=	(S1)	(S2)	┌()		
G%	F95@					8	J F
G&	F95@					8	J F

%
&

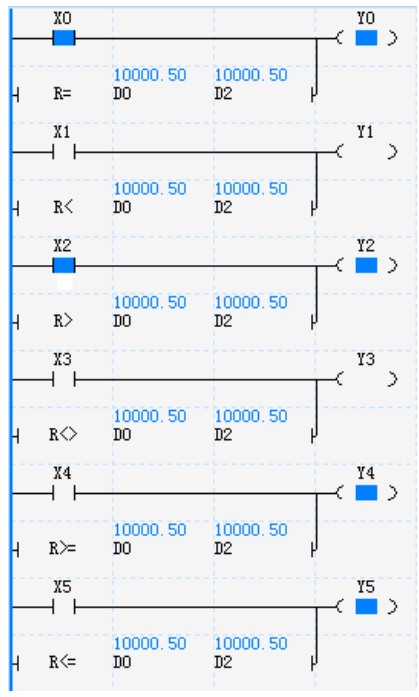


@8 L\$
5B8F1 8\$8&
CI H M\$
@8 L%
5B8F0 8\$8&
CI H M%
@8 L&
5B8F02 8\$8&
CI H M&
@8
5B8F02 M
@8 L(
5B8F21 8\$8&
CI H M(
@8 L)
5B8F01 8\$8&
CI H M)

8\$8% 8&8'

G%	F 95@		
G&	F 95@		

%
&



@8 L\$
 CFF1 8\$8&
 CI H M\$
 @8 L%
 CFF0 8\$8&
 CI H M%
 @8 L&
 CFF2 8\$8&
 CI H M&
 @8 L'
 CFF02 8\$8&
 CI H M'
 @8 L(
 CFF21 8\$8&
 CI H M(
 @8 L)
 CFF01 8\$8&
 CI H M)

8\$8% 8&8'

| | [ CMP]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	6CC@			M	A	G									

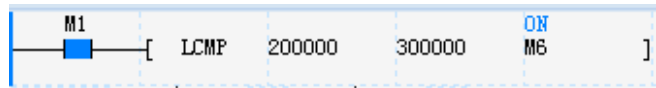
Ž% Ž& CB



[]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	N	F
8	6CC@			M	A	G									

Ž% Ž& CB

%
&



| | [ RCP]																
G%	F 95@									8					F	
G&	F 95@									8					F	
8	6CC@			M	A											

[BKSUB (S1) (S2) (D) (S3)]															
BKSUB															
G%	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'	.
G&	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'	.
8'	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'	.
G'	=BH'	.	.	.	.	.	.	.	8'	.	.	.	J'	F'	.

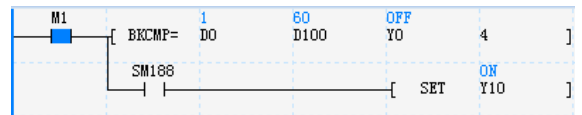
M1	[BKSUB	1	30	-29	5]
		D10	D100	D1000		

%

&

A %dCB 8%\$) 8%\$\$
)
8%\$\$\$) 8%\$\$\$18%18%\$\$
8%\$\$%18%18%\$ 8%\$(18%18%\$(

<p> [BKCMP= (S1) (S2) (D) (S3)] [BKCMP< (S1) (S2) (D) (S3)] [BKCMP> (S1) (S2) (D) (S3)] [BKCMP<= (S1) (S2) (D) (S3)] [BKCMP>= (S1) (S2) (D) (S3)] [BKCMP>= (S1) (S2) (D) (S3)] </p>														
BKMP														
G%	-BH'								8'	G8'	7'	H'	J'	F'
G&	-BH'								8'	G8'	7'	H'	J'	F'
8'	6CC@'		M	A'	G'	@A'	GA'							
G'	-BH'								8'				J'	F'



%

@8' A %'

6? 7A D1' 8%\$' 8%\$\$' M\$' ('

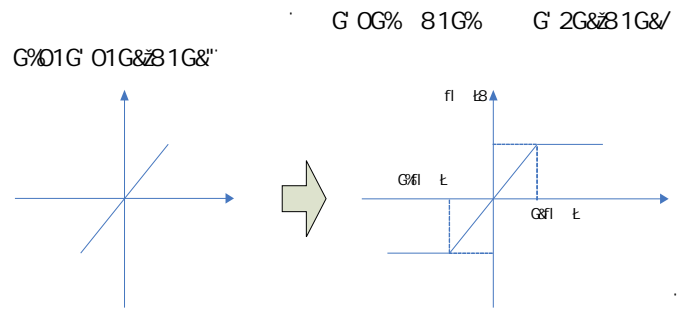
@8' GA % ,'

G9HM/\$'

& G% %' zG%
 G% G& g %
 8 G'
 8 G' CB
 GA % ,

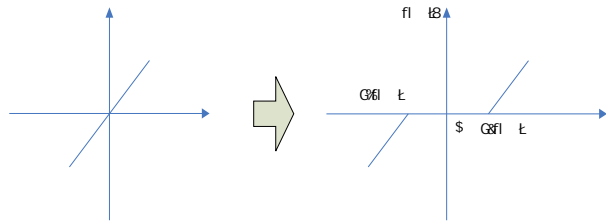
A %CB 8%\$ (8%\$\$
 (M\$
 (CB M\$
 CB

[LIMIT (S1) (S2) (S3) (D)]															
G%	=BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
G&	=BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
G	=BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
8	=BH'			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F	



M1	[	LIMIT	10	100	30	30]
		DO	D10	D100	D1000		

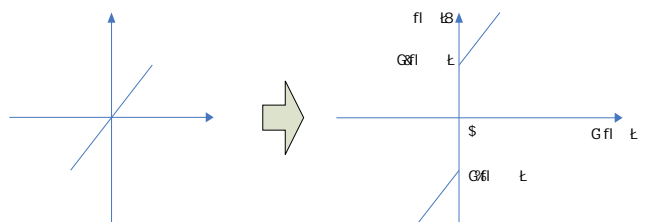
|-----|-----| [ DBAND (S1) (S2) (S3) (D)]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G'	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'

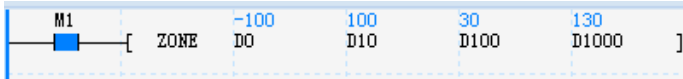


M1				
	[DBAND	-100	100	30
	D0	D10	D100	D1000

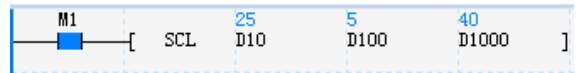
G OG% 81G IG%
 G 2G&81G IG&/ G%01G 01G&81G\$"

|-----|-----| [ ZONE (S1) (S2) (S3) (D)]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G'	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'





|-----|-----| [ SCL (S1) (S2) (D)]														
G%	=BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8'	G8'	7'	H'	J'	F'
G&	=BH'								8'				J'	F'
8'	=BH'			? bM	? bA	? bG	? b@A		8'	G8'	7'	H'	J'	F'



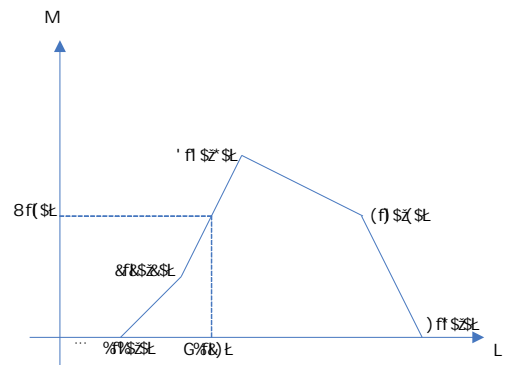
% 8 G%
& 8 G&
%

%	L	G&Z%	
	M	G&Z&	
&	L	G&Z'	
	M	G&Z(
A	A	A	
bfl t	L	G&Z &b1%	
	m	G&Z &b'	

A %CB 8%\$
8%\$\$\$

%	L	8%\$\$	%\$
	M	8%\$\$	\$
&	L	8%\$	&\$
	M	8%\$	&\$
...	L	8%\$)	' \$
	m	8%\$*	*\$
(	L	8%\$+)\$
	m	8%\$	(\$
)	L	8%\$-	*\$
	m	8%\$	\$

% L
& G%



SER (S1) (S2) (D) (S3)														
G%	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F
G&	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F
8	-BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F
G	-BH								8				J	F

/ % G G ž G&
ž d)

%

*

|-----|-----[ STRADD (S1) (D) (S2)]															
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'	
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'	
8'	=BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'	

% G% G&

8

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3

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11 1

STRIIGHT														
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	=BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'
G&	=BH'								8'				J'	F'

% G% \$\$\$<

& G& \$
' G& G%

% G% \$\$\$<
G& 8
& G& 8
\$\$\$<

M1	12849	13363	
[STRIIGHT	D10	D100	3]

A %CB 8%
8%\$\$

6%!!!V, V+!!!V\$		6%!!!V, V+!!!V\$	
8% \$' &	\$' %	8%\$ \$')	\$' (
8% \$' (	\$' ''	8%\$ \$' \$	\$' *
8% \$' *	\$')		
8% \$' \$	\$' \$		



(\$\$\$<
(
\$\$\$<

|-----|-----| [ STRLEFT (S1) (D) (S2)]															
G%	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
8	-BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F	
G&	-BH								8				J	F	

%

|-----|-----| [ STRMIDR (S1) (D) (S2)]															
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'	
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'	

|-----|-----| [ STRMIDW (S1) (D) (S2)]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'

% G& G%
& b !&'
' G& %
b
(8
) G%B \$\$\$<
% G% b
8 G&
b
&
\$\$\$<
' b \$
(b !% G%
8

M1	12849	12596	2
[STRMIDW	D10	D100	D0]

A %|CB	8%\$	8% 8%|'
8%\$\$	8\$ 8\$1&	
8% 8%|'		
6%!!!V, V!!!VS	6%!!!V, V!!!VS	6%!!!V, V!!!VS
8%\$ \$' & \$' %	8%\$ \$' ) \$' (	8%\$ \$' % \$' (
8%\$ \$' (\$' '	8%\$ \$' + \$' *	8%\$ \$' ' \$' &
8%\$ \$' \$ \$')	8%\$ \$' - \$' ,	8%\$ \$' - \$' ,
	8%\$ \$' \$ \$' *%	8%\$ \$' \$ \$' *%

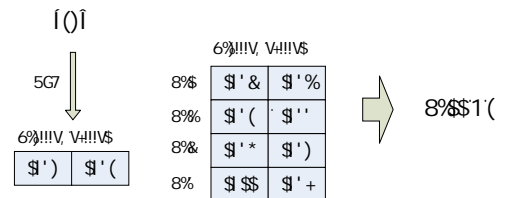
|-----|-----| [ STRINSTR (S1) (S2) (D) (S3)]															
G%	=BH'									8'	G8'	7'	H'	J'	F'
G&	=BH'									8'	G8'	7'	H'	J'	F'
8'	=BH'									8'	G8'	7'	H'	J'	F'
G'	=BH'									8'				J'	F'

& G' G&
 ' G% ' & z
 (G% \$\$< G&
 \$\$< G&
 \$\$<

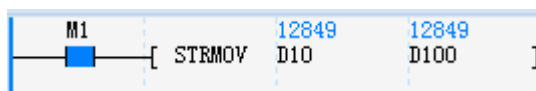
% G& G'
 G%
 & 8 8 \$
 ' G \$
 (\$\$<
 % G% G&
 \$\$<

M1	[STRINSTR	"45"	D10	D100	2]
----	---	----------	------	-----	------	---	---

A %CB 8%\$ &
 () 8%\$\$



[STRMOV (S) (D)]															
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
8	-BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F	



% G \$\$\$<

8

/

A %CB

8%

8%%\$

&

\$\$\$<

6%!!!V, V!!!V\$

6%!!!V, V!!!V\$

% G

\$\$\$<

& G

8

\$\$\$<

G%

' &

z

8%	\$' &	\$' %
8%	\$' (\$' '
8%	\$' *	\$')
8%	\$ \$ \$	\$ \$ \$



8%%\$	\$' &	\$' %
8%%\$	\$' (\$' '
8%%&	\$' *	\$')
8%%\$	\$ \$ \$	\$ \$ \$

G%	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J		F
G&	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J		F
G	6CC@		L	M	A	G									
8%	6CC@			M											

F_a bSacc

' & A 7%\$\$ A 7&\$\$ %\$ %\$\$\$\$ <n
 A 7& \$ %\$ &\$\$\$\$ <n
 8C; CB

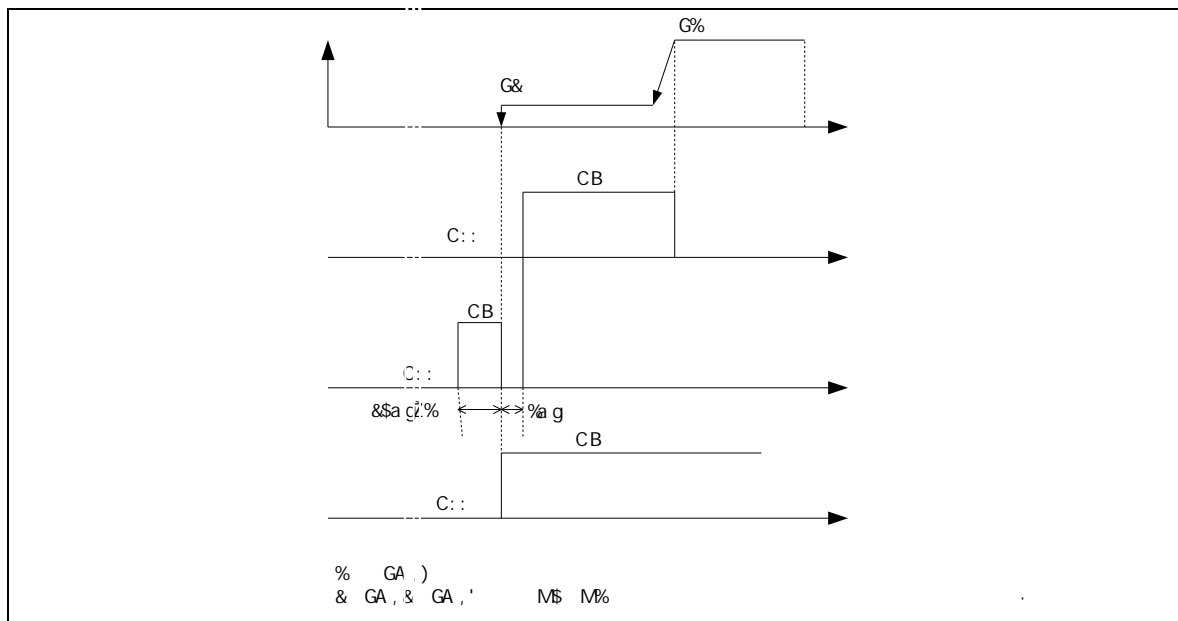
L
 L
 D@7
 A 7%\$\$ A 7&\$\$
 M\$ M% A 7& \$z M\$ M%)
 M& M M(M) M* M+

GA ,) M\$
 M% M& M GA ,)
 M& M

(A 7&\$\$ A 7& \$ G8 A 7%\$\$ *
 z
) NFB +

&

$$F_{a} bSacc = \sqrt{\frac{F_{au}}{T}} \cdot \text{G8,) G8, *} \text{G8, +}$$



| | | [ PLSV (S) (D1) (D2)]												
G	8-BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	J	F

|---|---| [ DRVI (S1) (S2) (D1) (D2)]														
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
8%	6CC@			M										
8&	6CC@			M	A	G								

$$F_{a|bS_{acc}} \sqrt{\frac{F_{au}}{T}}$$

' & -----
 <n
 F_{au} G8,) G8,*
 T G8,+
 $F_{a|bS_{acc}}$

' & A 7%\$\$ A 7&\$\$ % \$\$\$\$\$ <n A 7& \$
 % \$\$\$\$\$ <n

A 7%\$\$ A 7&\$\$
 M\$ M% A 7& \$z M\$ M% M&
 M M(M) M* M+

- 8& CB
- 8& C::

%

- M\$ G8, \$ G8, % ' &
- M% G8, & G8, ' ' &

&

(

)

*

C::
 GA, \$GA, % CB
 +'' GA ((\$ GA ((% GA ((' M\$M% M&M
 M*#M+ 56 CB 56 C::
 C::

A 7&\$\$ A 7& \$ G8 A 7%\$\$ z

|---|---| DRVA (S1) (S2) (D1) (D2)]															
G%	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8%	6CC@			M											
8&	6CC@			M	A	G									

' & -----
 <n
 ' & A 7%\$\$ A 7&\$\$ %\$ %\$\$\$\$\$ <n A 7& \$
 %\$ &\$\$\$\$\$ <n
 A 7%\$\$ A 7&\$\$
 M\$ M% A 7& \$Z M\$ M% M&
 M M(M) M* M+
 D@7

$$F_{a|bSacc} \sqrt{\frac{F_{au}}{T}} \cdot$$

G8,) G8,*
 G8, +
 $F_{a|bSacc}$

CB C: :
 (%
 %
 • M\$ G8, \$ G8, % ' &
 • M% G8, & G8, ' ' &
 &
 ()
) C: :
 GA
 * C: :
 GA, \$ GA, % CB *
 +'' GA ((\$ GA ((% GA ((' M\$M% M&M
 M*#M+ 56 CB 56 C: :
 C: :
 +

A 7&\$\$ A 7& \$ G8 A 7%\$\$ ž

|---| |---| [ ABS (S) (D1) (D2)]															
G	6CC@	L	M	A	G										
8%	6CC@		M	A	G										
8&	8-BH		?bM	?bA	?bG					8	G8	7			F

) 56G CB 56G

G& %G & L

* 56G

' & *

8% 8% % 8% & M + 56GV] \$ V] % &

, \$

' &

8& 8& % &

56G

G8, \$ G8, & ' &

G8, \$ G8, &

% D@7

D@7

& 56G 8&

G8, \$

G8, &

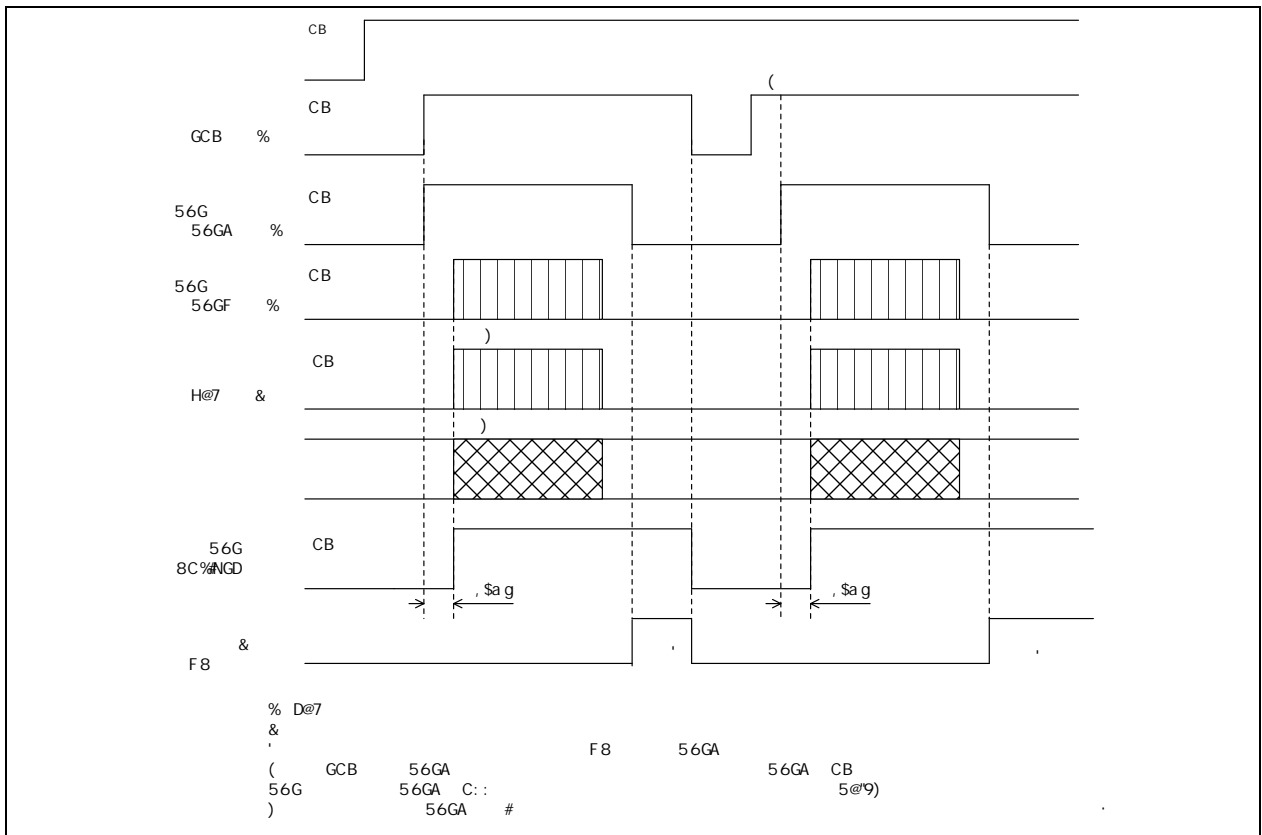
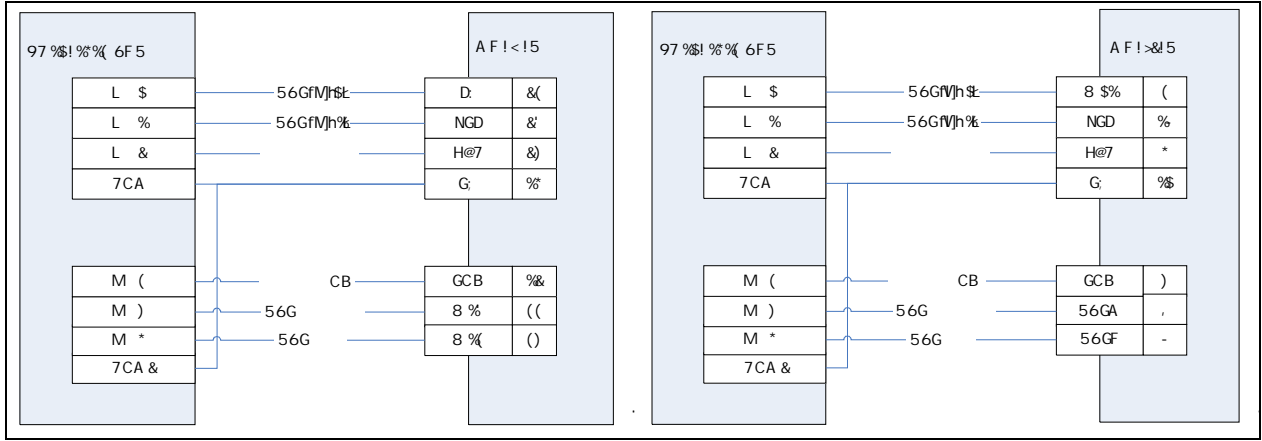
' 56G 56G

56G

CB C::

(GA, & GA, ' M\$ M%

)'' A 7&\$ A 7& \$ G8 A 7%\$ ž



56G A F >& A F >&G 56G

' &

56G 56G

| | [ DSZR]		

G%	6CC@		L	M	A	G									
G&	6CC@		L												
8%	6CC@			M											
8&	6CC@			M	A	G									

8C; , Eÿ S & M

L\$ L+

A 7%\$ A 7&\$\$

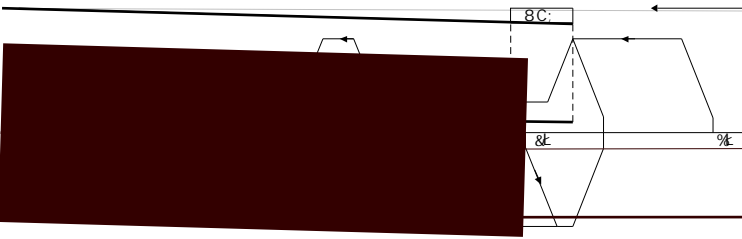
M\$ M% A 7& \$

M\$ M%

M& M (M) M* M

Aî AÑ 9Aî

B'6ž"SPó- D€ 9 T\$ T€ \$ew síe Mō T€ # ÁUÁ¾'6ž T€ Y T€ Mō T€ # \$ ĀS síe T€



~ ~ ~
A V V V V V N N N N N O O O O O Ń Ń Ń Ń Ń A A A A A N N N N

SMD	[	DMOV	100000	100000	SD202]
	[	MOV	100	100	SD204]
	[	MOV	5000	5000	SD205]
	[	MOV	2000	2000	SD207]
	[	MOV	8000	8000	SD208]

8C;

M8	[	DSZR	OFF	OFF	OFF	OFF]
			M100	X0	Y0	Y4	

[STOPDV]															
G%	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
G&	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
G	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8	6CC@			M											

%

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M\$

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M% M& M M(M) M* M+

%

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CB
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M\$ M%

M& M M(M) M* M+ M% M

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@B 7K

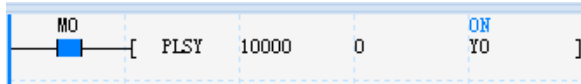
77K

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D@GM M\$

CB#C::

A \$



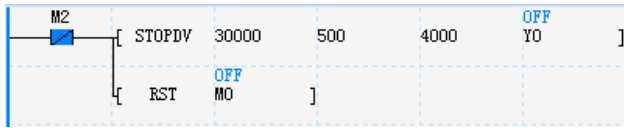
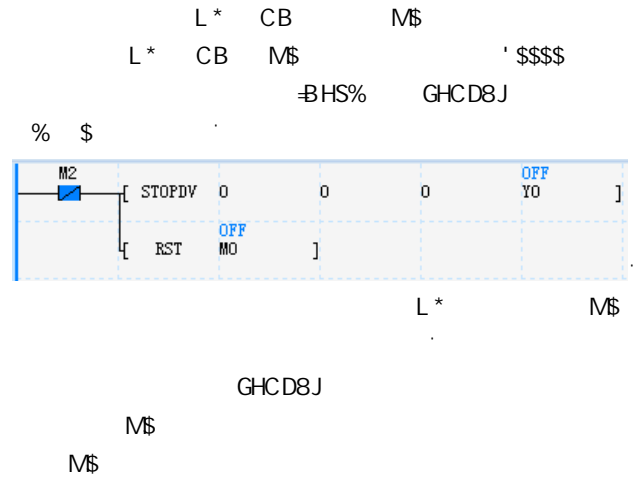
INT_1

程序名称: INT_1 作者: _____

中断事件: X6输入上升沿中断(中断号=6) ...

程序说明:

确定 取消



[LUN]			
G	8-BH		8
8%	6CC@	M	
8&	6CC@	M	
8'	6CC@	M	
8(	6CC@	M	

8		%\$
GZ%	! " A	CB#Y A C:: A
		Z
		%\$

%
&

8	
G	

%

M\$ M& M% M M\$ M&

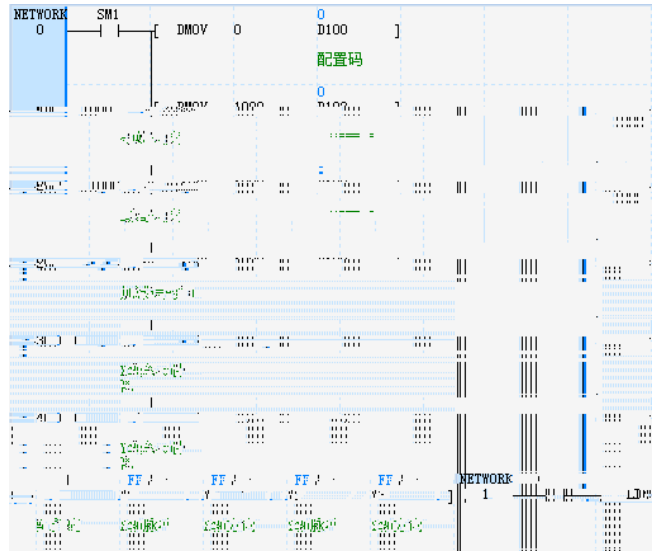
8% 8' M(AM)AMAM+ &

& M\$ M& Z
Z %\$\$_ M(M)

M* M+ Z
&\$_

' %*Z++Z&@)

(

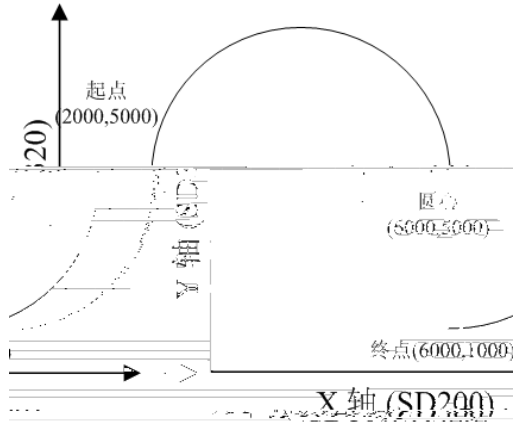


[OW]																
G	8-BH									8						
8%	6CC@			M												
8&	6CC@			M												
8'	6CC@			M												
8(	6CC@			M												

%

&

8			
G			
	\$		
	%		
GZ%	%\$		
	\$\$		CB# C::
	\$%		Z
	%\$		CB# C::
	%%		Z
GZ&			
GZ'			
GZ(
GZ)			
GZ*			
GZ+			
GZ,	L		
GZ-	L		
GZ%\$	M		
GZ%%	M		
GZ%&	L	#	L
GZ%'	L	#	L
GZ%&	M	#	



NETWORK 0	SM1	[	DMOV	0	0	D100]								
						配置码									
		[	DMOV	1000	0	D104]								
						配置码									
		[	DMOV	4000	0	D108]								
						X轴移动距离									
		[	DMOV	-4000	0	D110]								
						Y轴移动距离									
		[	DMOV	4000	0	D112]								
						圆心X轴相对位置									
		[	DMOV	0	0	D114]								
						圆心Y轴相对位置									
NETWORK 1	MO	[	CW	0	OFF	OFF	OFF	OFF							
				D100	Y0	Y1	Y2	Y3							
				配置码	X轴脉冲	X轴方向	Y轴脉冲	Y轴方向							

| | | [ CW]														
G	8-BH								8					
8%	6CC@			M										
8&	6CC@			M										
8'	6CC@			M										
8(6CC@			M										

8				
GZ%	%\$			
	\$		CB#	C::
	\$%		Z	
	%\$		CB#	C::
	%		Z	
GZ&				
GZ'				
GZ(
GZ)				
GZ*				
GZ+				
GZ,	L			
GZ-	L			
GZ%	M			
GZ%%	M			
GZ%&	L	#	L	
GZ%'	L	#	L	
GZ%(M	#	M	
GZ)%	M	#	M	

%

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8	
G	
	\$
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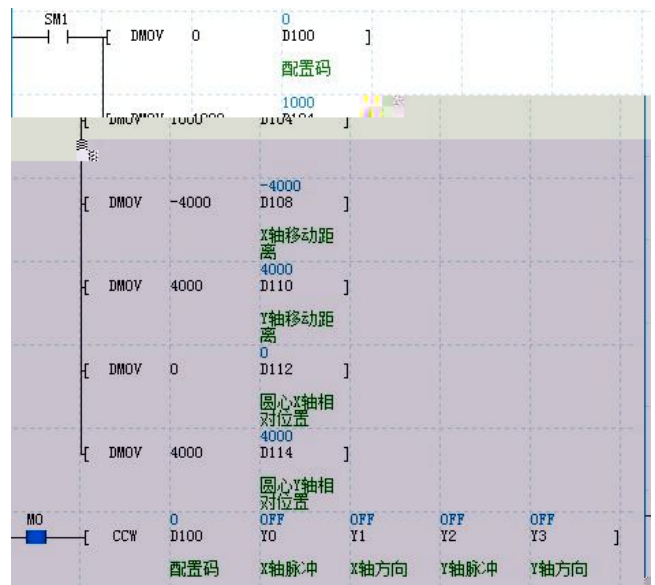
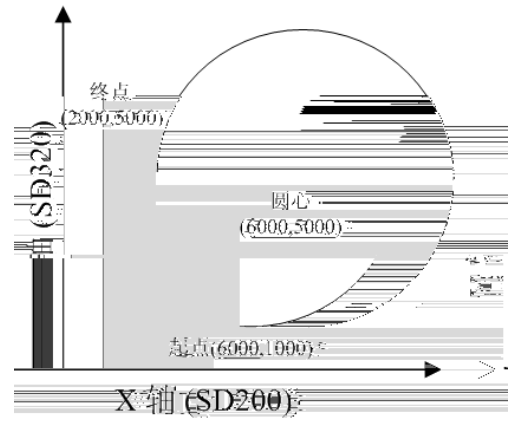
L M

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G8

*\$\$\$ %\$\$\$

M\$ M& M% M M\$ M&
 8% 8' M(M) M+ M+ &
 & M\$ M& Z
 M+ M+ &\$_ M(M)
 (% Z+++Z%)
)



[NOELINK]														
G%	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'	
G&	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'	
G'	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'	
G('	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'	
G)	6CC@'			M										
G*	6CC@'			M							7'			

[GEARBOX]		

[DRVC (S1) (D1) (S2) (D2)]														
G%	6CC@										7			
8%	8-BH								8					
G&	6CC@			M										
8&	8-BH								8					

h1 G8&\$) | fZ g&\$ (L f G8&\$& G8&\$ (L
 &" g f#\$\$\$L | fZ G8&\$ (L

M\$ GA, \$
 M GA

(""
)"

*" M\$ GA, & CB

C: :

+ " M\$ r M\$

% M
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M10	[DRVC	OFF	100000	D0	OFF	OFF
	[C236		Y0		Y4

[CAMTABLE (S1) (S2) (S3) (S4) (S5)]														
G%	BH'								8'	G8'	7'		J'	
G&	8-BH'								8'	G8'	7'		J'	
G'	BH'								8'	G8'	7'		J'	
G(BH'								8'	G8'	7'		J'	
G)	BH'								8'	G8'	7'		J'	

M1														
M3														

[CAMBOX (S1) (D1) (D2) (D3) (D4)]														
G%	=BH			M					8	G8	7		J	
8%	6CC@	L	M								7			
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M1	[↑	[CAMTABLE	R10	D12	D14	D16	D18]
M3	[[CAMBOX	D0	X0	Y2	Y3	X10]

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HUYS

[MEAN (S1) (D) (S2)]										MC280				
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H		F
8	=BH			? bM	? bA	? bG	? b@A		8	G8	7			F
G&	=BH								8					F

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M1	[MEAN	32	10	4]
			D0	D10		

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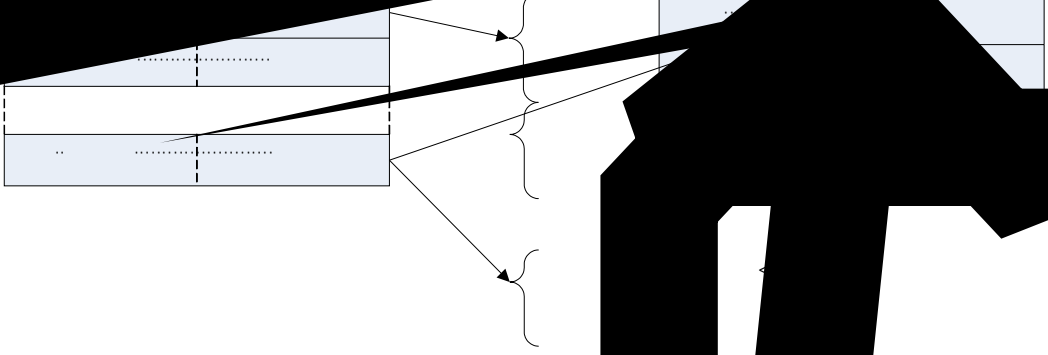
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[WTOB (S1) (D) (S2)]										MC280				
										7				
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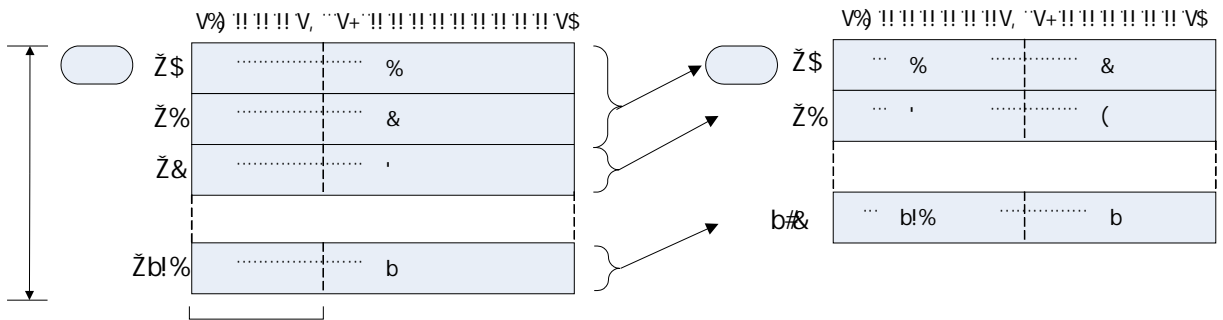


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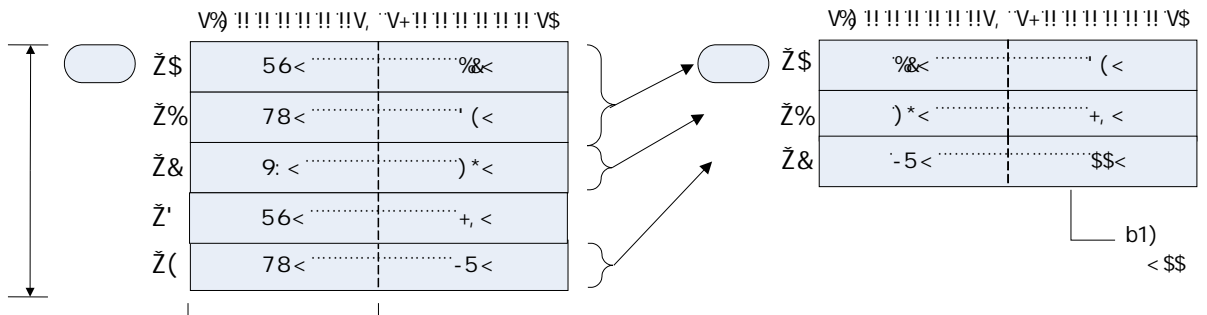
BTOW (S1) (D) (S2)												
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G&	-BH							8	G8	7	H	F
8	-BH							8				F

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M1	[BTOW	1	258	8]
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|—| |—| [**UNI** (*S1*) (*D*) (*S2*)]

S2)]										
			8	G8	7	H		F		
			8	G8	7	H		F		
			8					F		

— — [ANS (<i>S1</i>) (<i>S2</i>) (<i>D</i>)]		
<i>S1</i> <i>S2</i> <i>D</i>		

----- ----- [RND (D)]													
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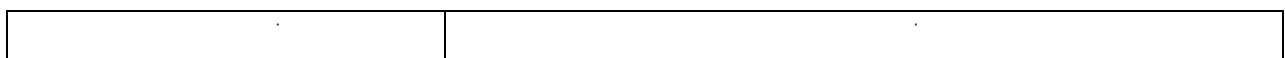
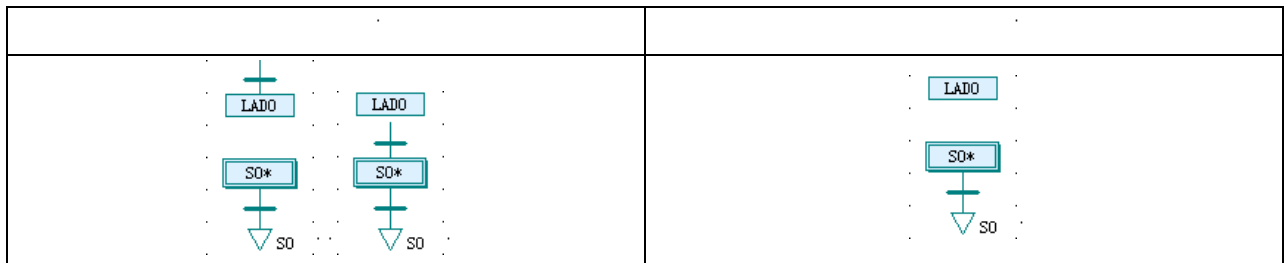
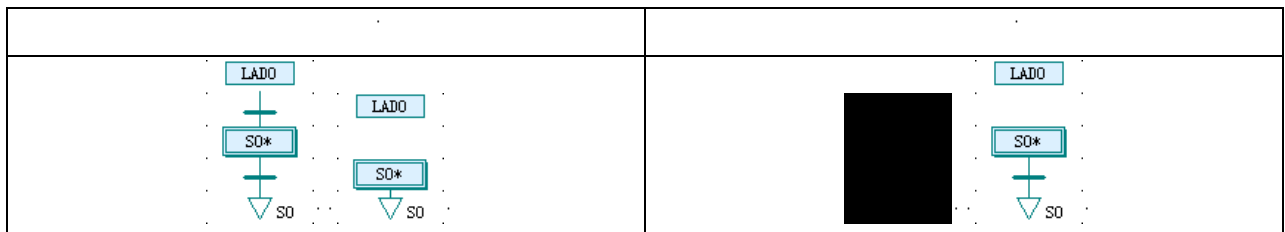
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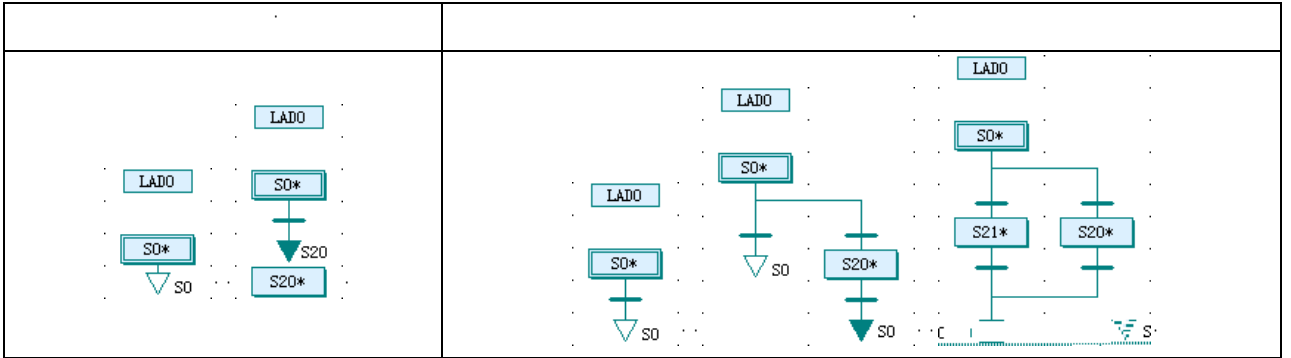
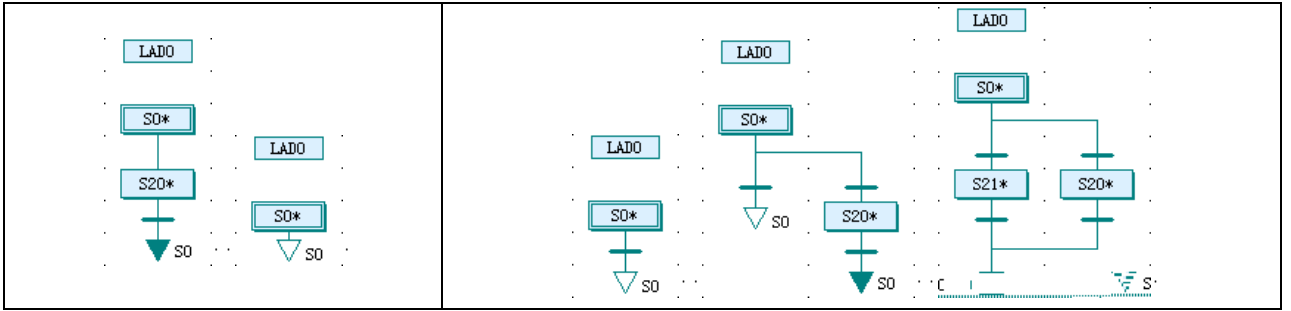
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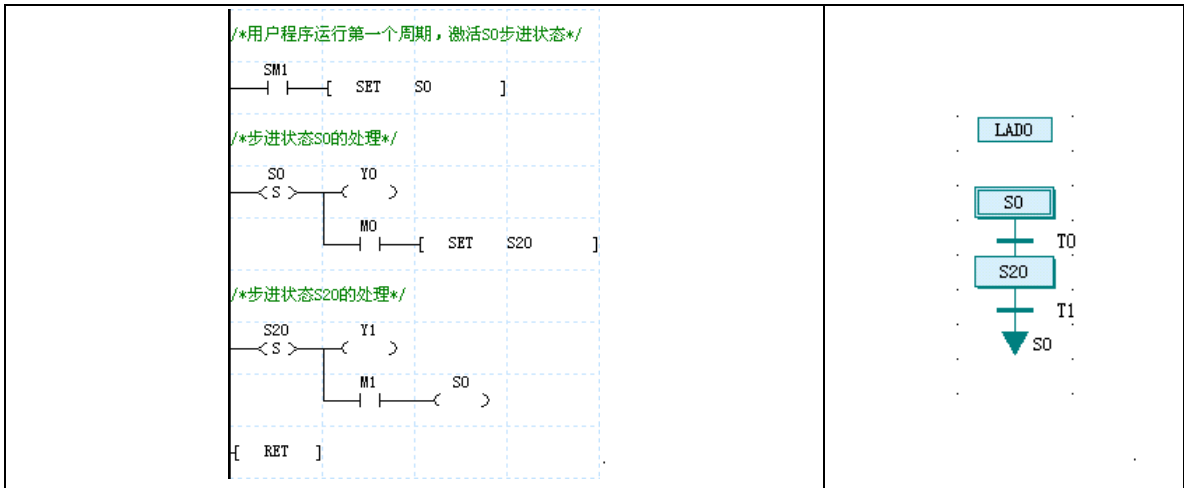
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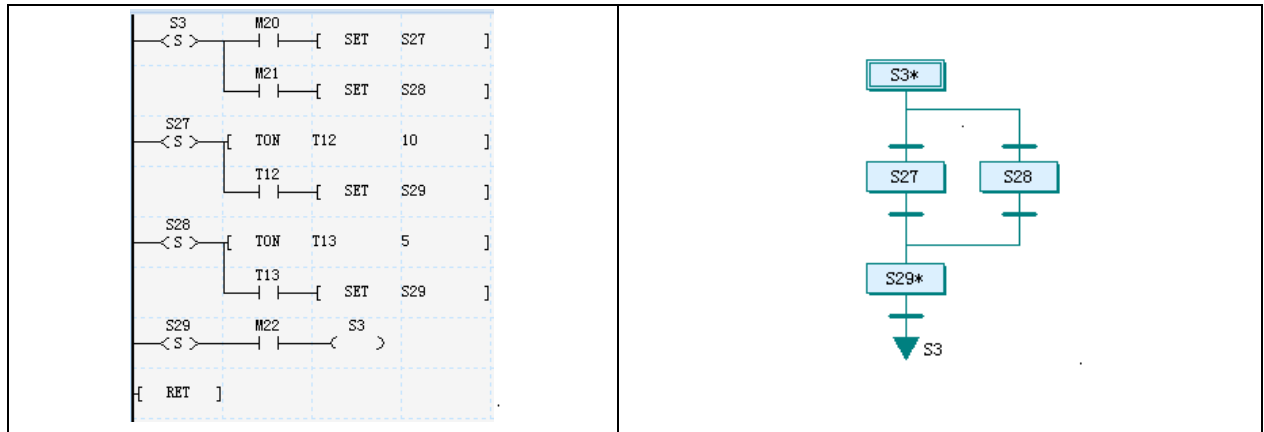
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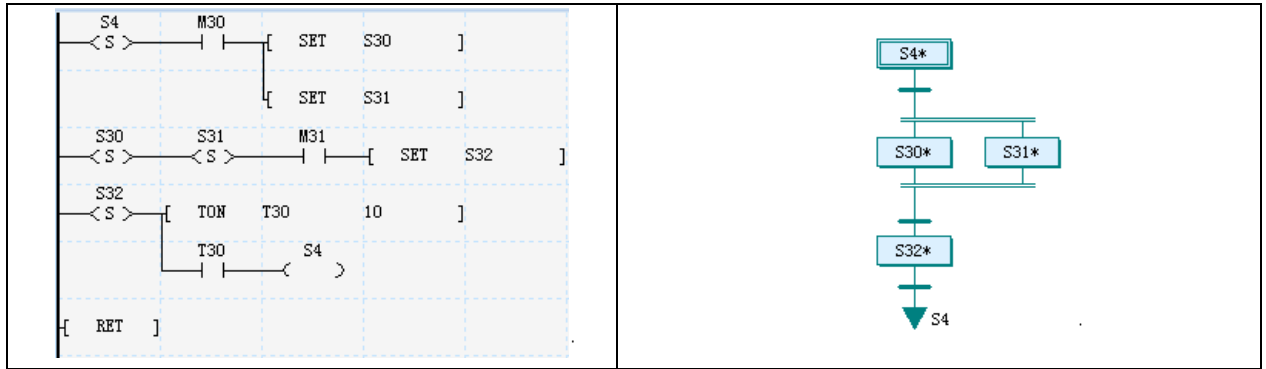
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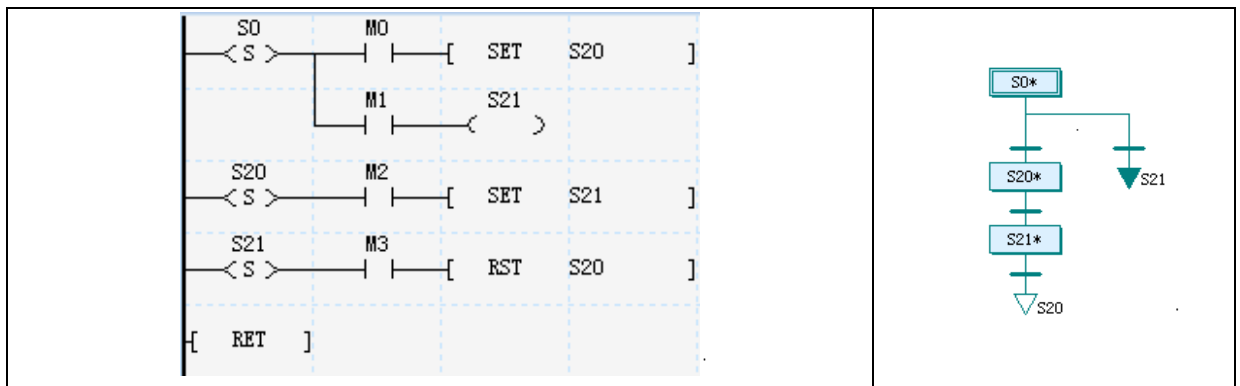
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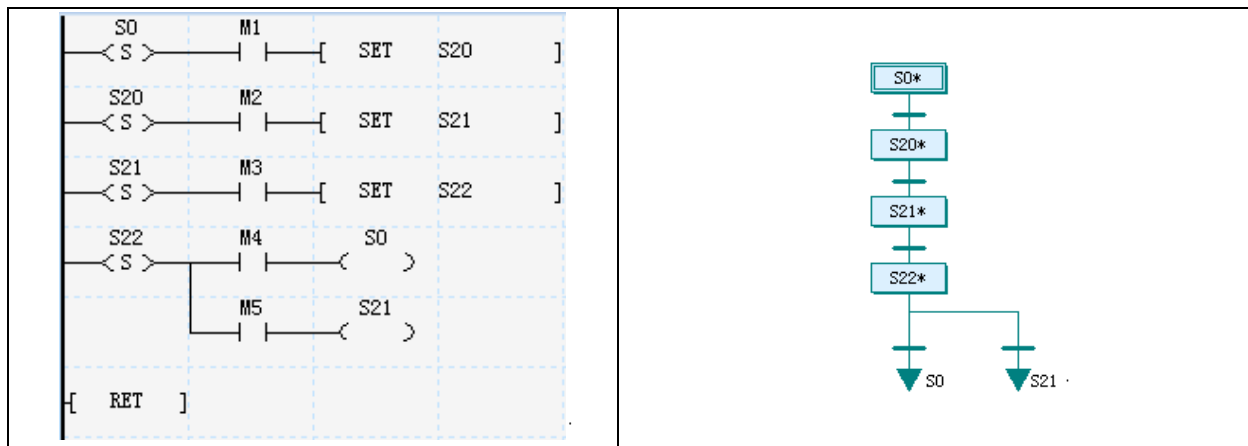
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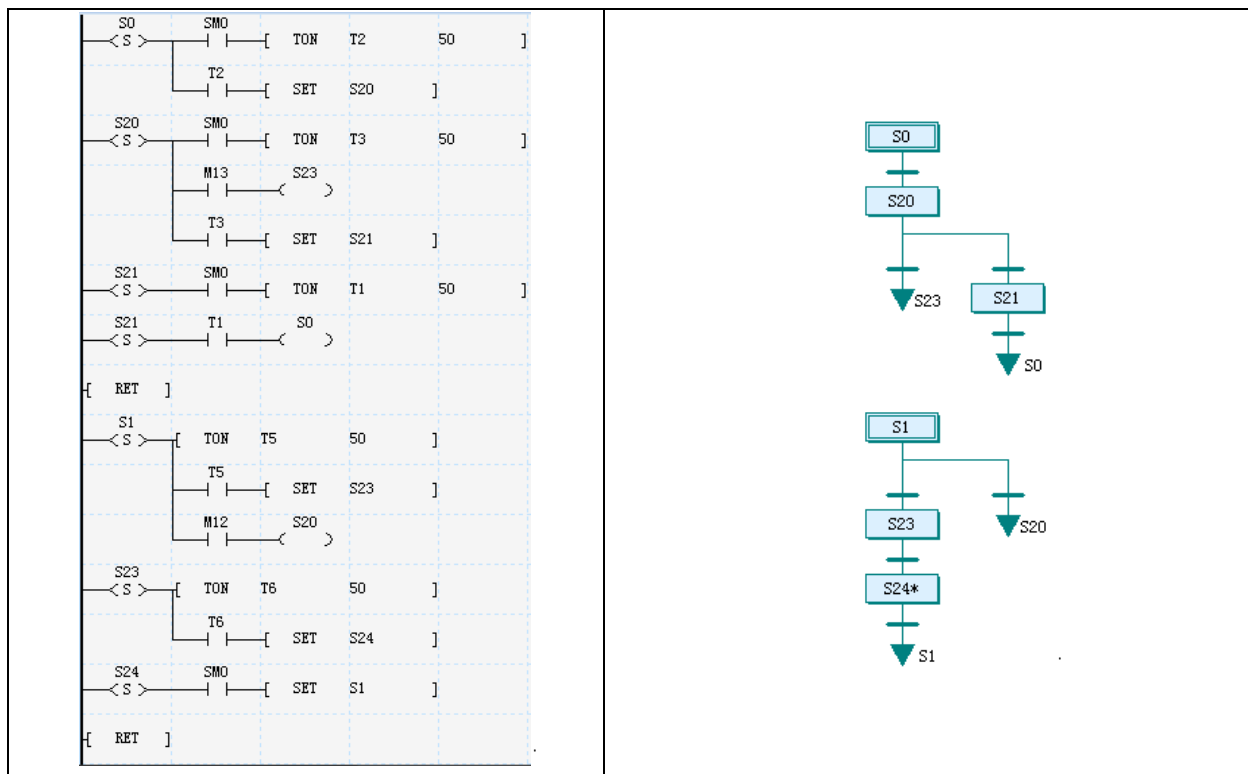
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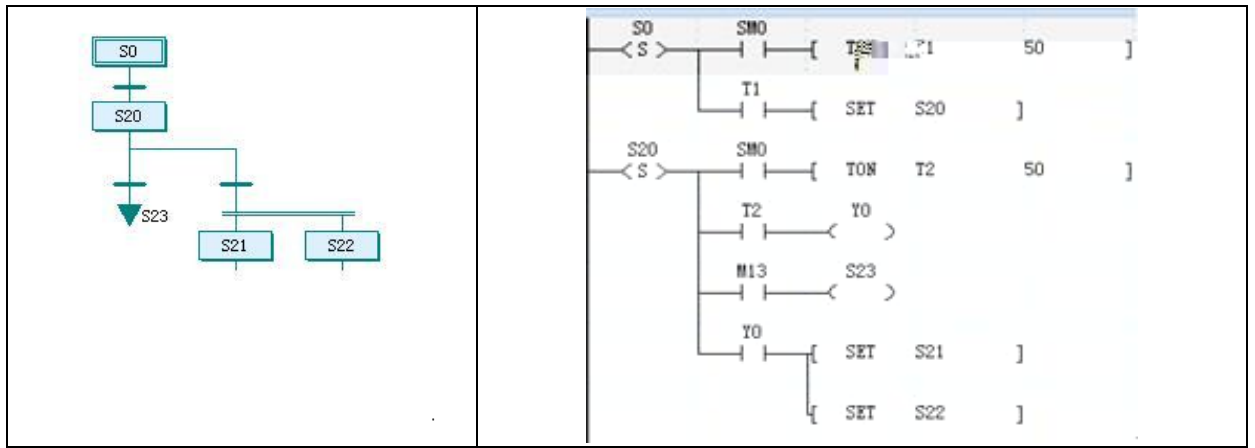
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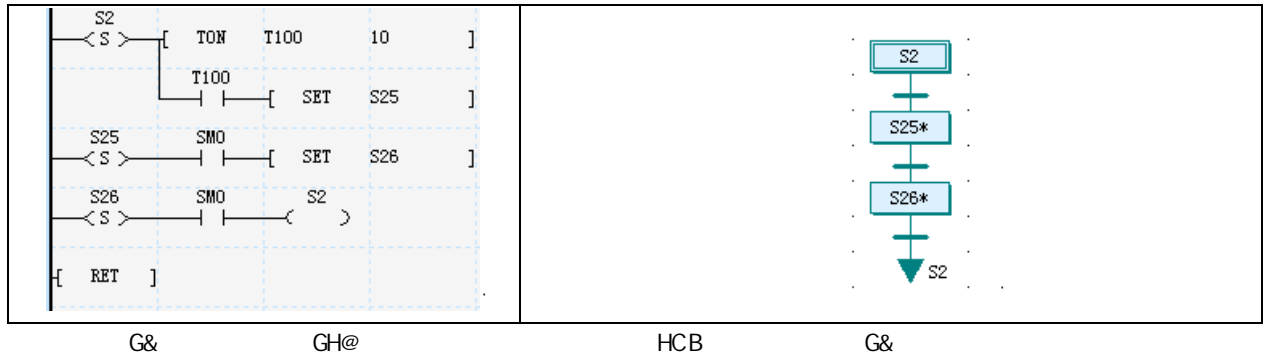
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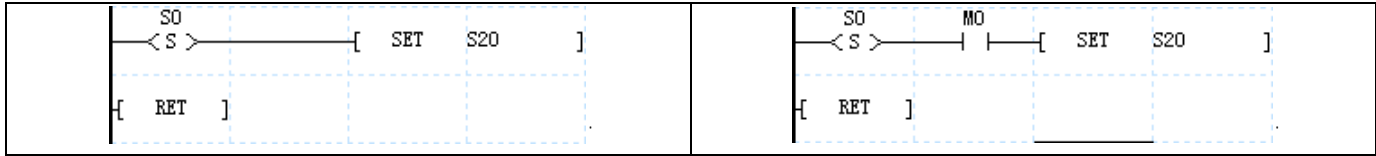
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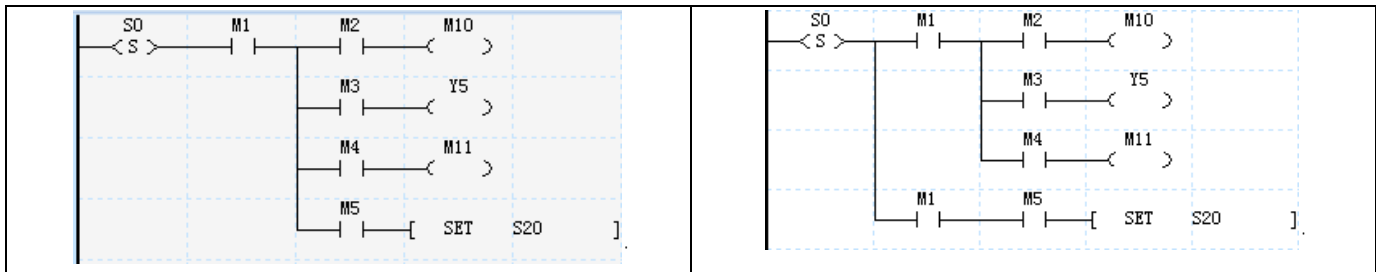
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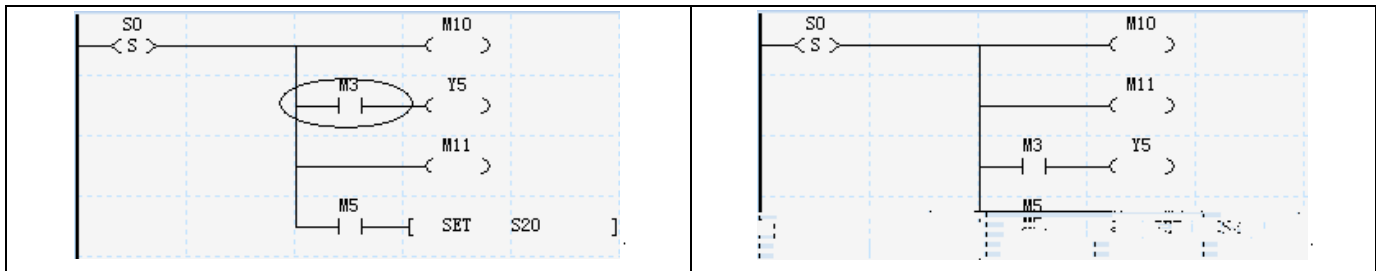


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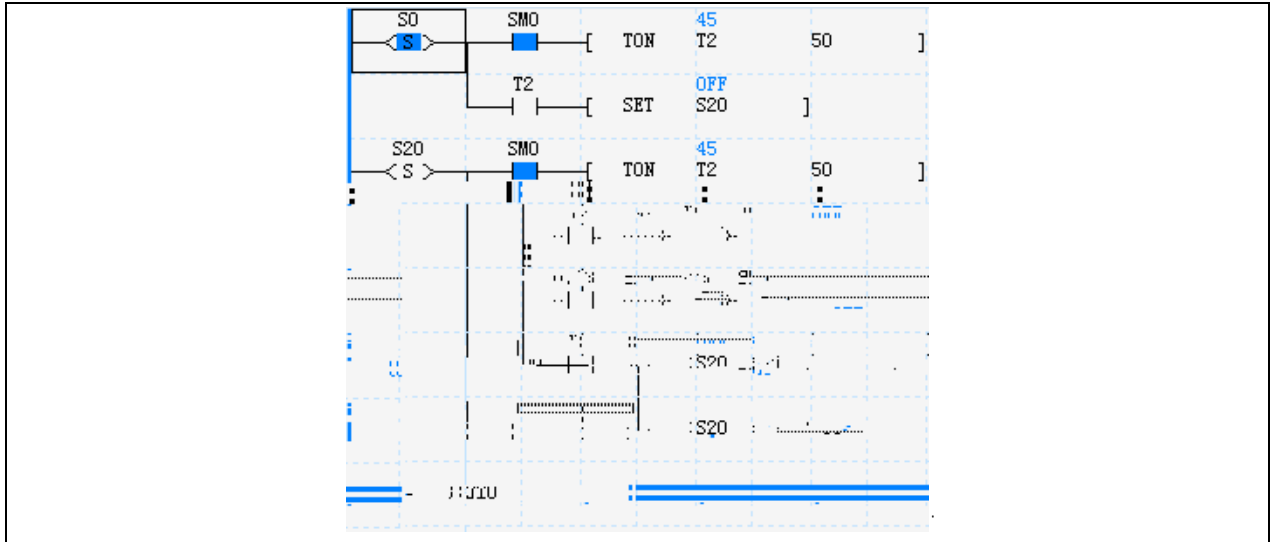
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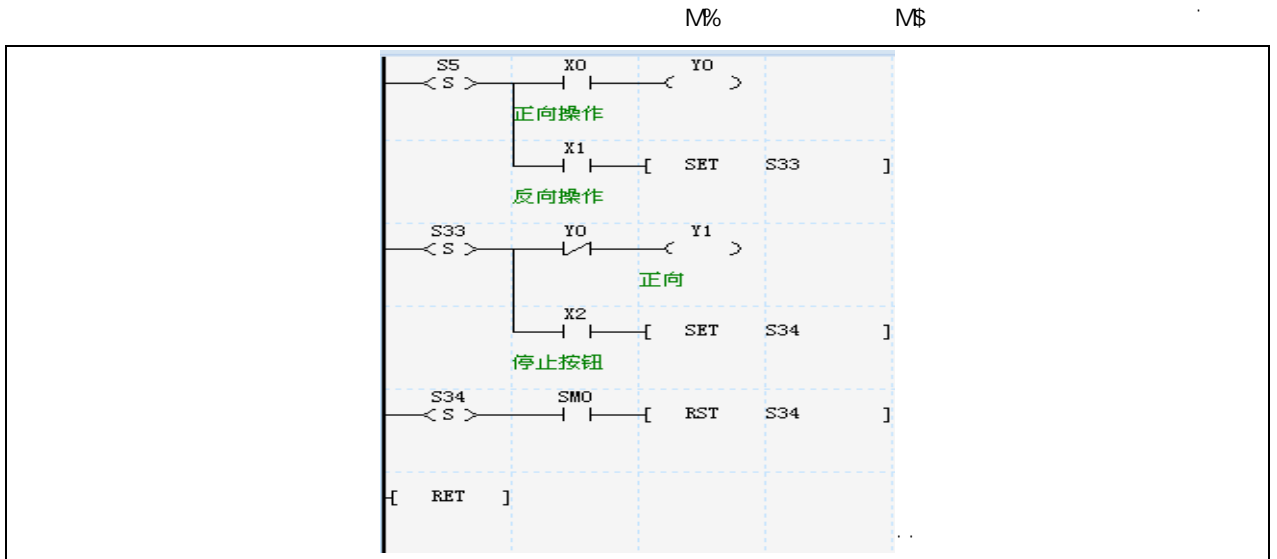
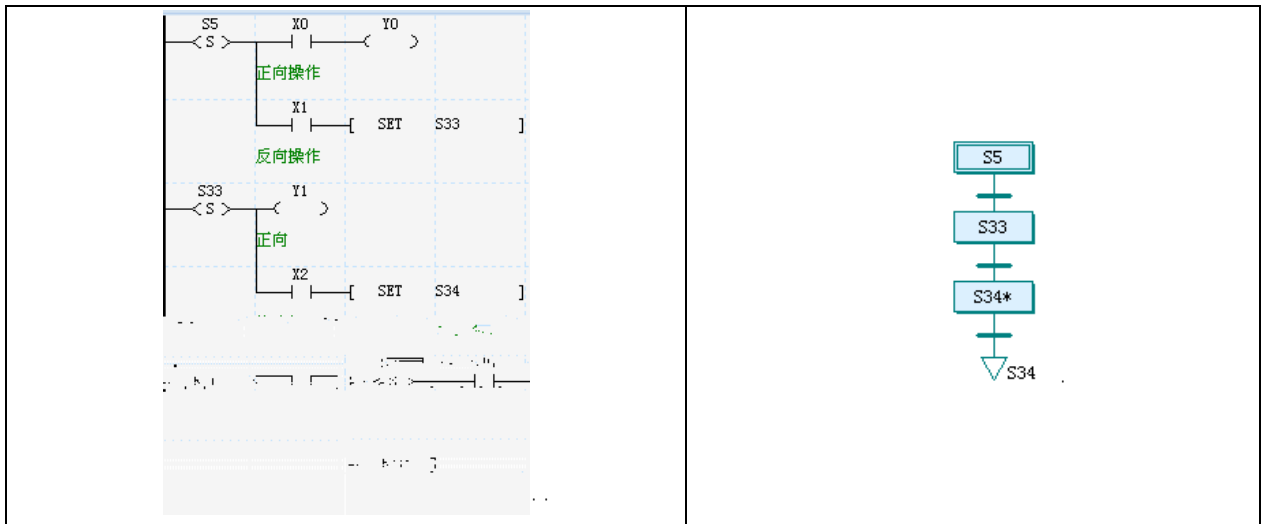
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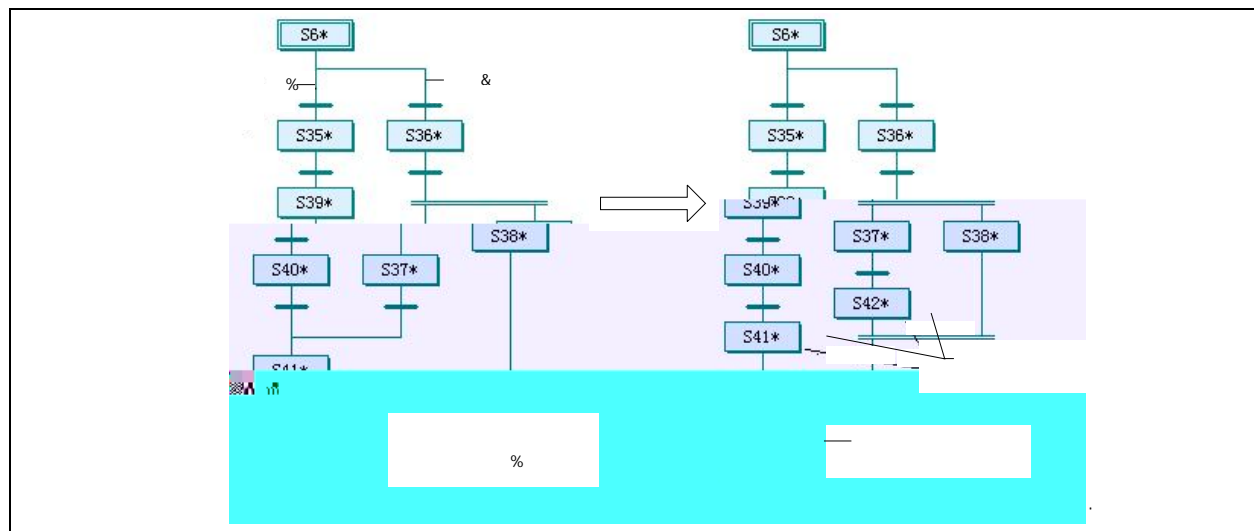
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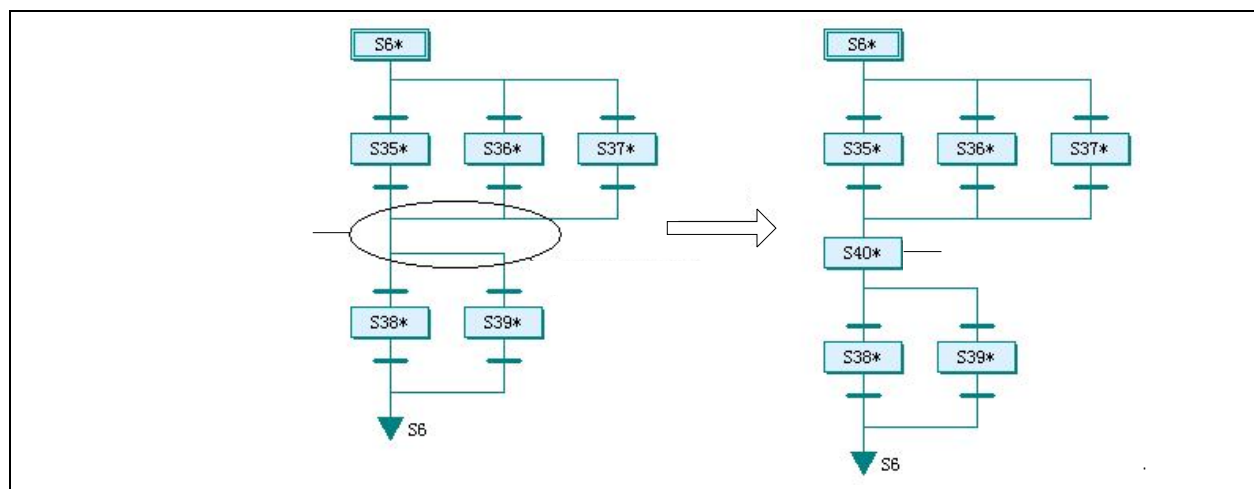
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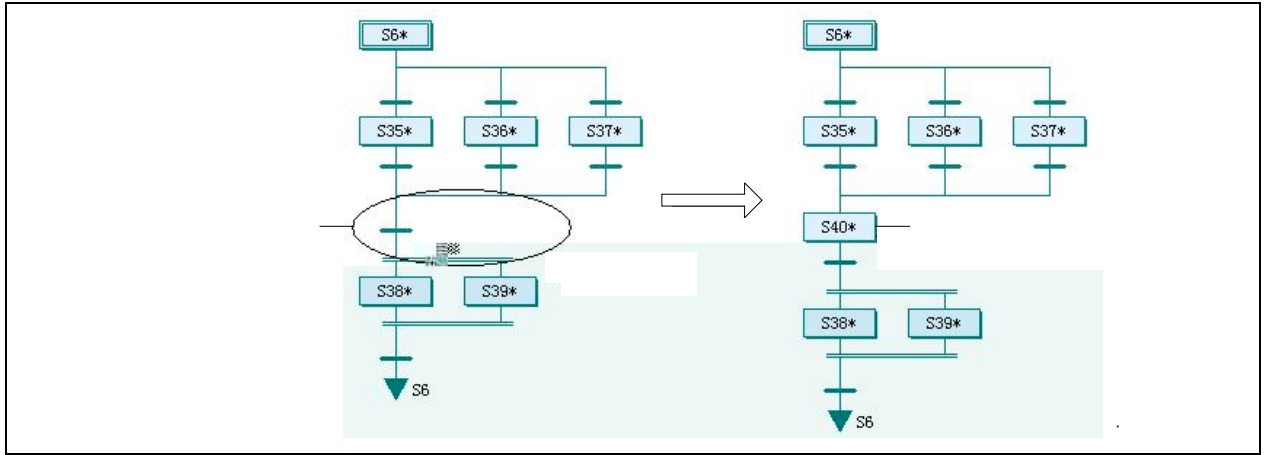
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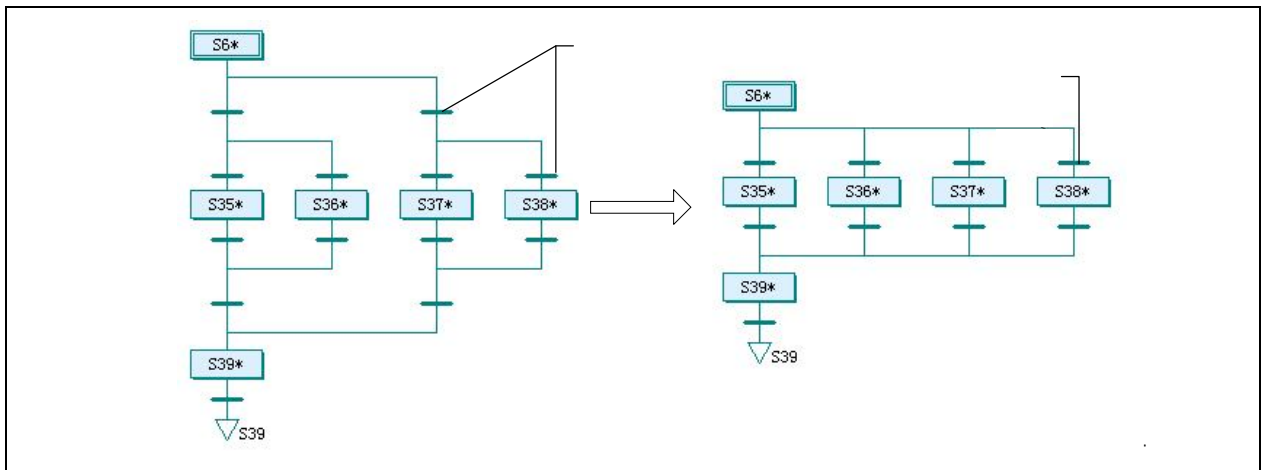
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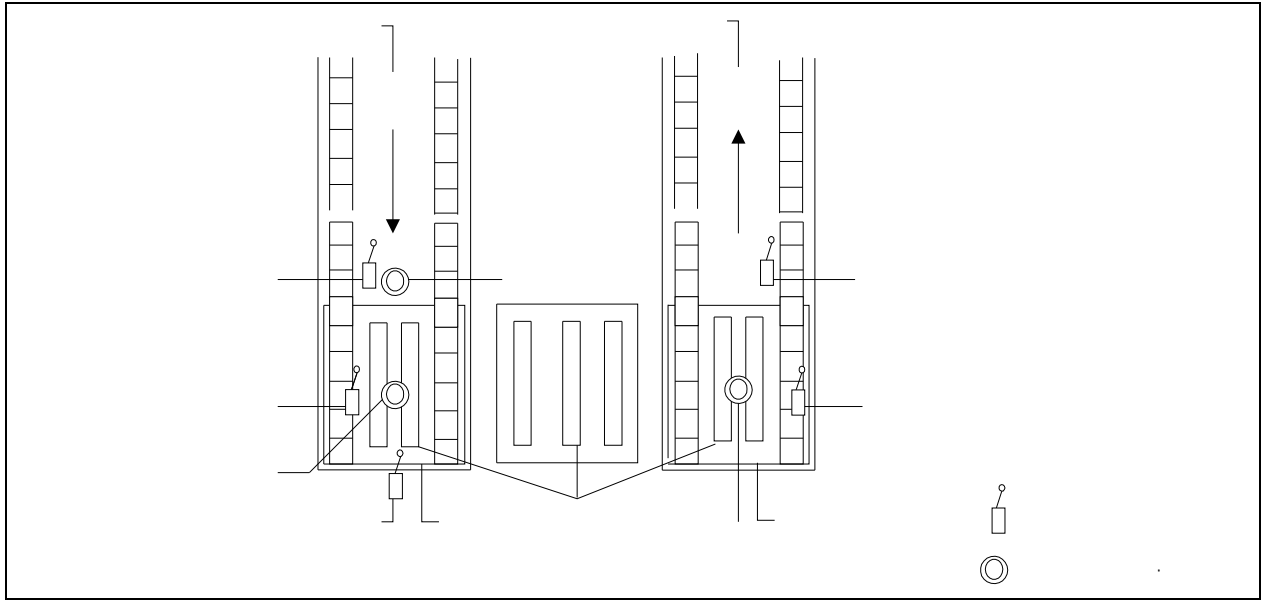


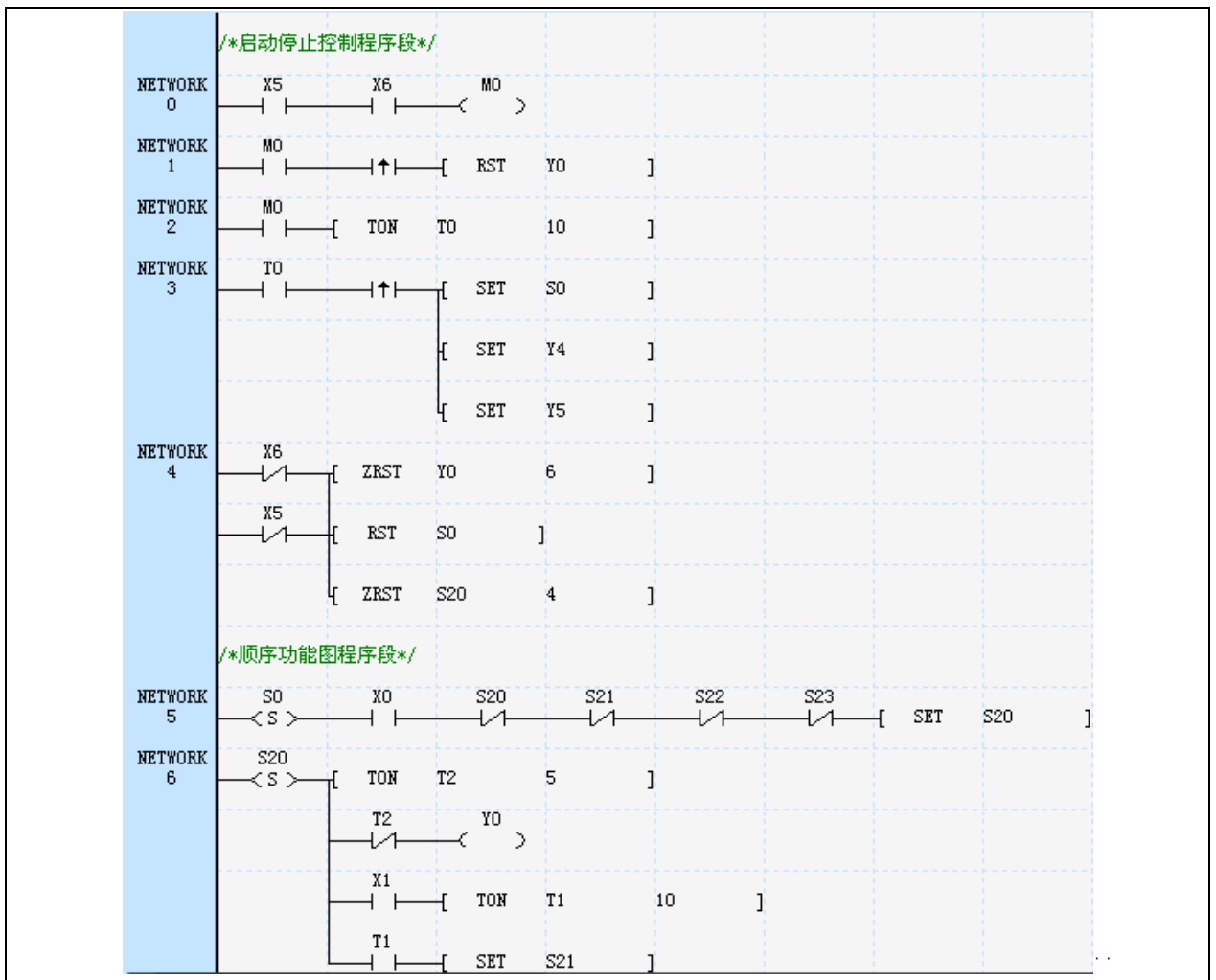
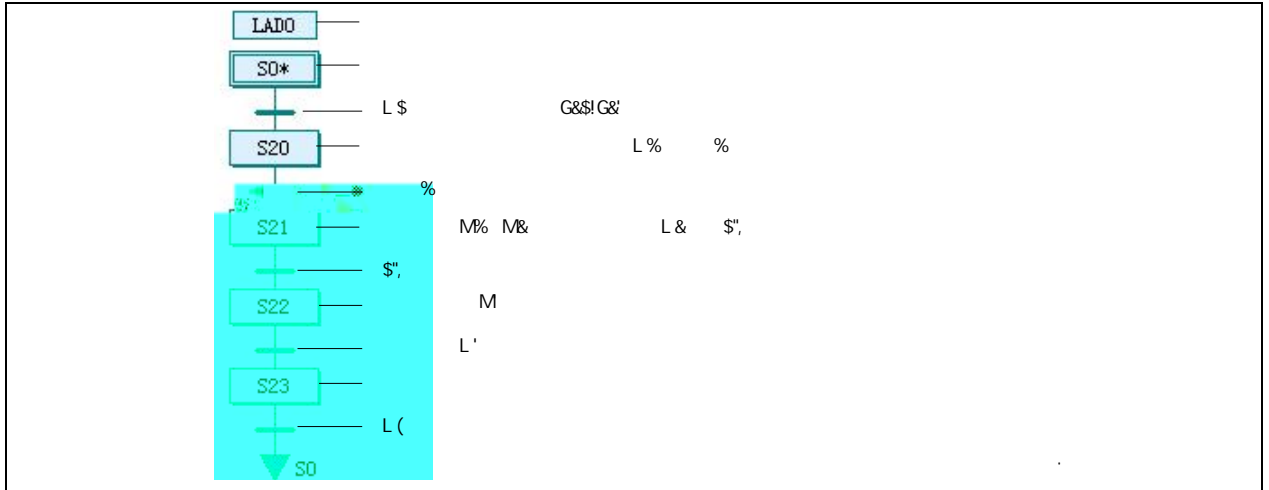


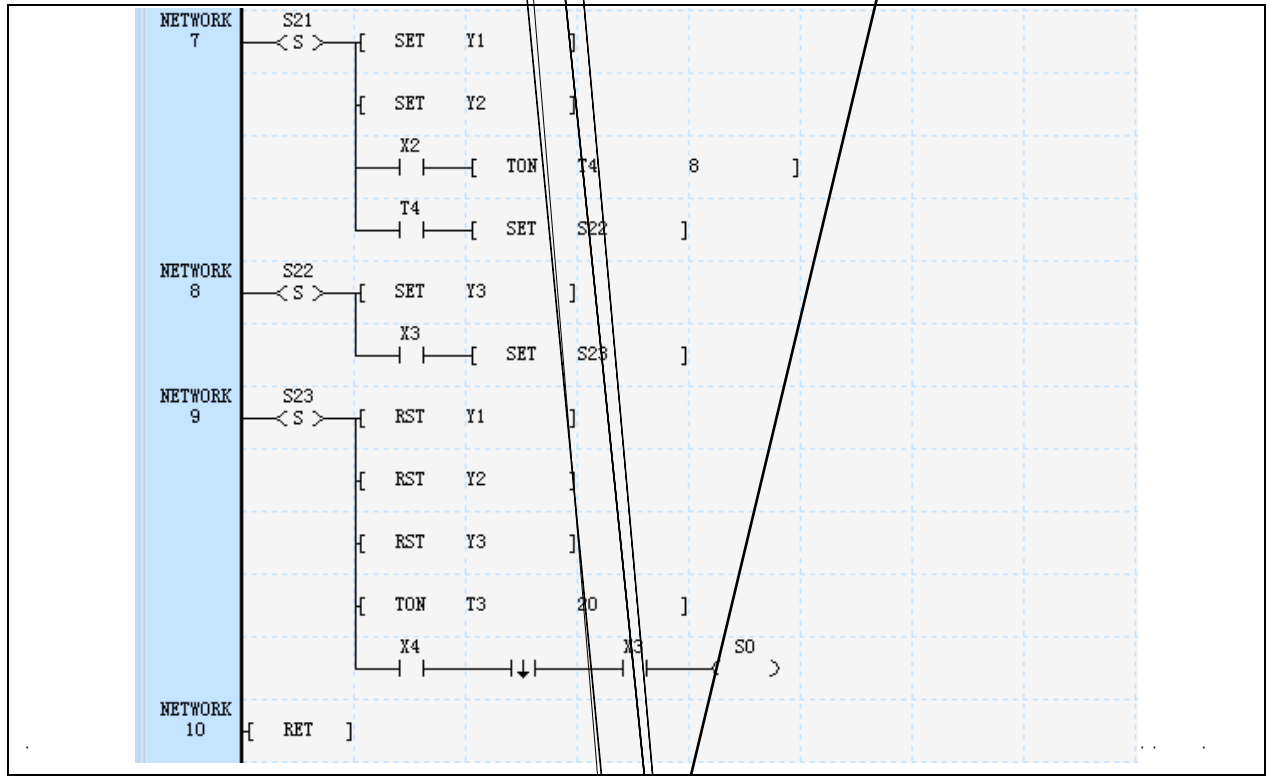
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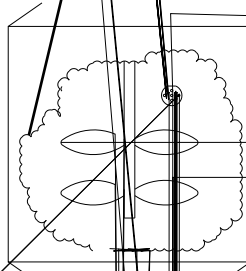






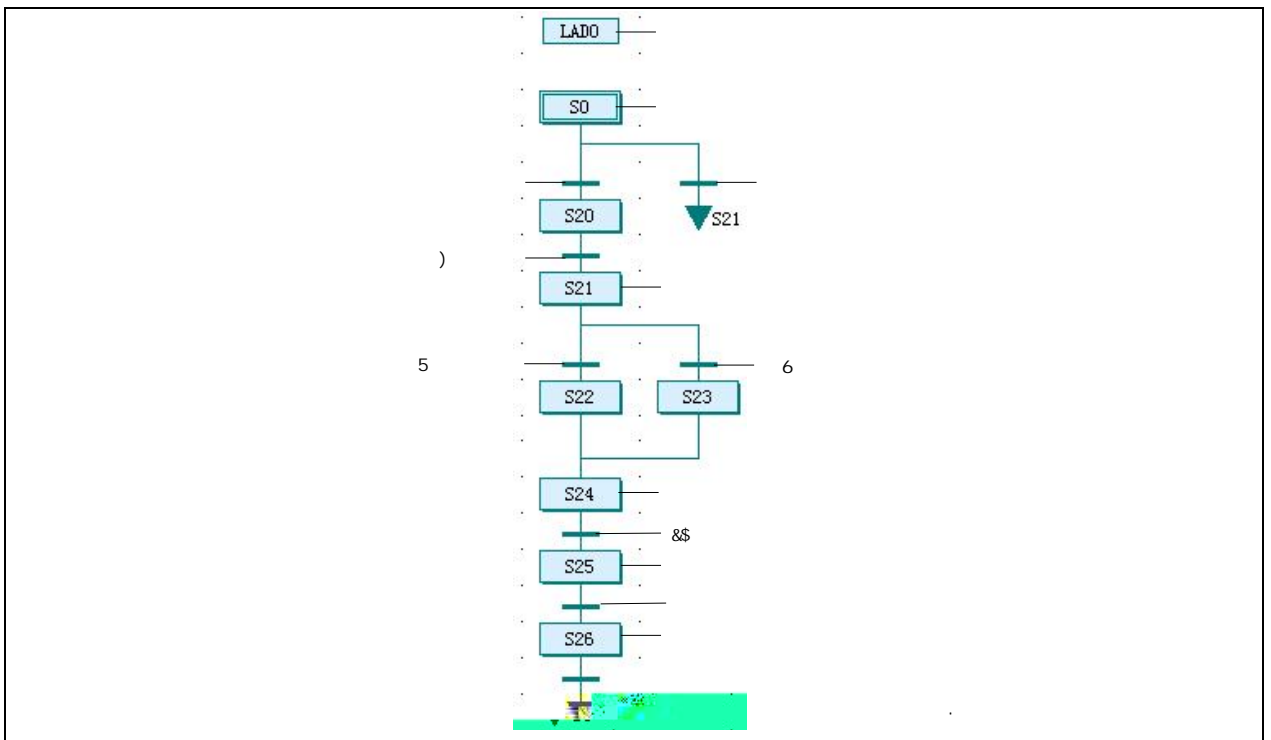
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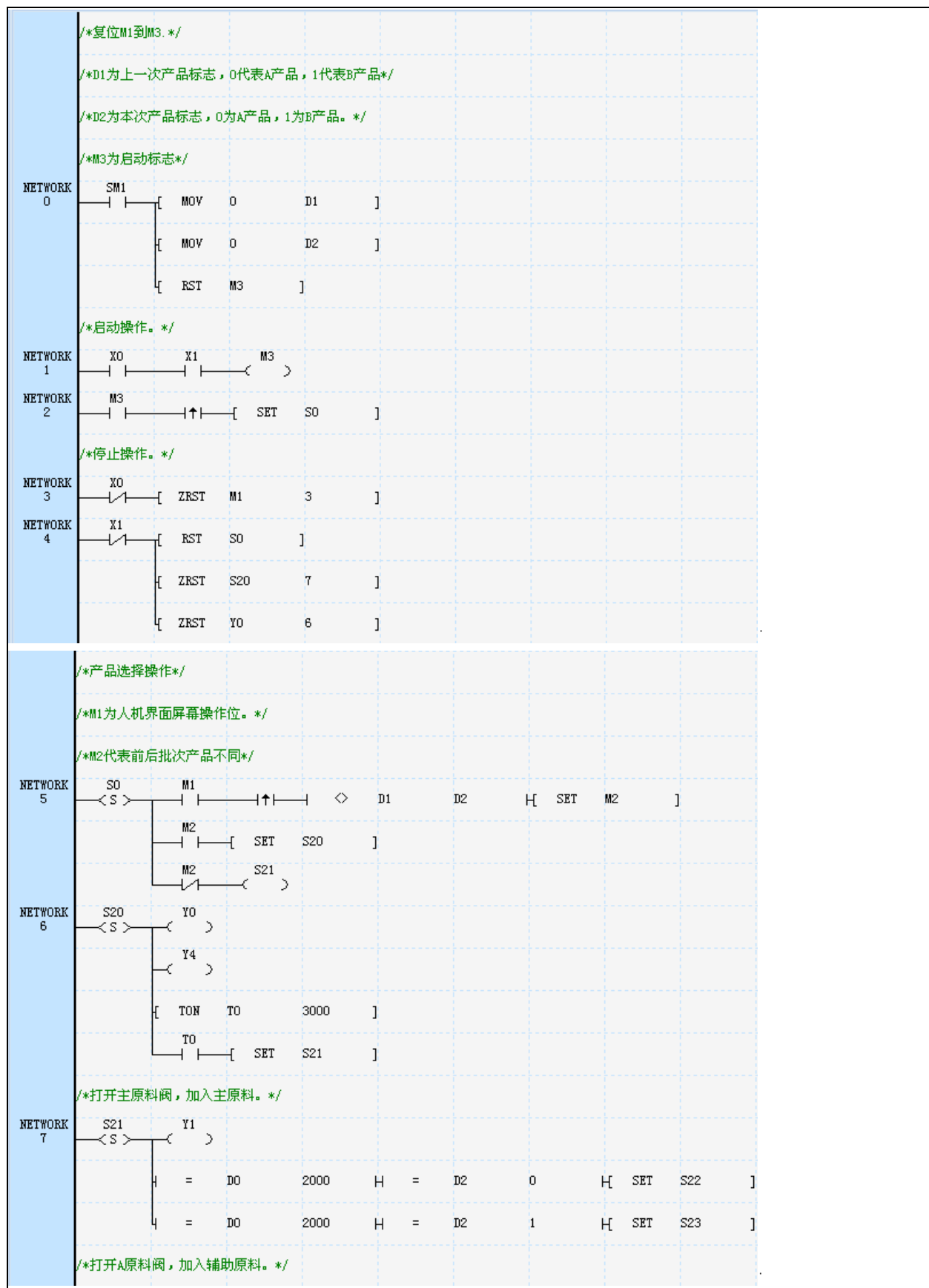
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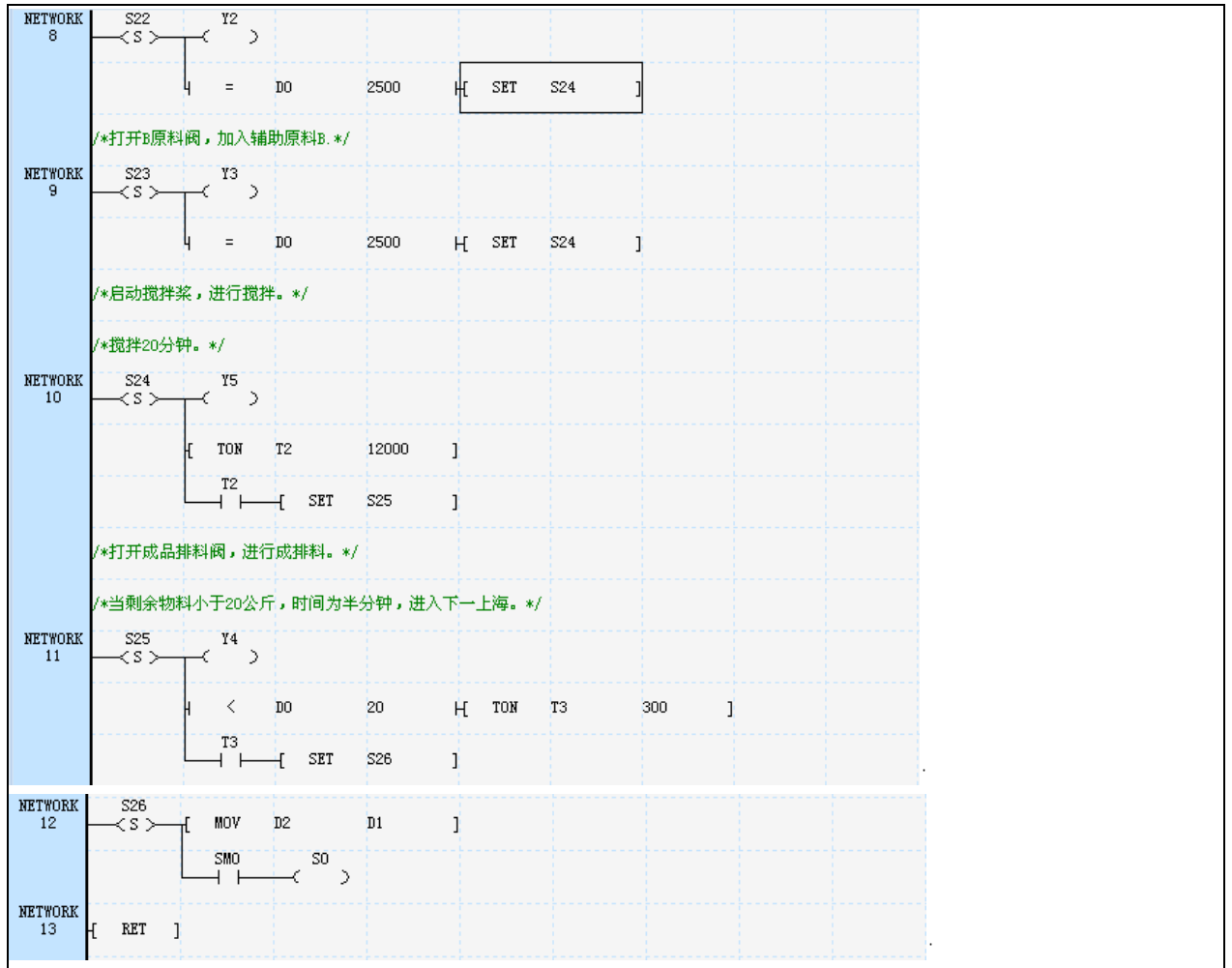


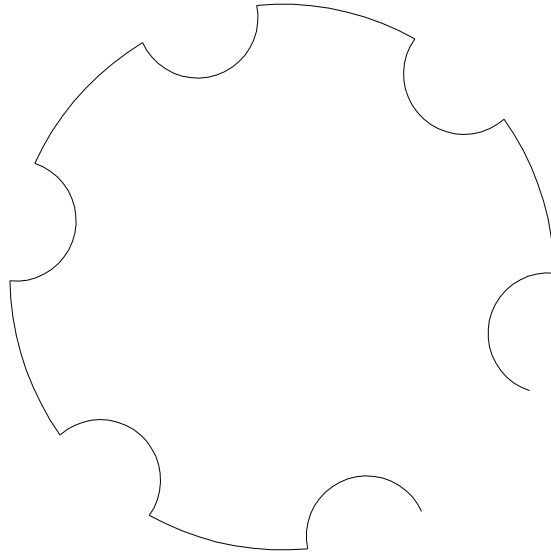
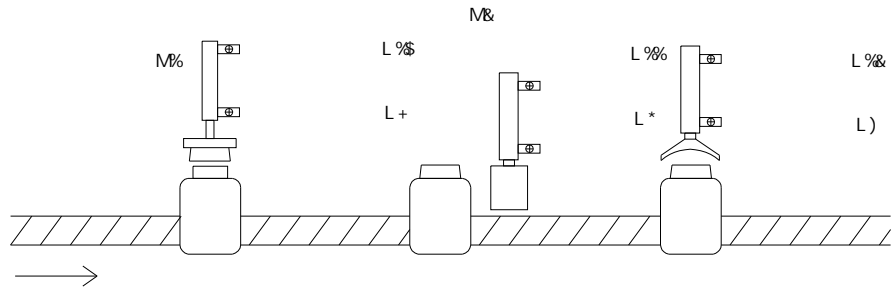
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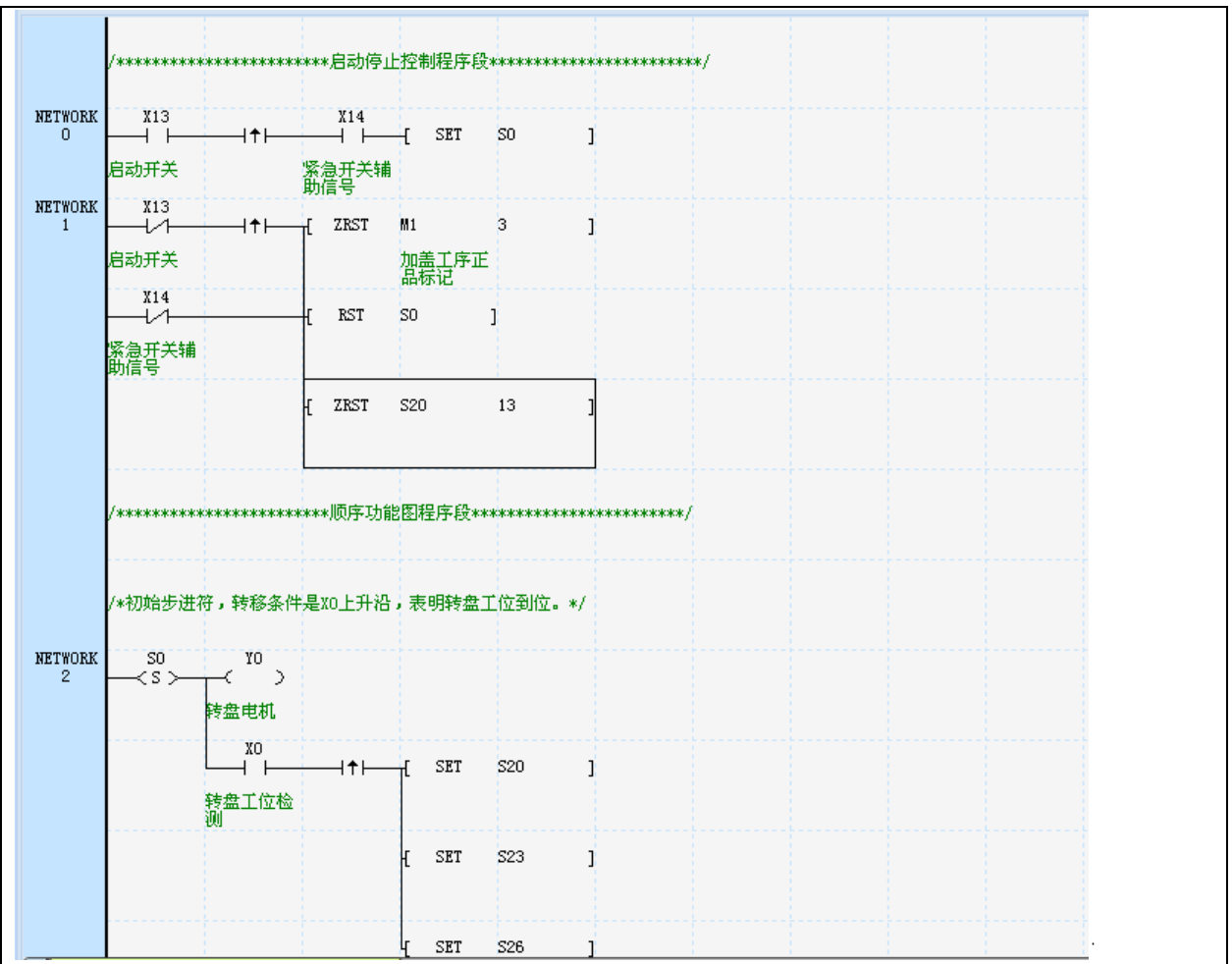
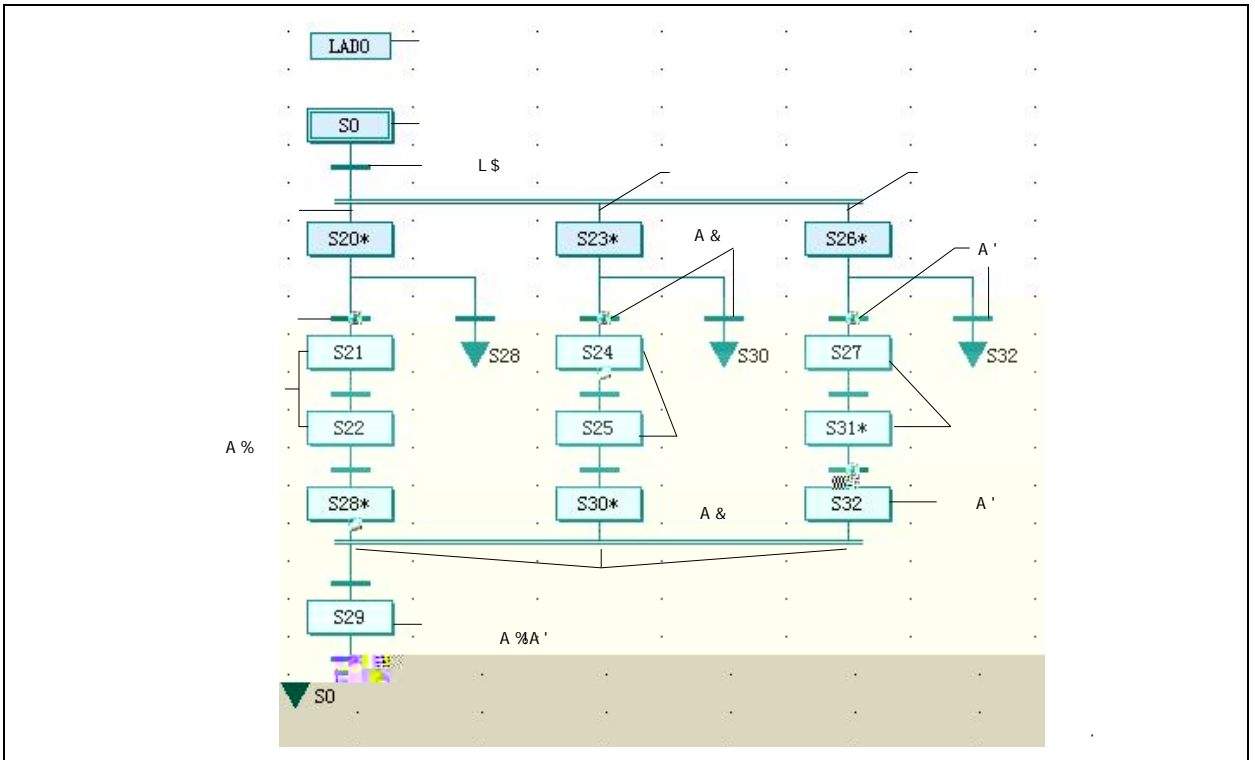
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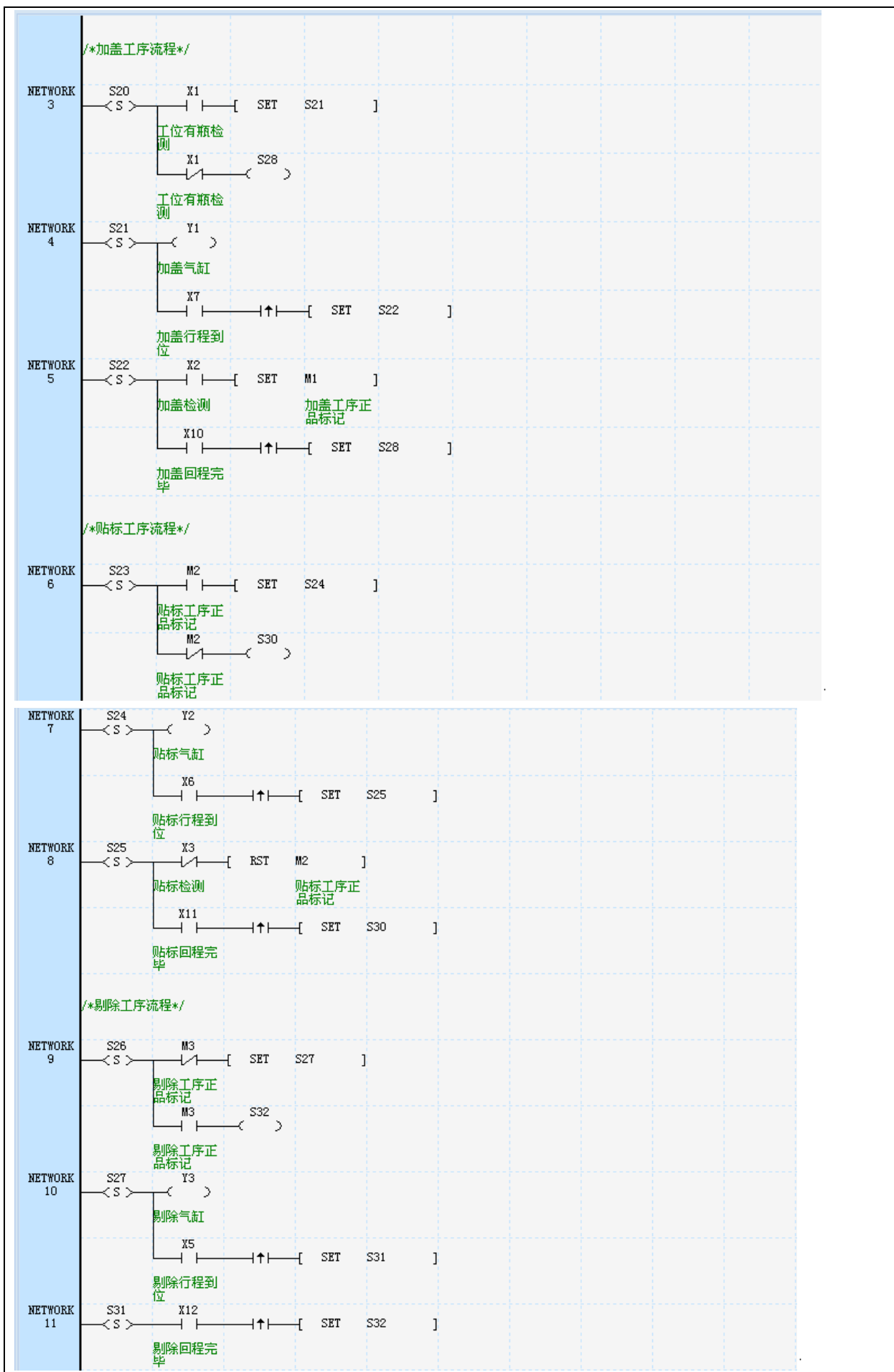


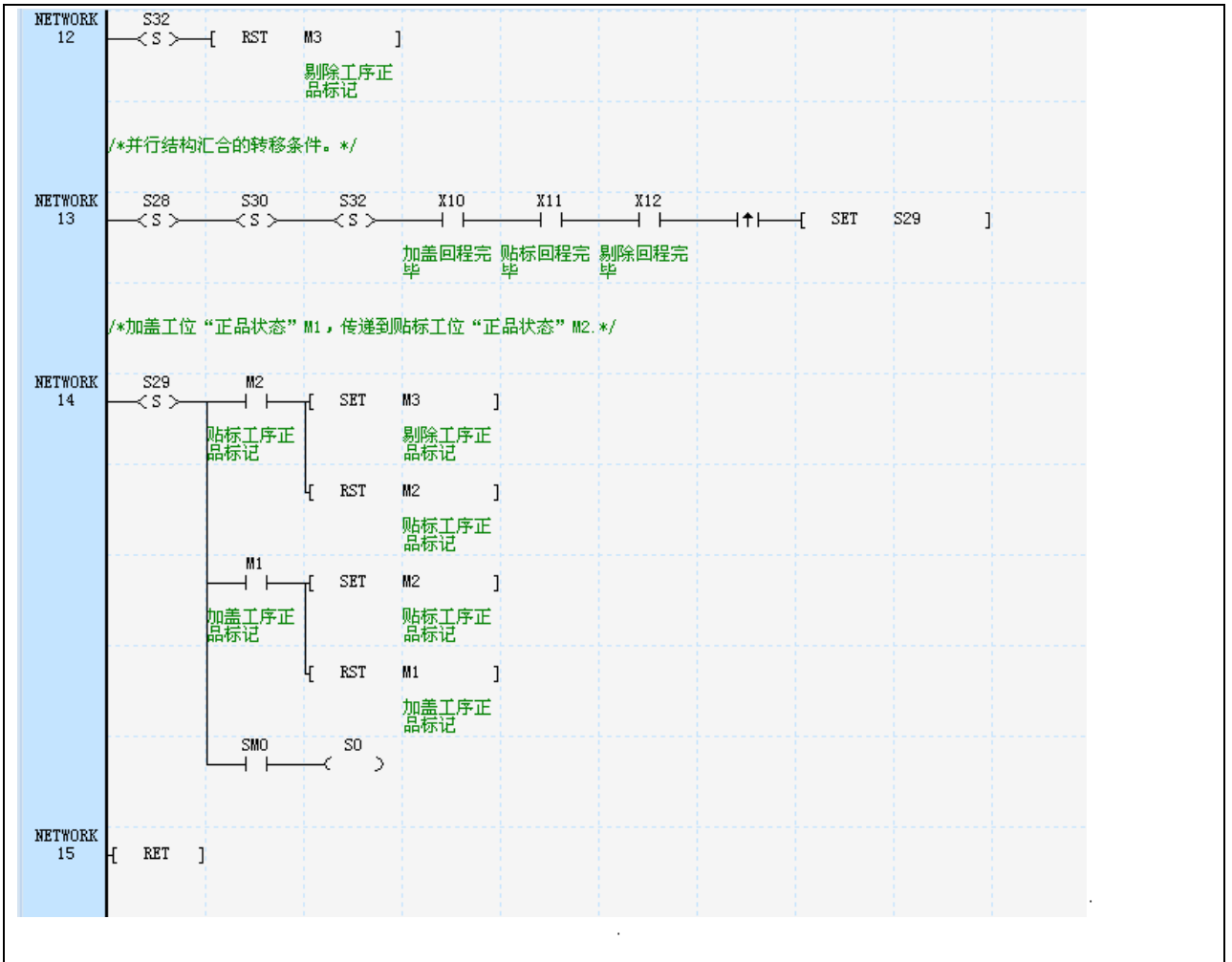












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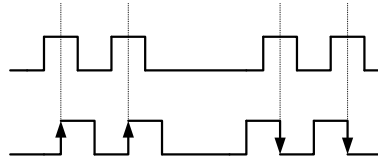
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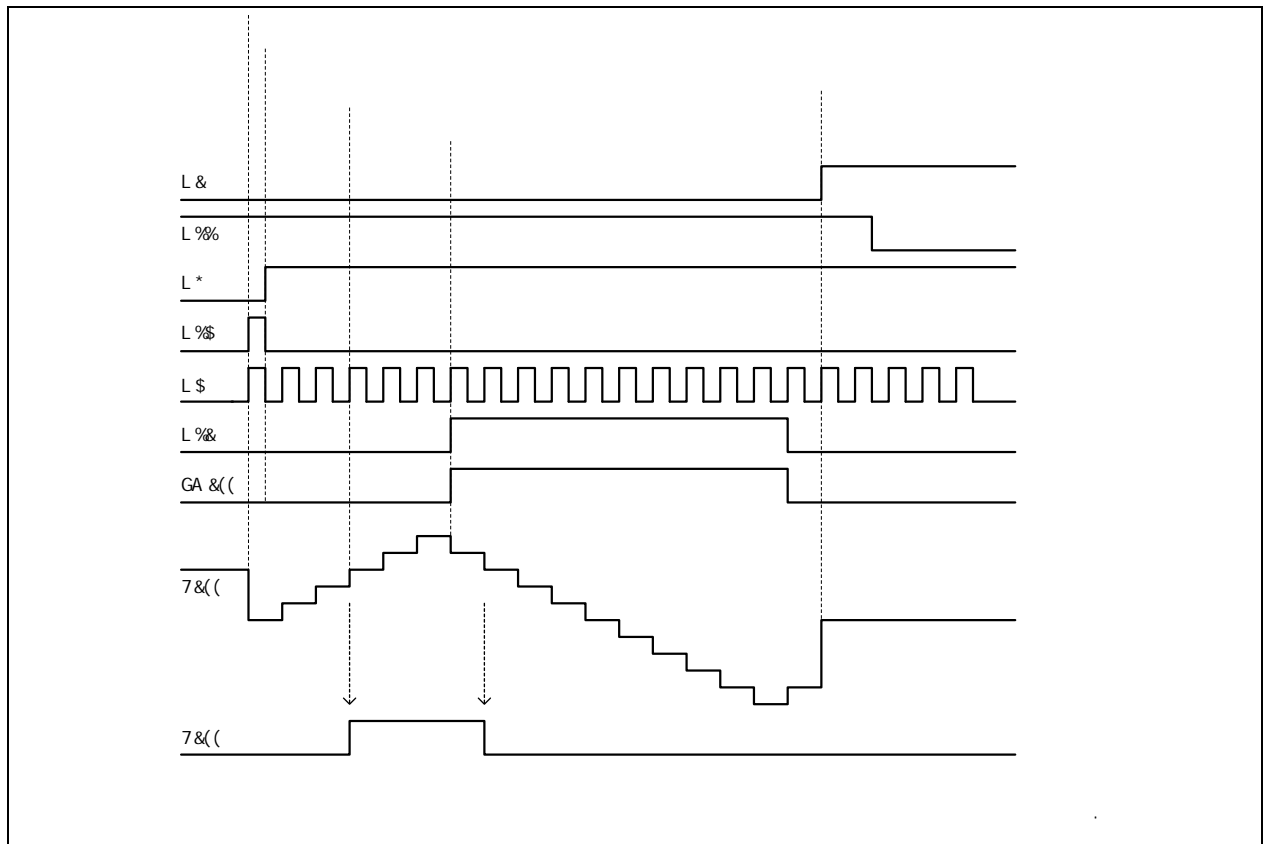
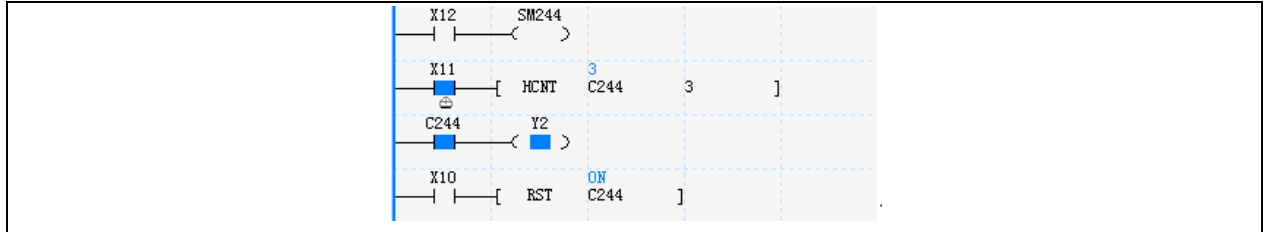


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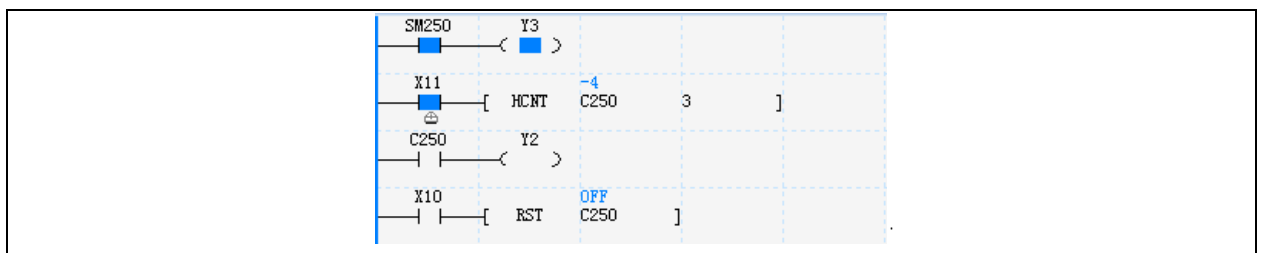
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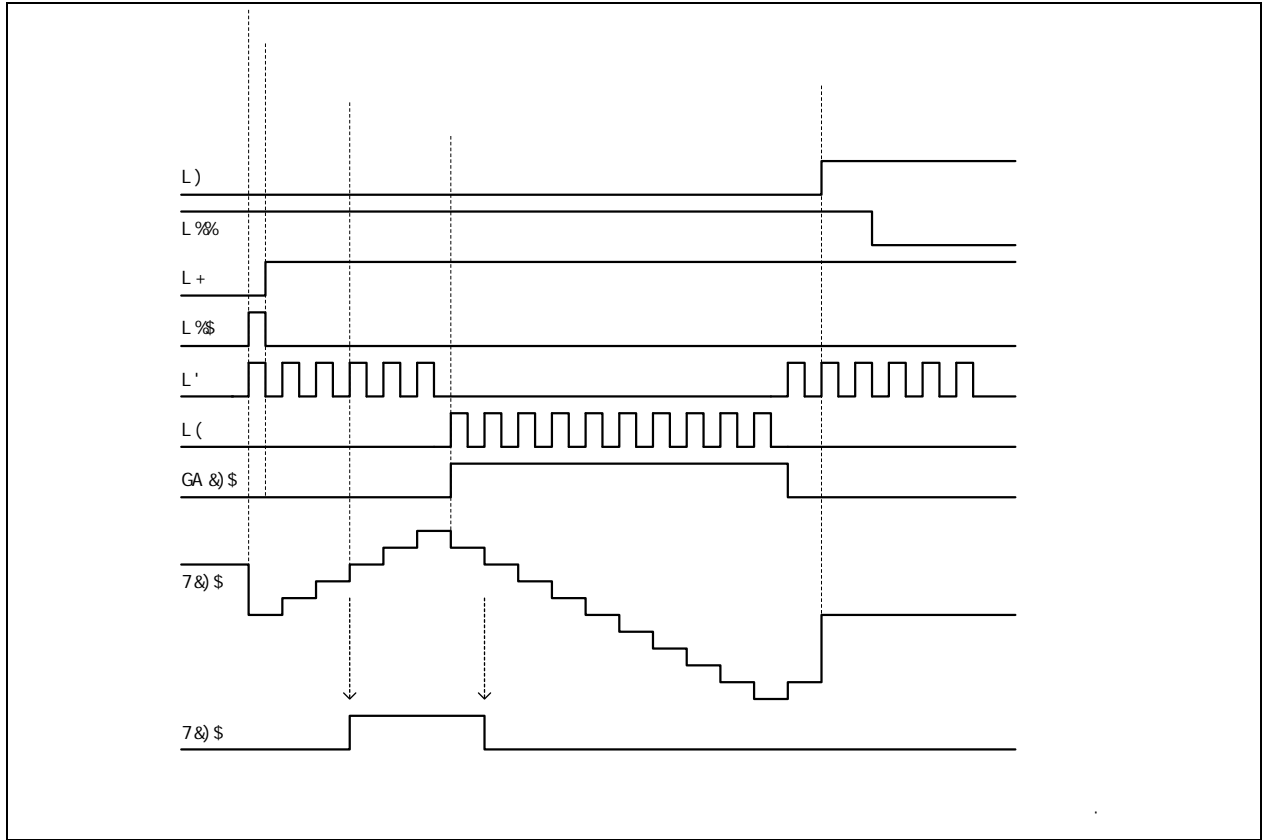
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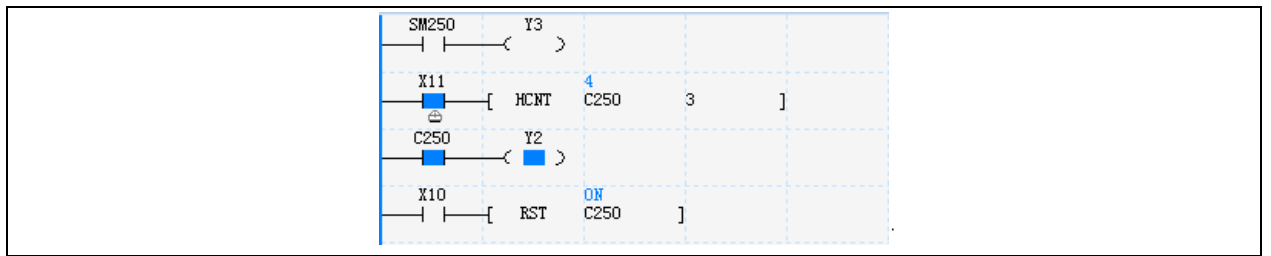
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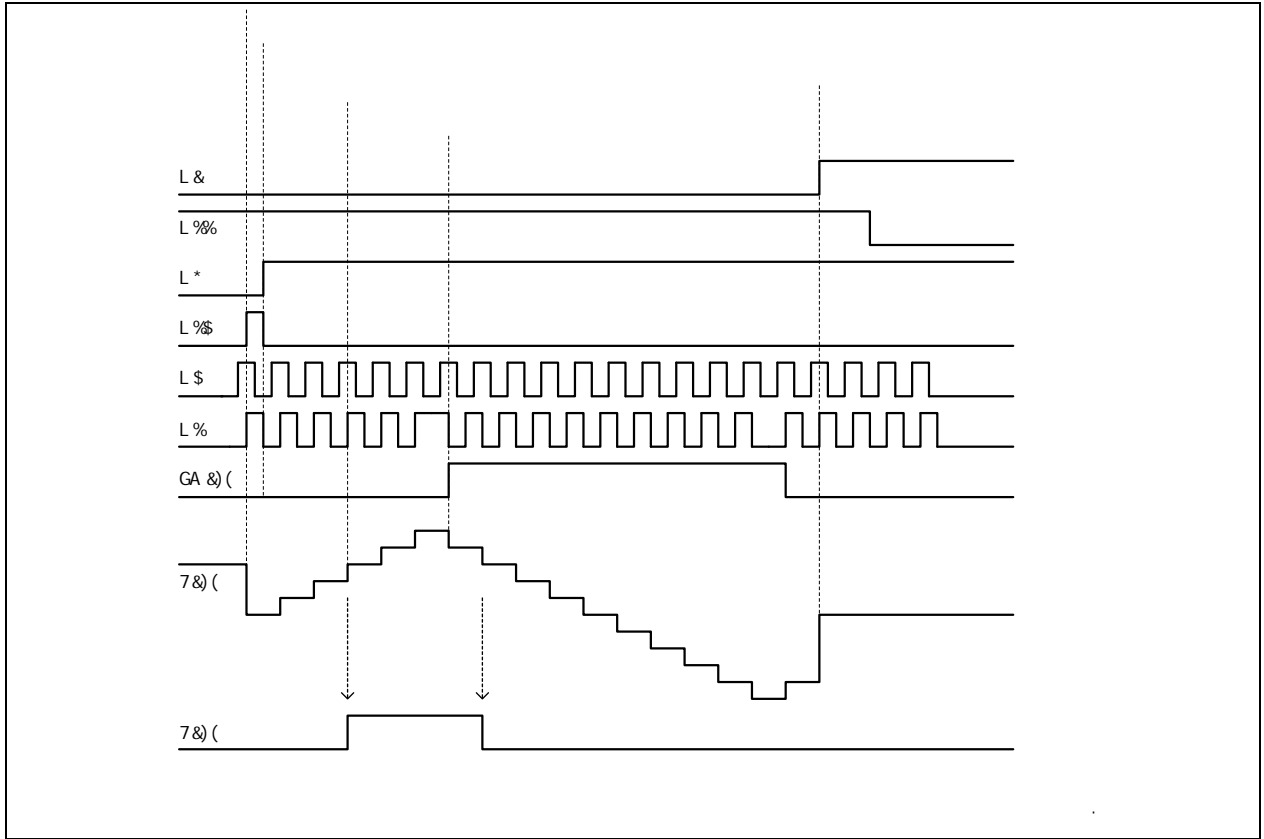




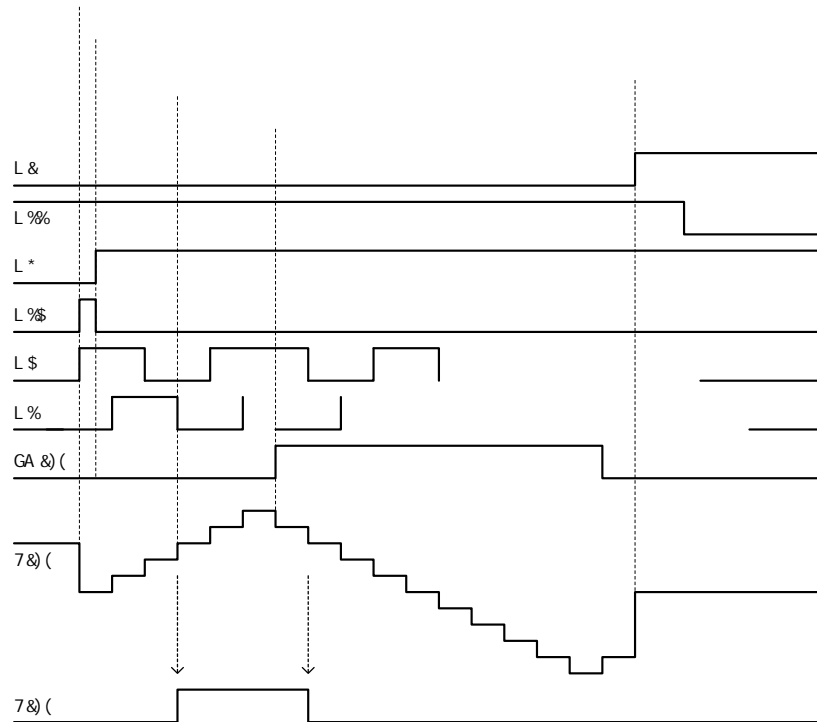
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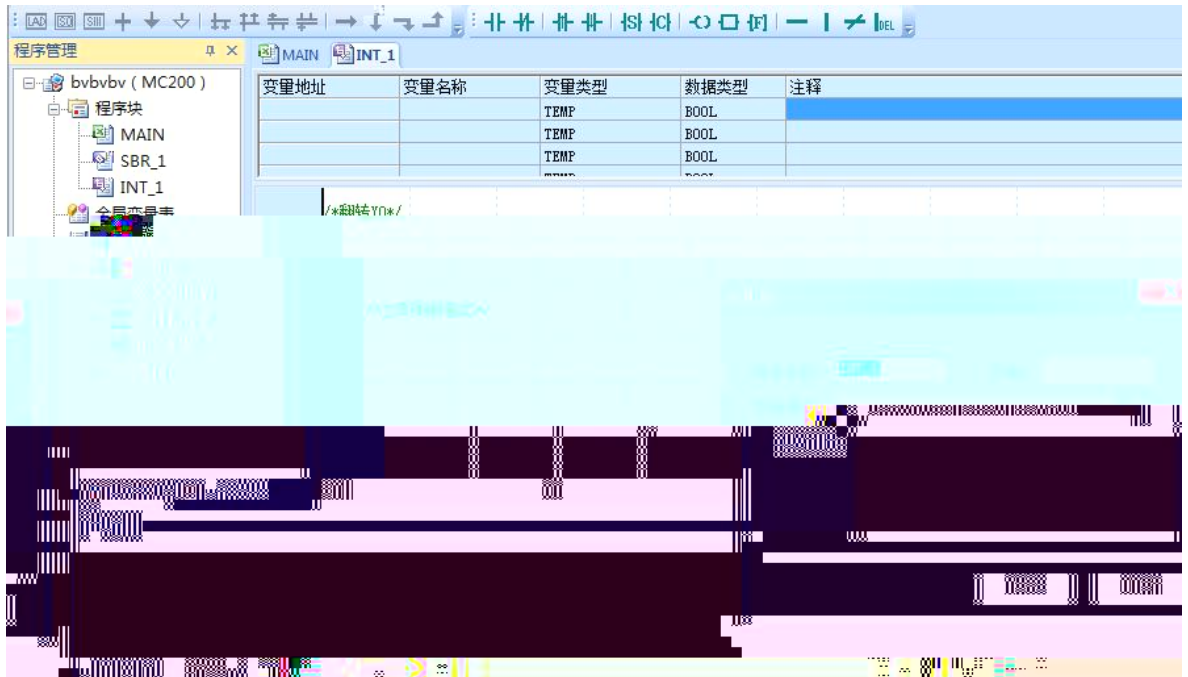
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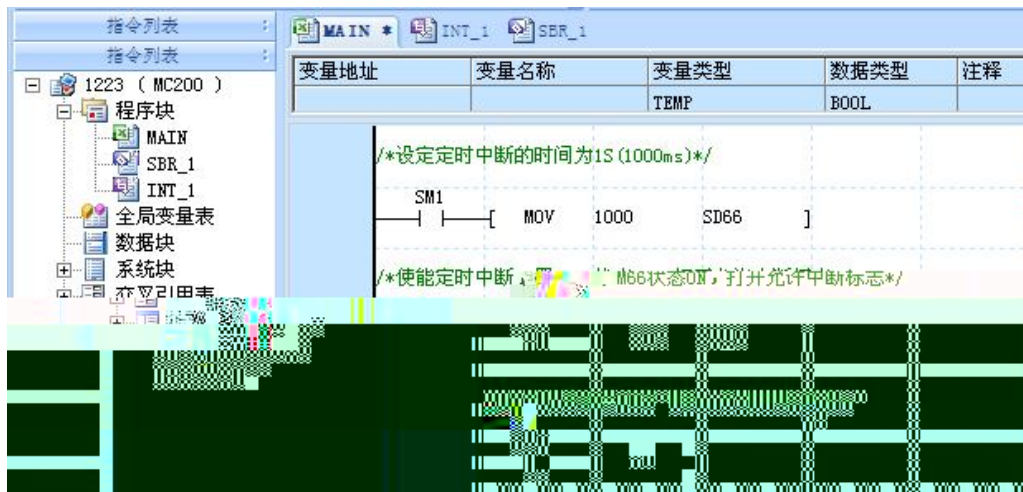
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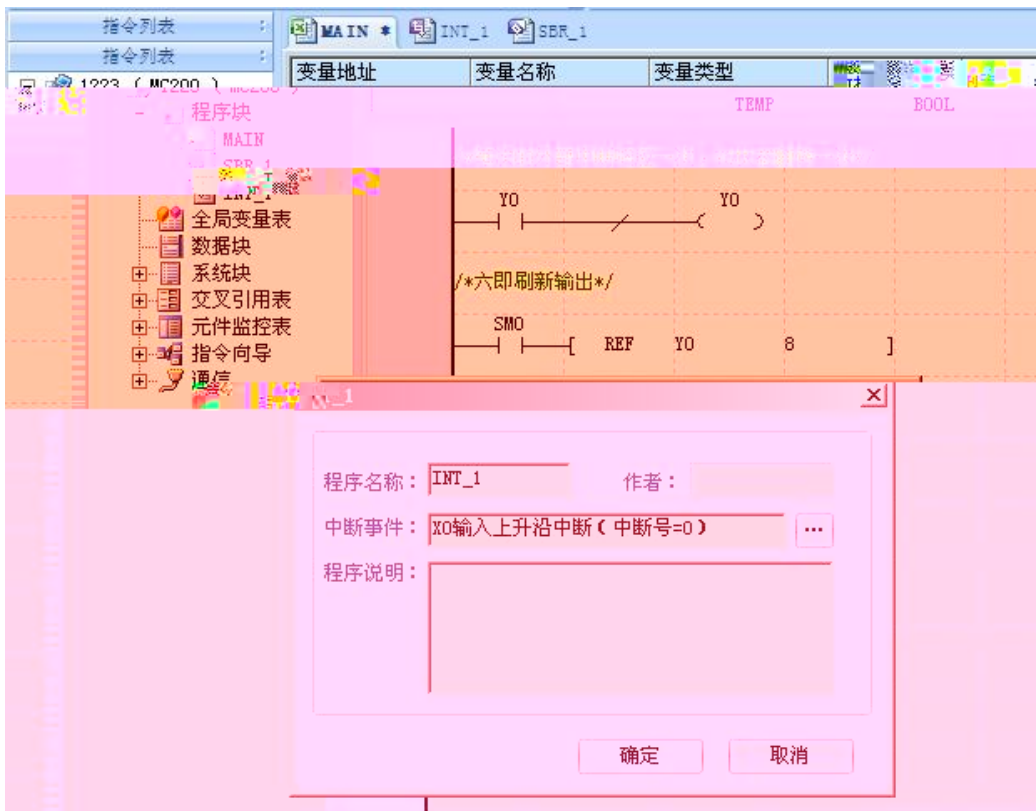
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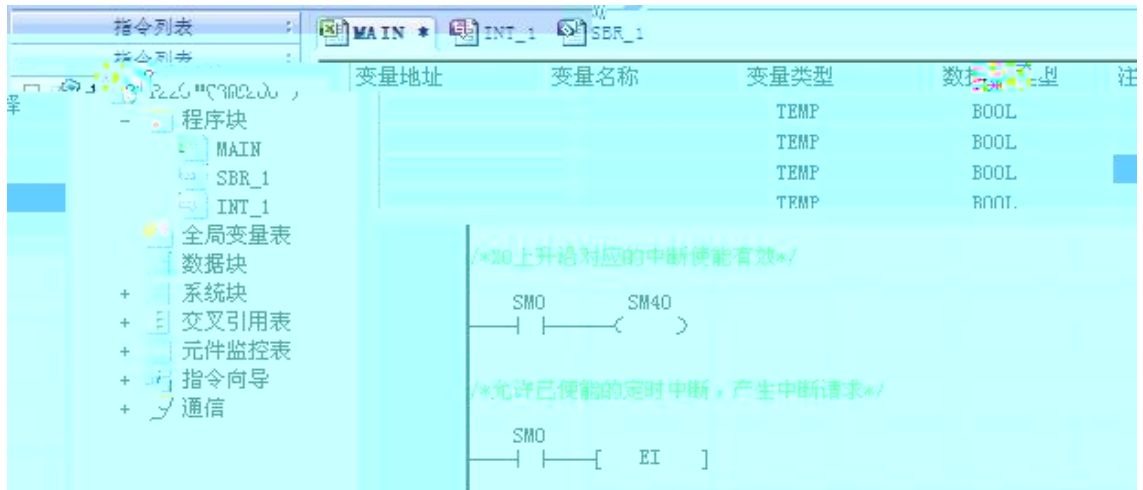
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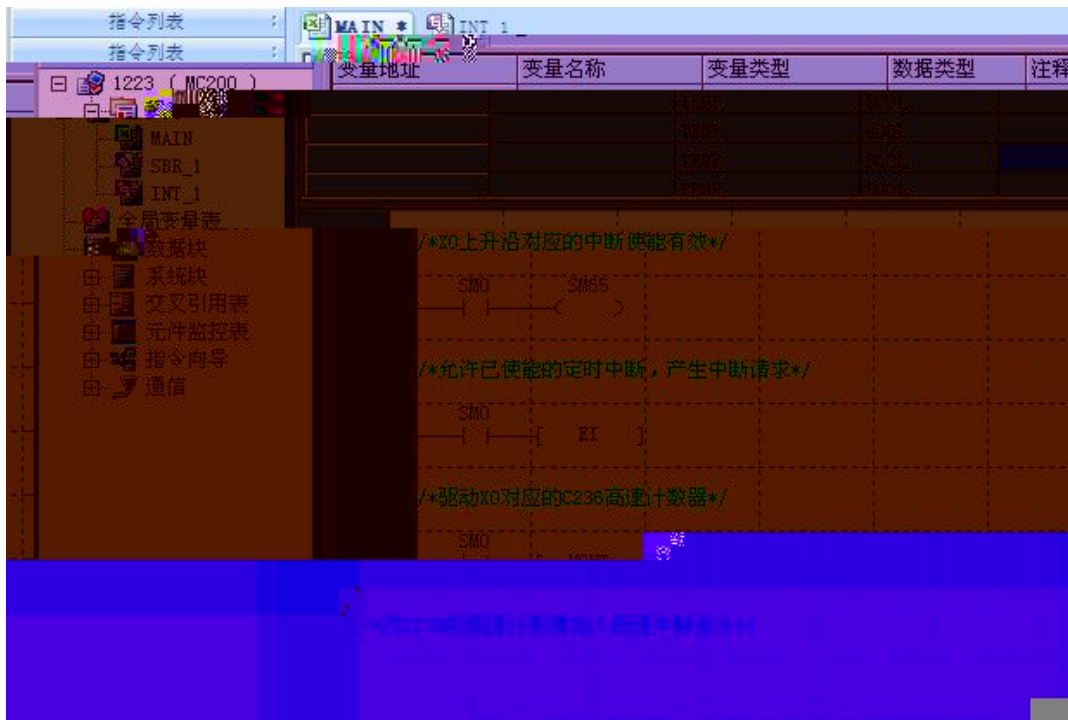


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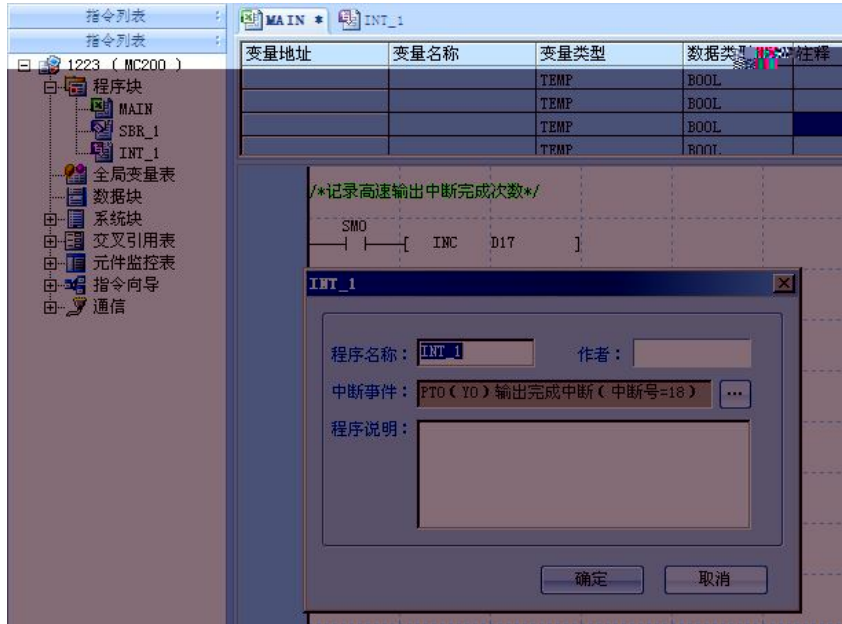


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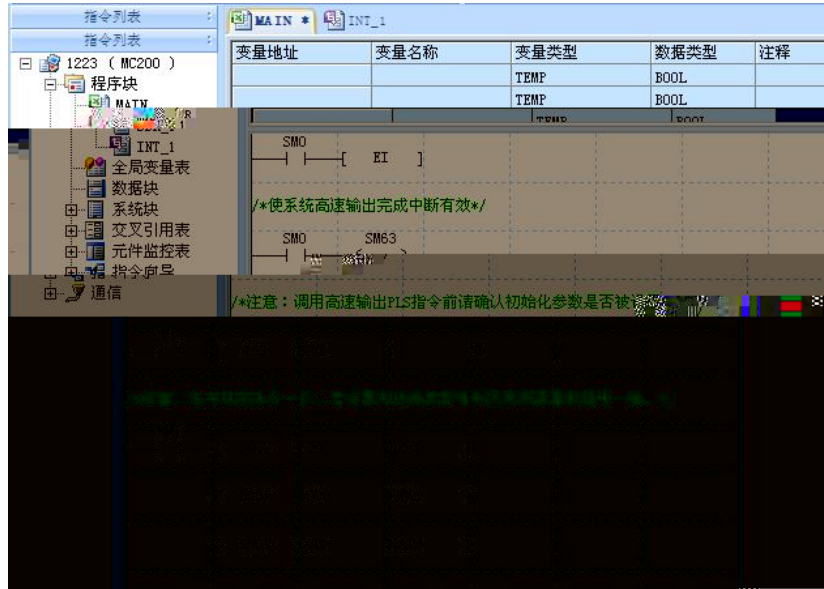
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The screenshot shows the SIMATIC Manager environment. On the left is a project tree for '1223 (MC200)' containing sub-projects like MAIN, COM1-SENOD, SBR_1, and SMO1-SENOD. The main window displays the SMO1-SENOD program with the following variable declaration table:

变量地址	变量名称	变量类型	数据类型	注释
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	

The ladder logic diagram contains the following instructions:

```

/*翻转Y3*/
Y3 —| |— / —> Y3

/*立即刷新*/
SM0 —| |— [ REF Y0 8 ]
    
```

A configuration dialog box titled 'SMO1-SENOD' is open, showing the following fields:

- 程序名称: SMO1-SENOD
- 作者: []
- 中断事件: COM1的帧发送中断 (中断号=36)
- 程序说明: []

Buttons for '确定' (OK) and '取消' (Cancel) are visible at the bottom of the dialog.

This screenshot shows the same SIMATIC Manager environment. The variable declaration table is as follows:

变量名称	变量类型	数据类型	注释
	TEMP	BOOL	
	TEMP	BOOL	
	TEMP	BOOL	
	TEMP	BOOL	

The ladder logic diagram contains the following instructions:

```

/*使系统中断使能有效*/
SM0 —| |— [ EI ]

/*使XOM1发送帧中断有效*/
SM1 —| |— [ SET SM54 ]
    
```

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%\$"	&-
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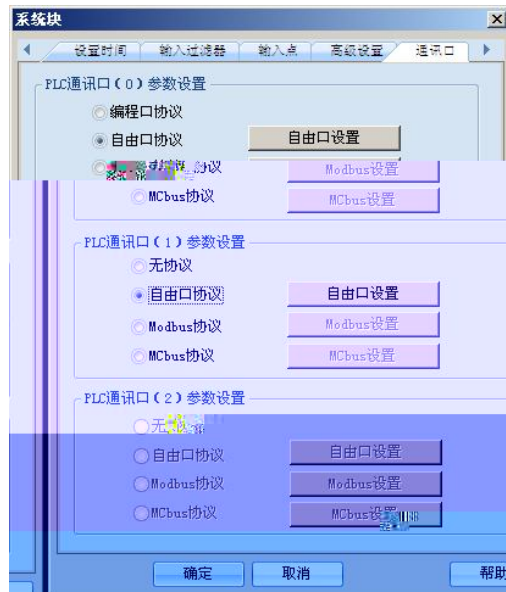
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	%	FG&' & FG(,)	A cXVI g A 7VI g
A 7& \$	\$	FG&' &	A cXVI g A 7VI g
	%	FG(,)	A cXVI g A 7VI g
	&	FG(,)	A cXVI g A 7VI g

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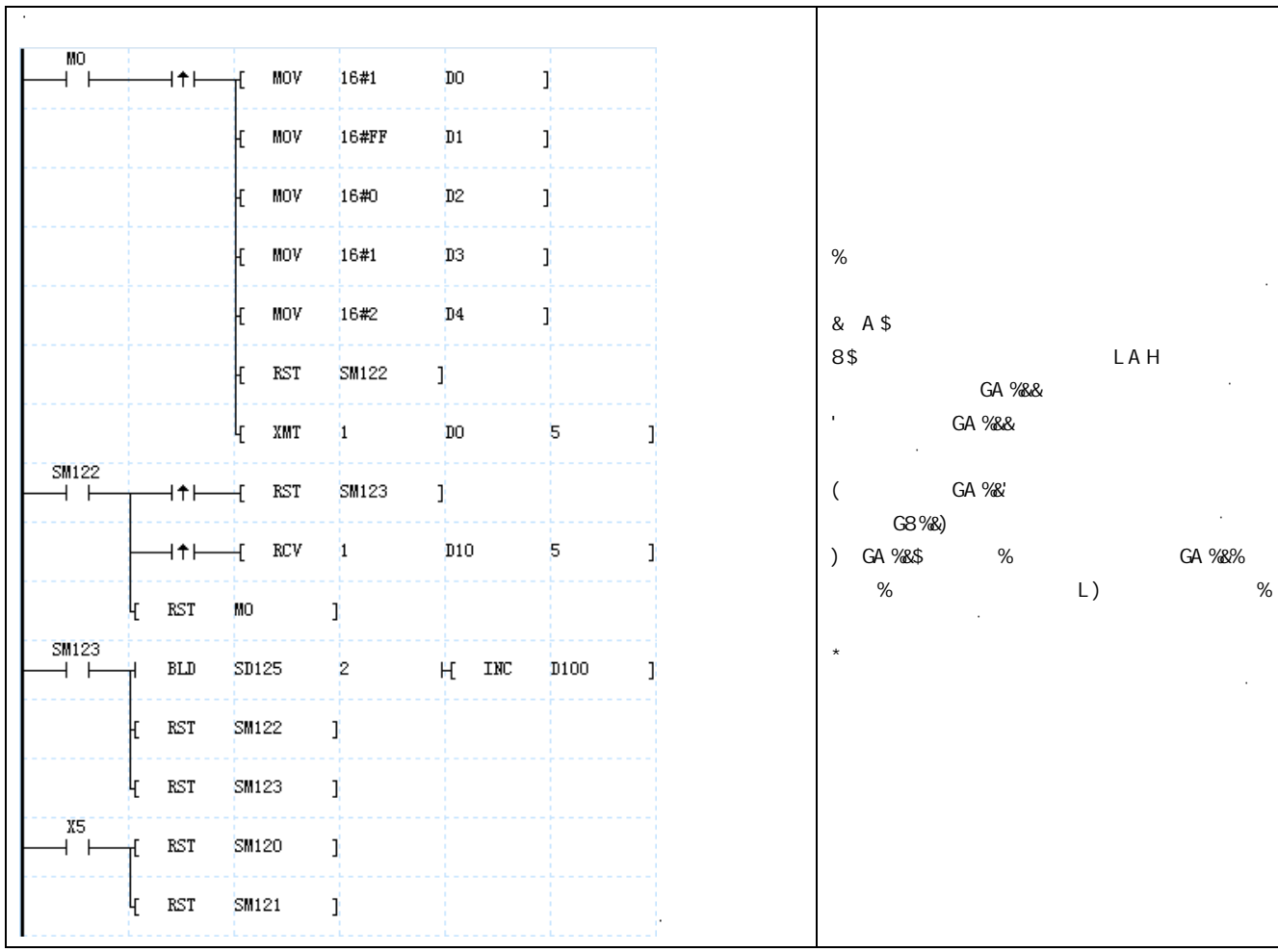
5G7=

D@7 FI B LAH F7J



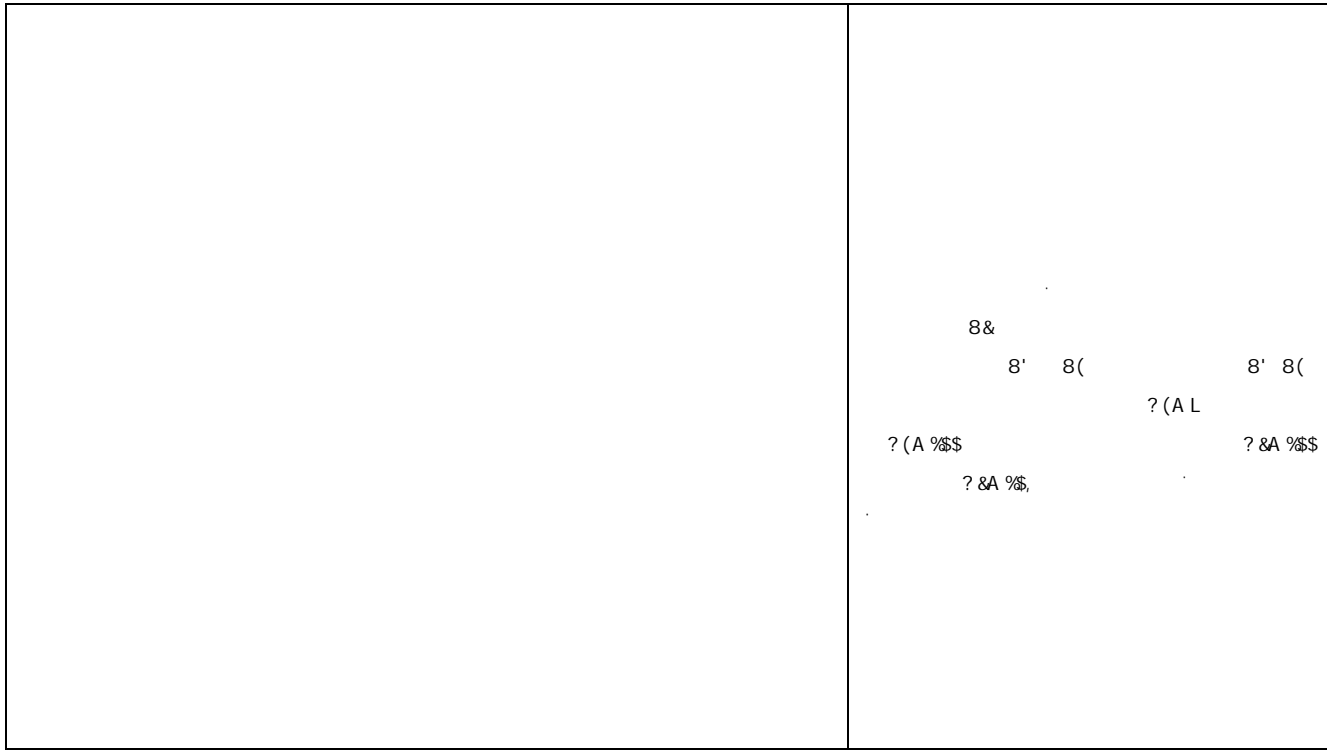


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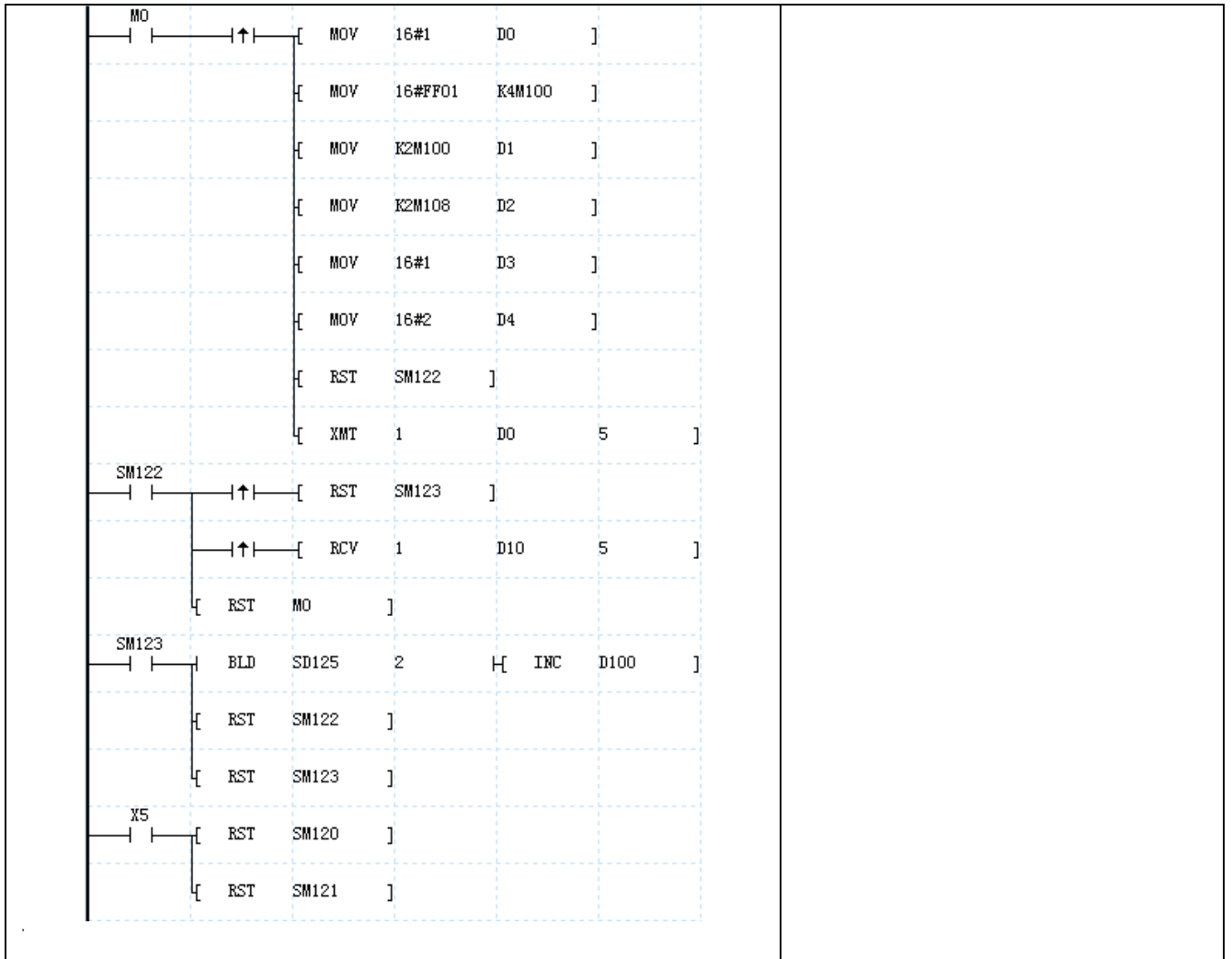


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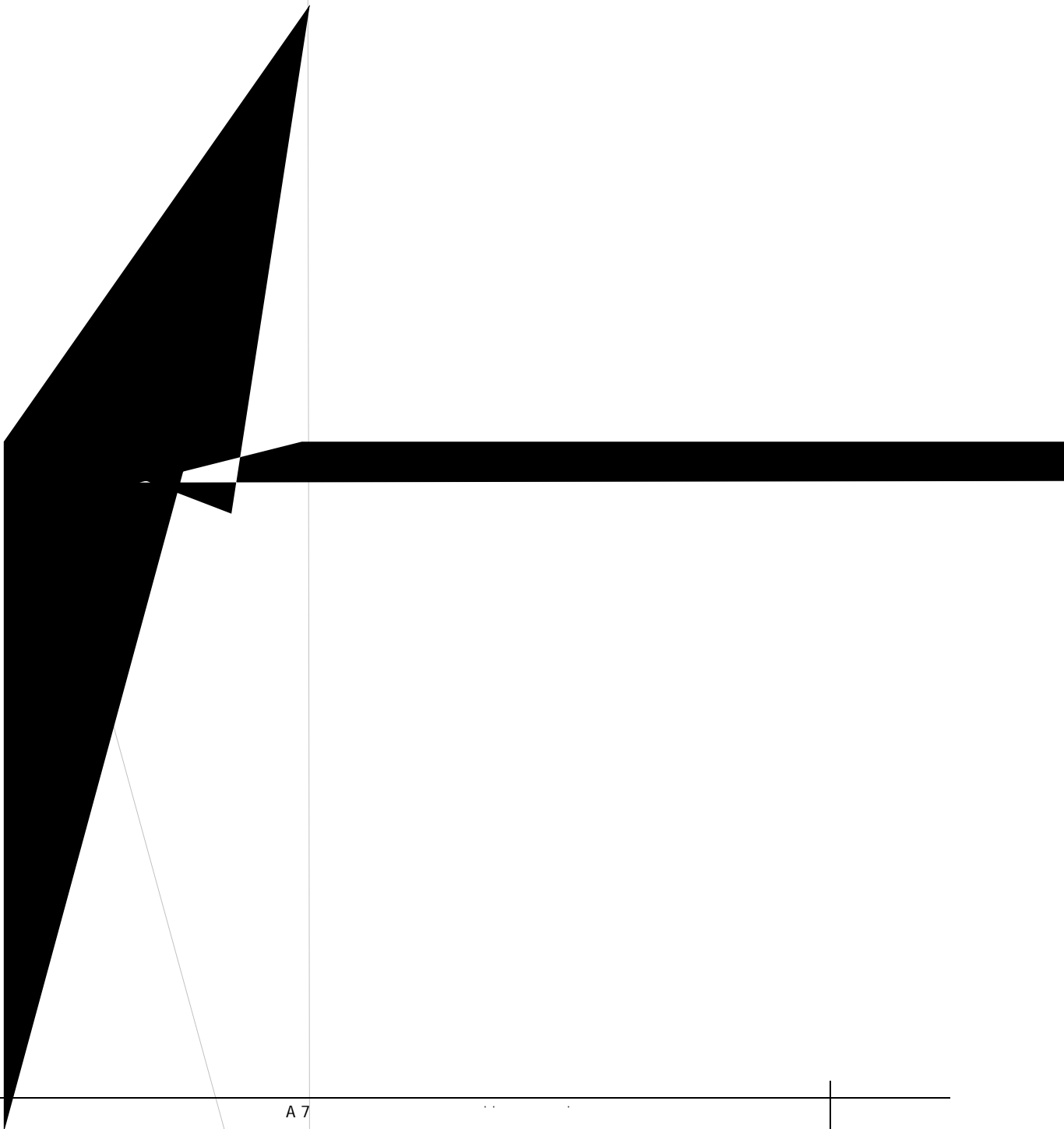
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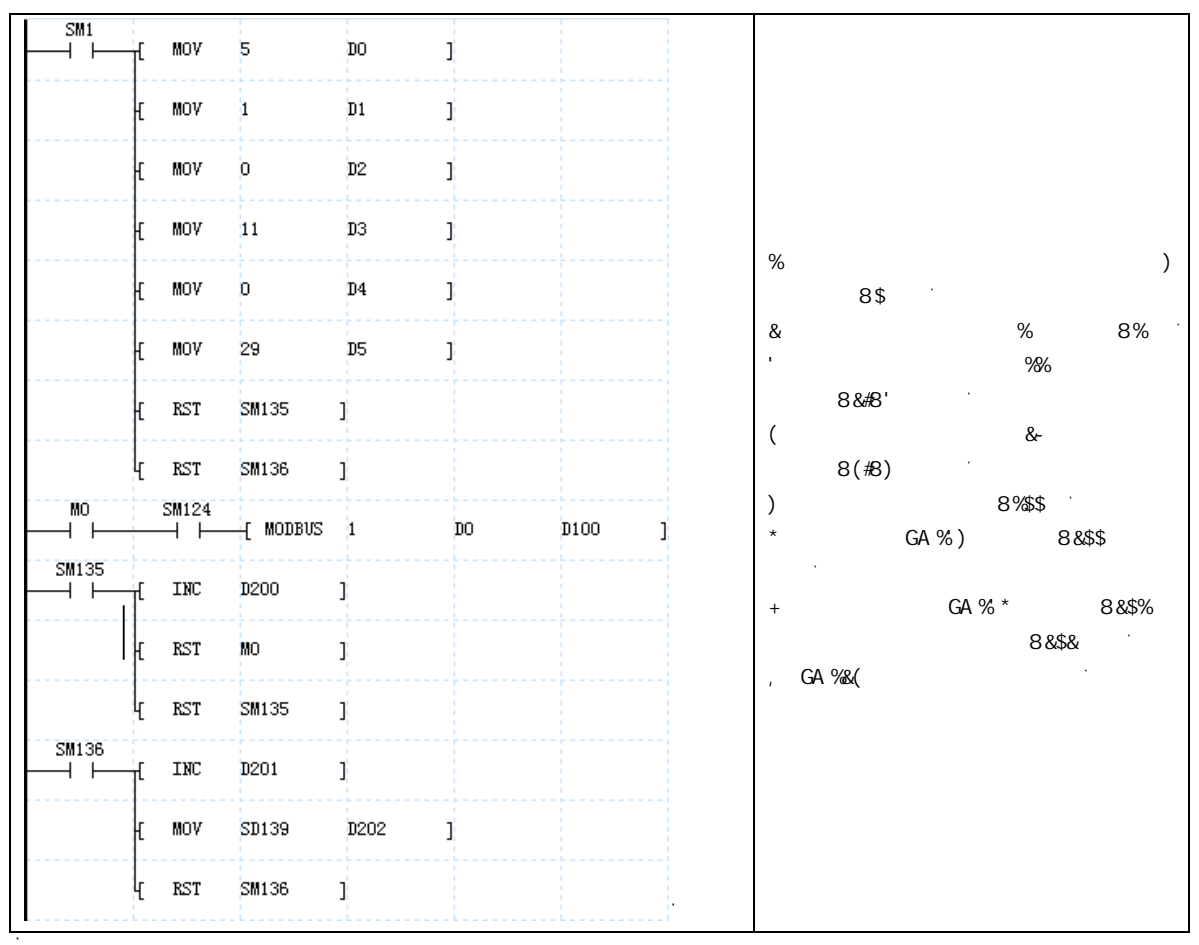
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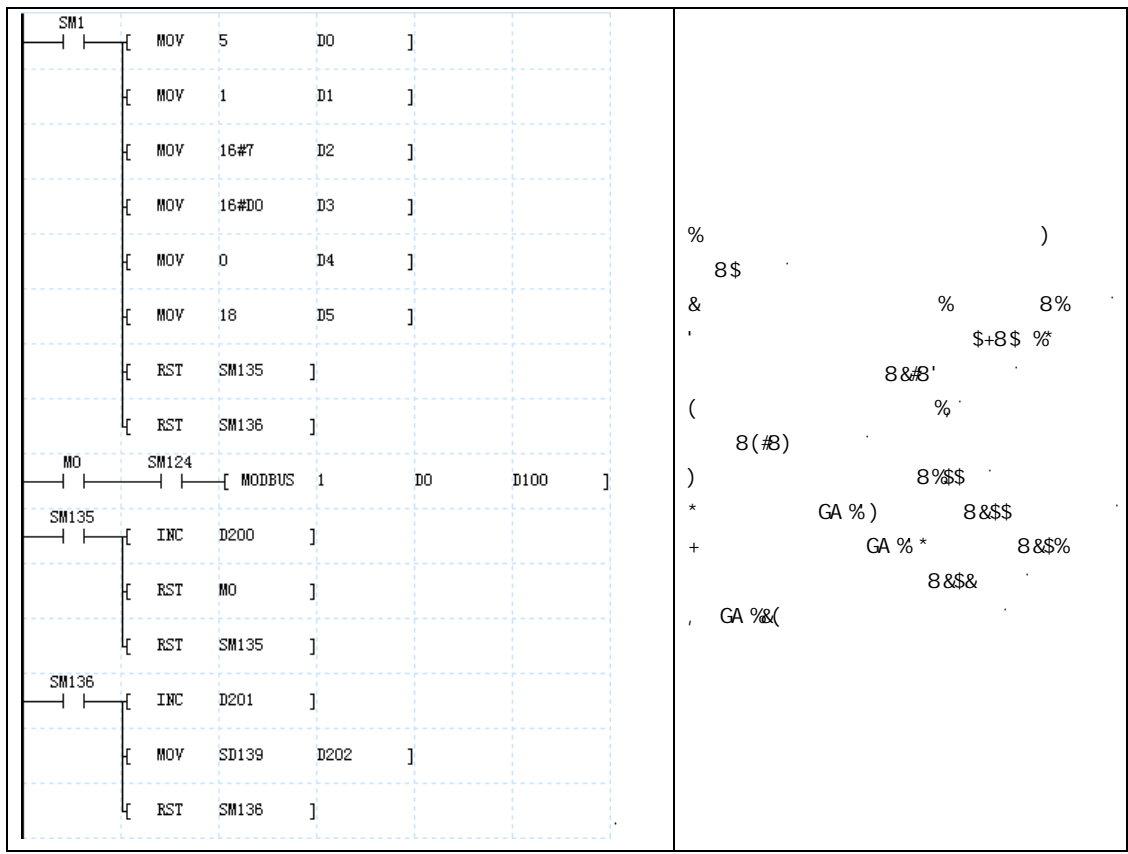
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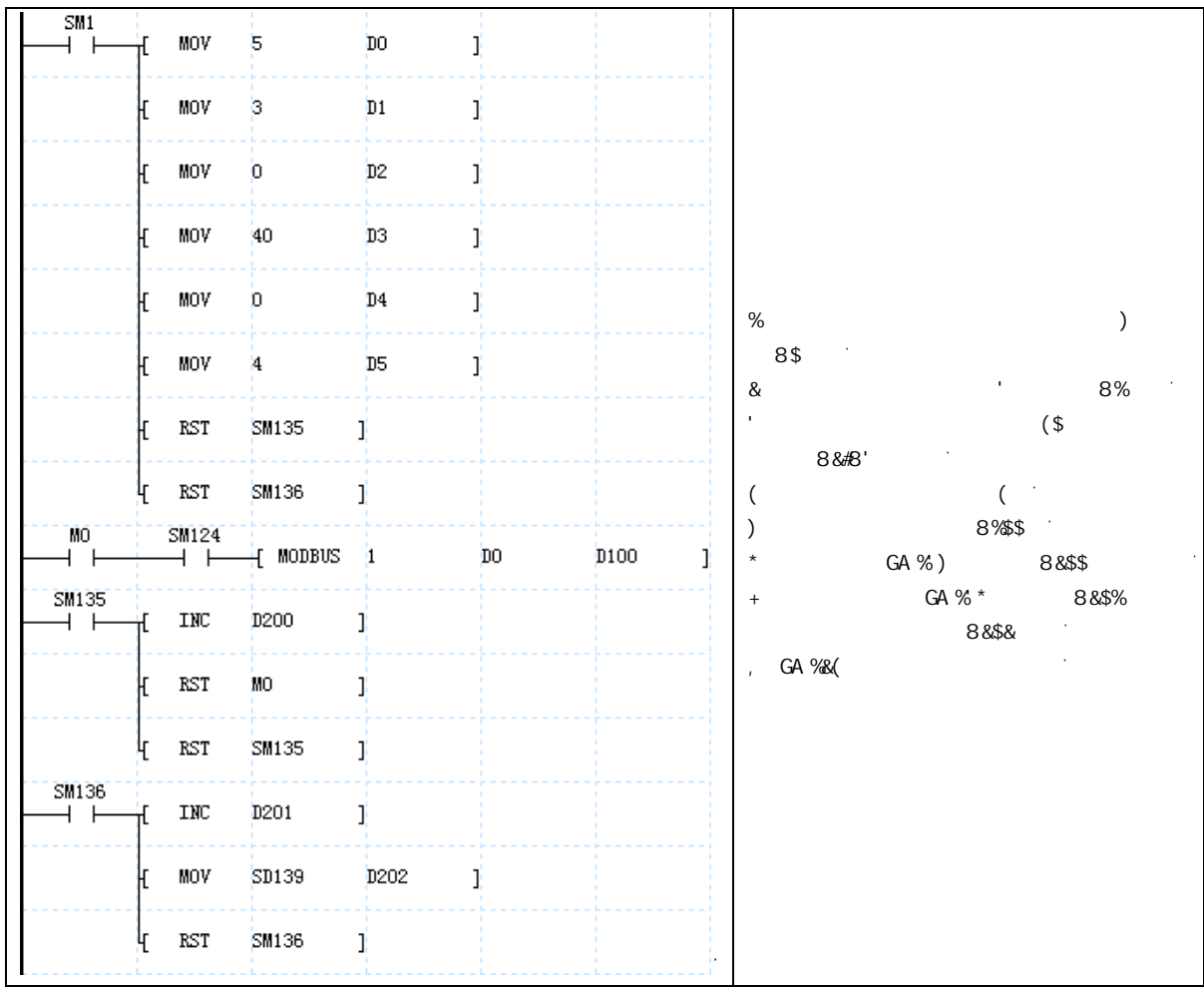
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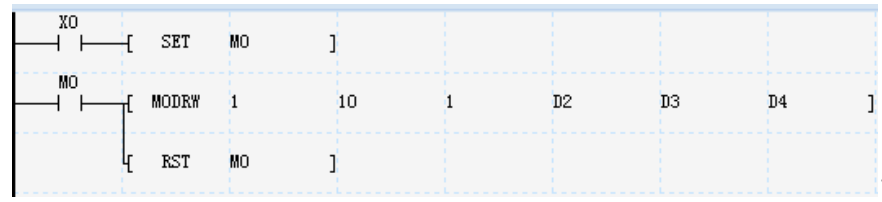
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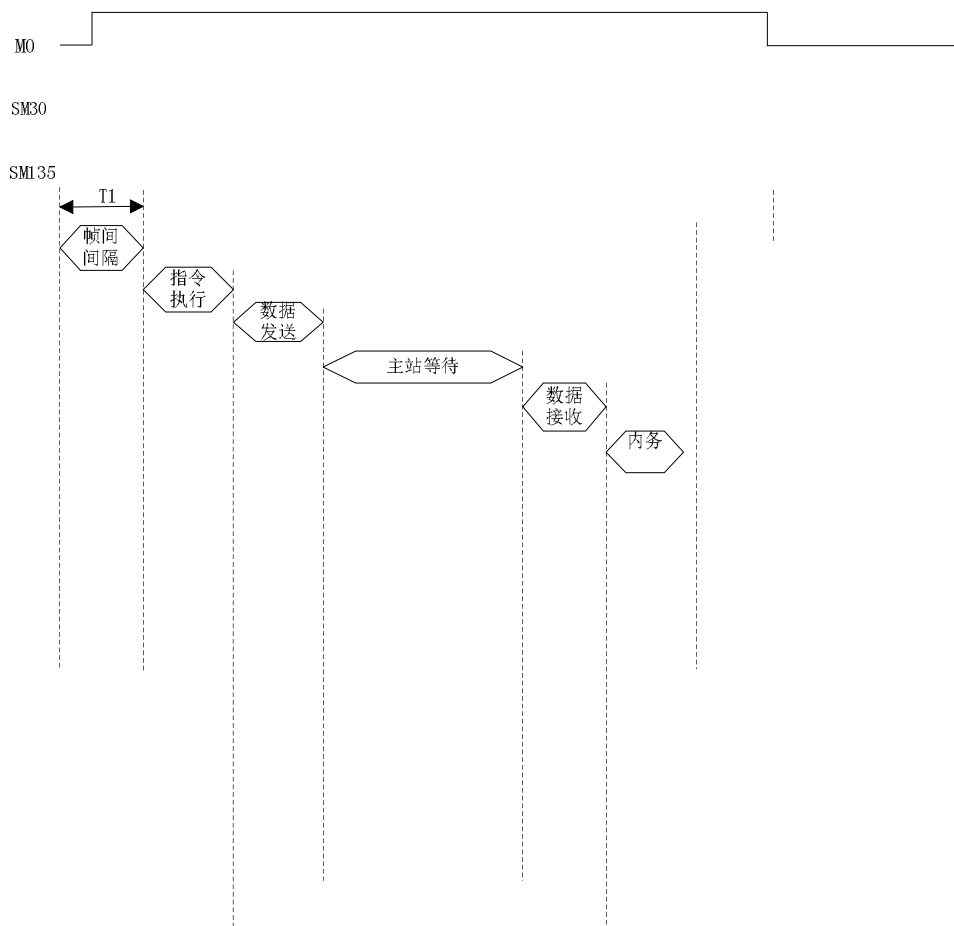
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$$T_{\%} = \% * " \& ') \% \% (\% \%)) " * ms$$

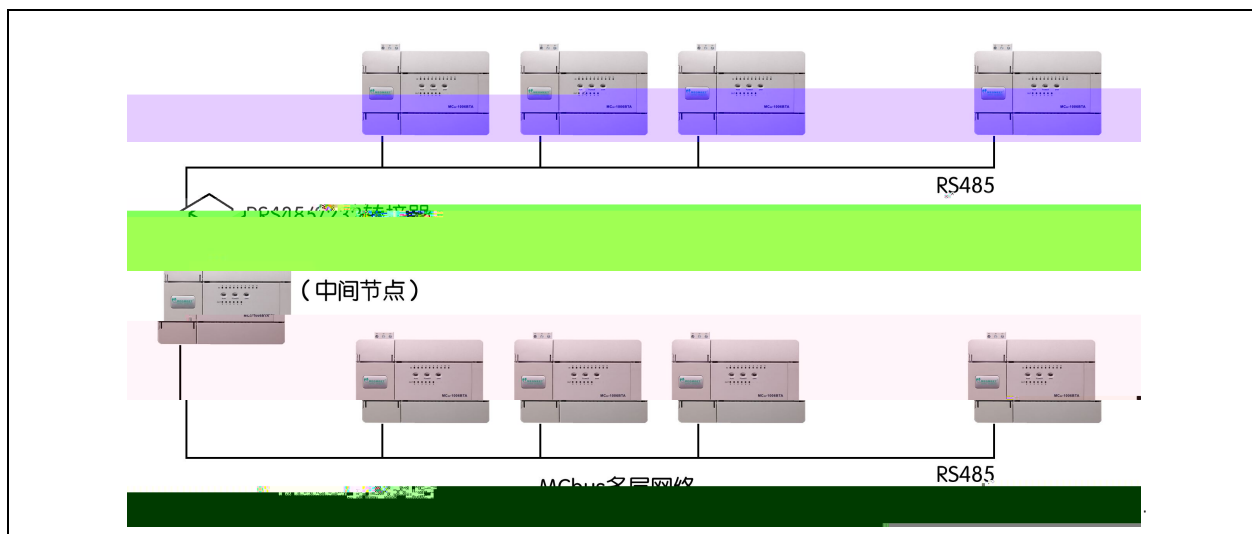
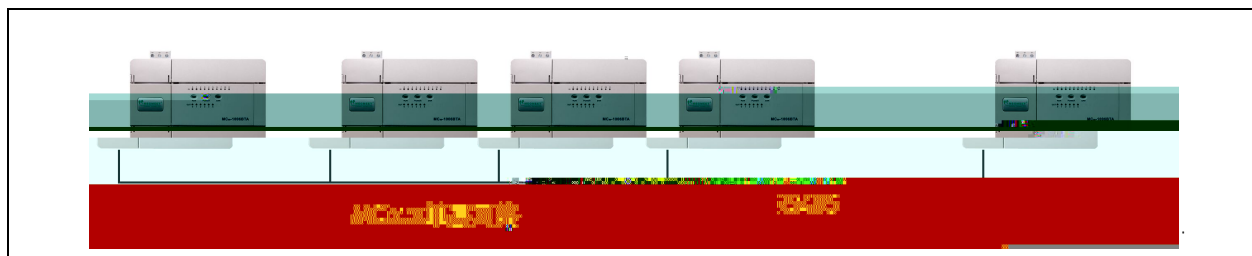
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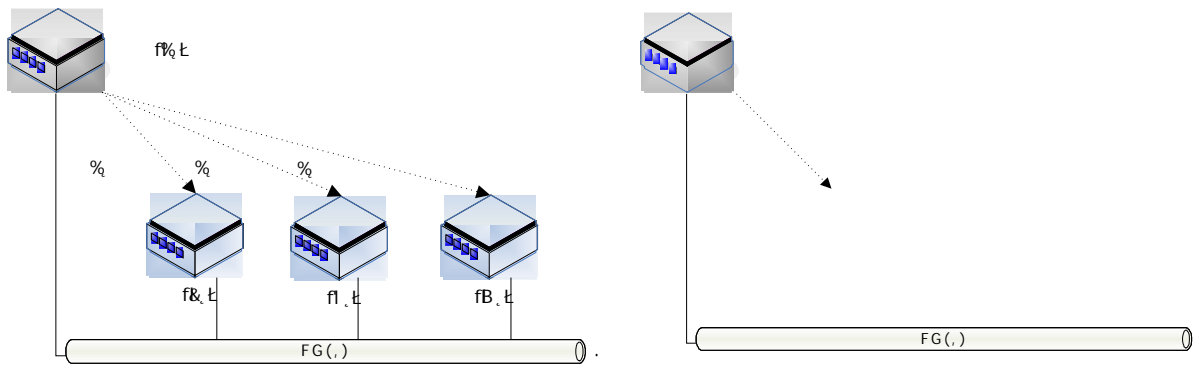
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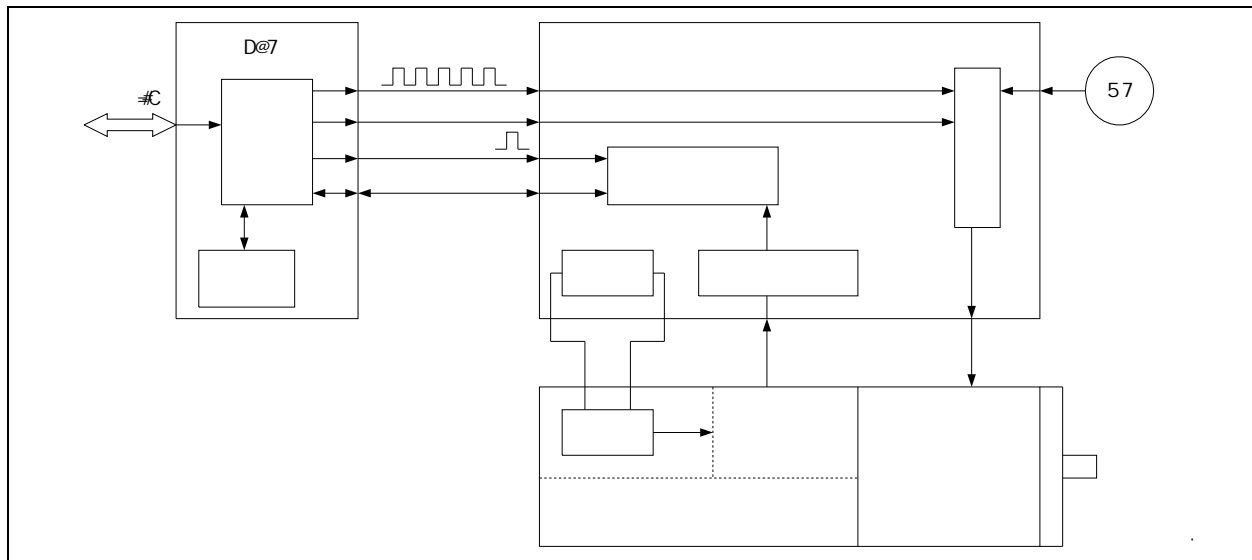
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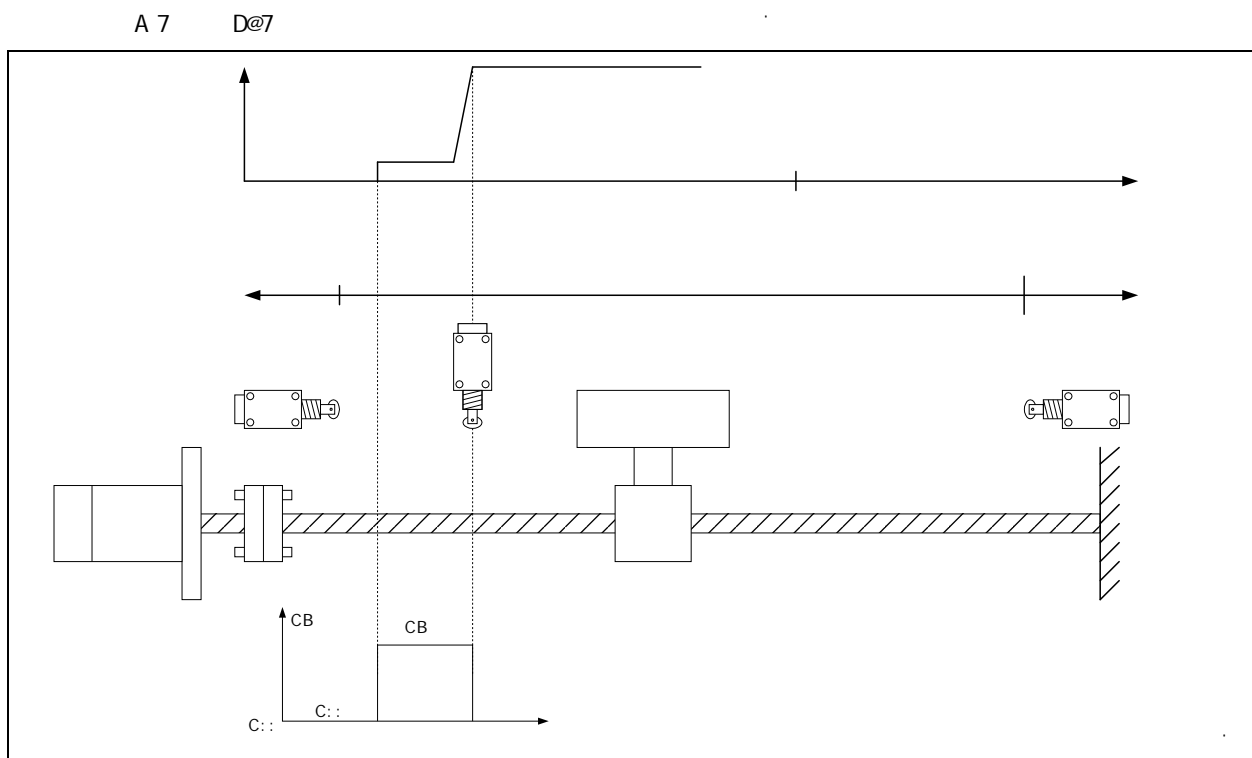
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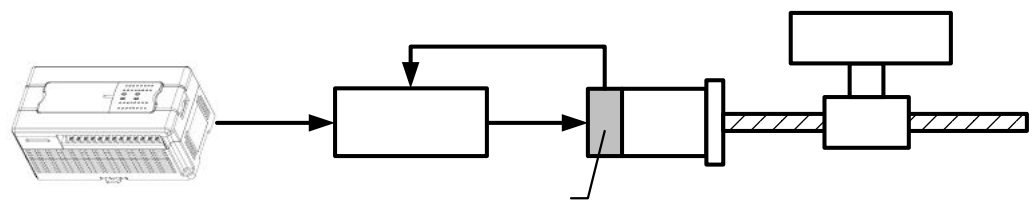
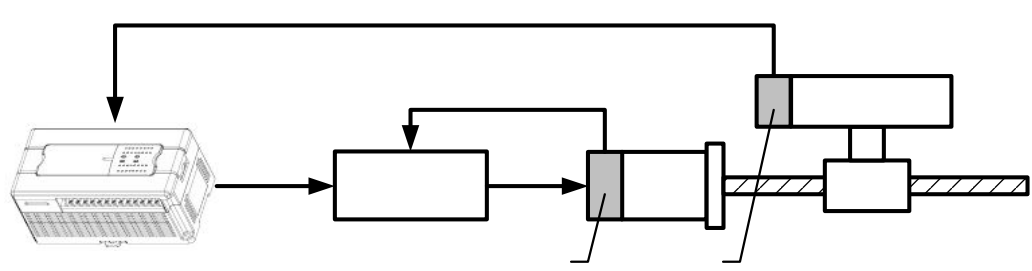
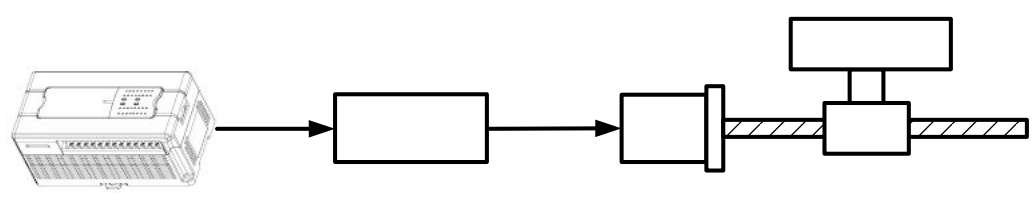
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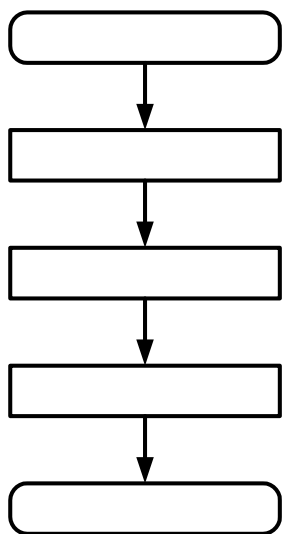
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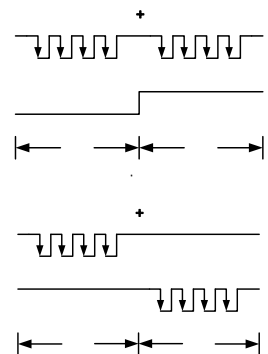
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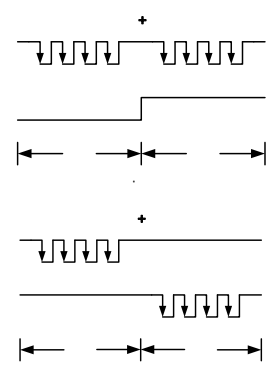
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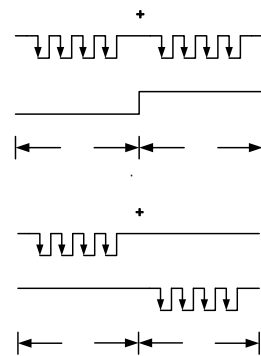
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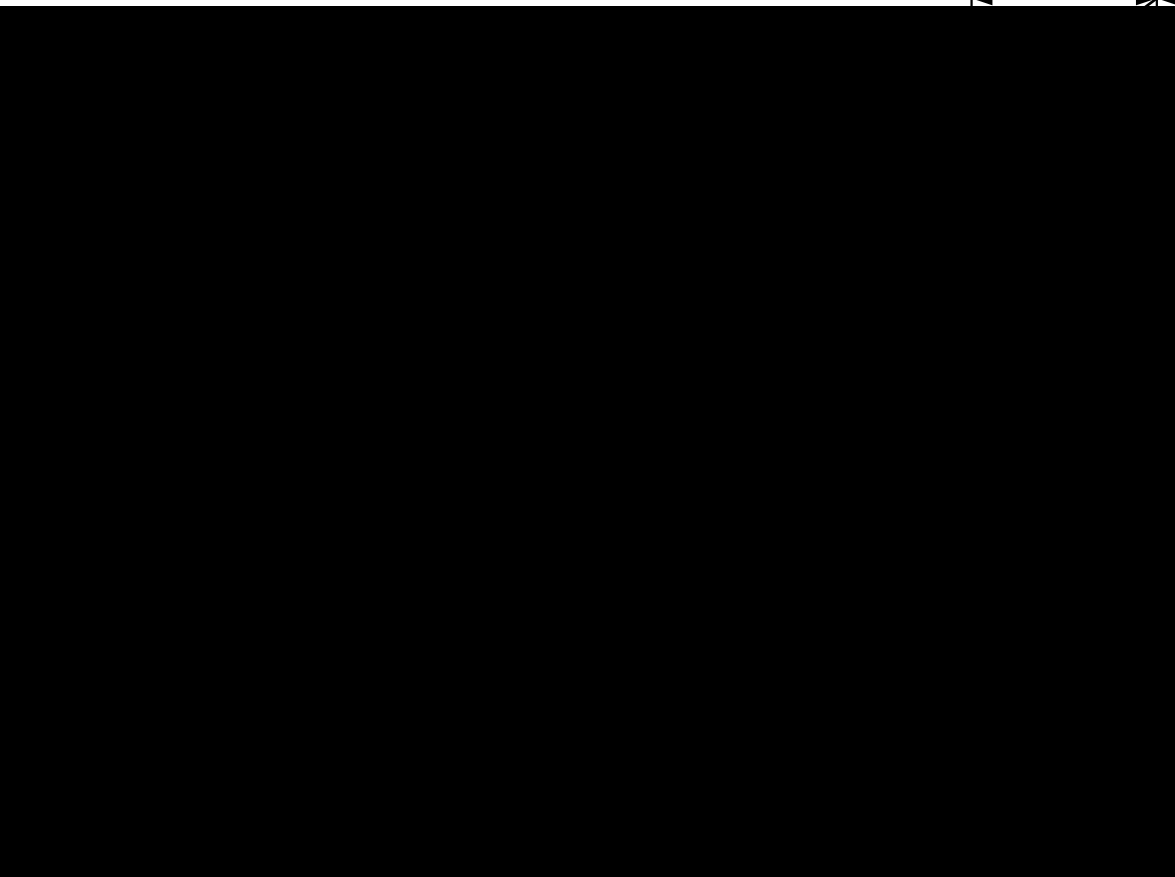
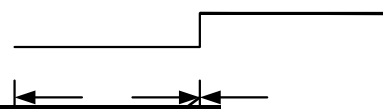
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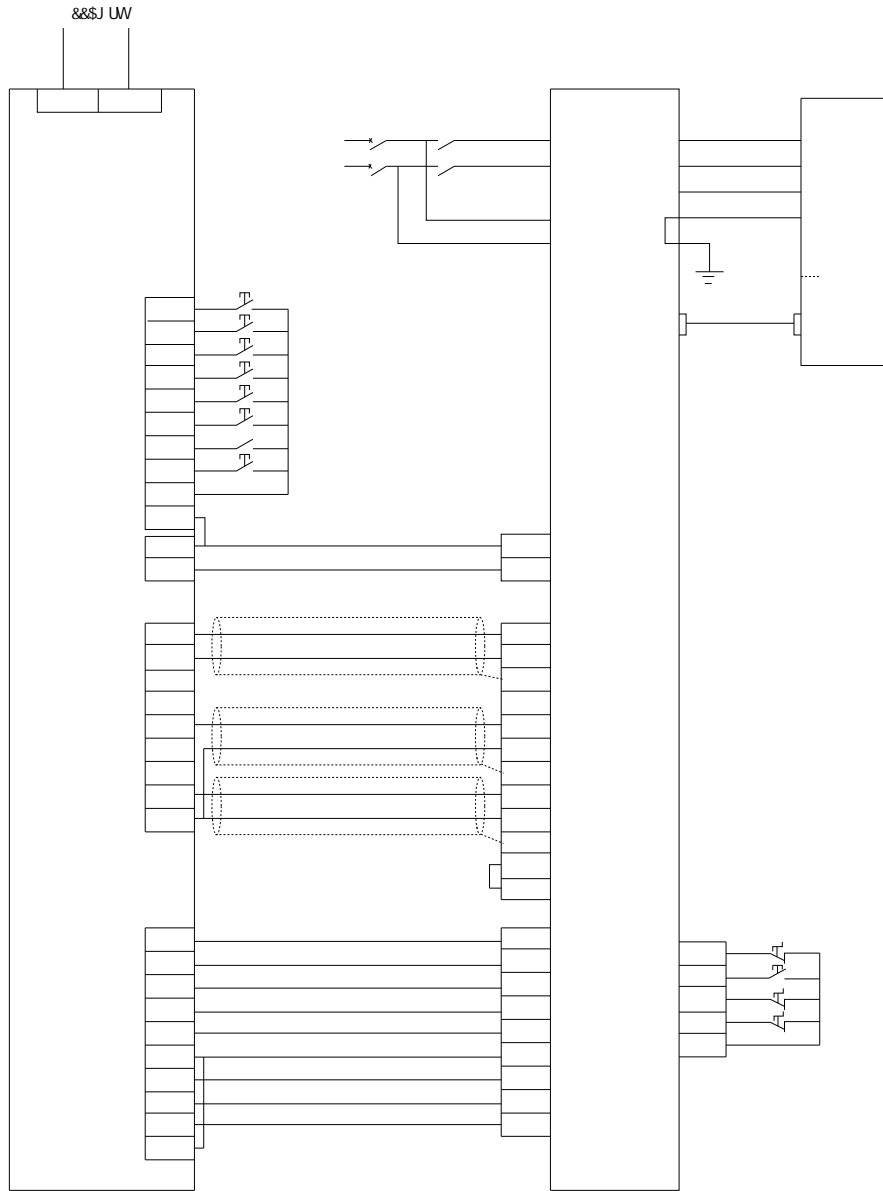
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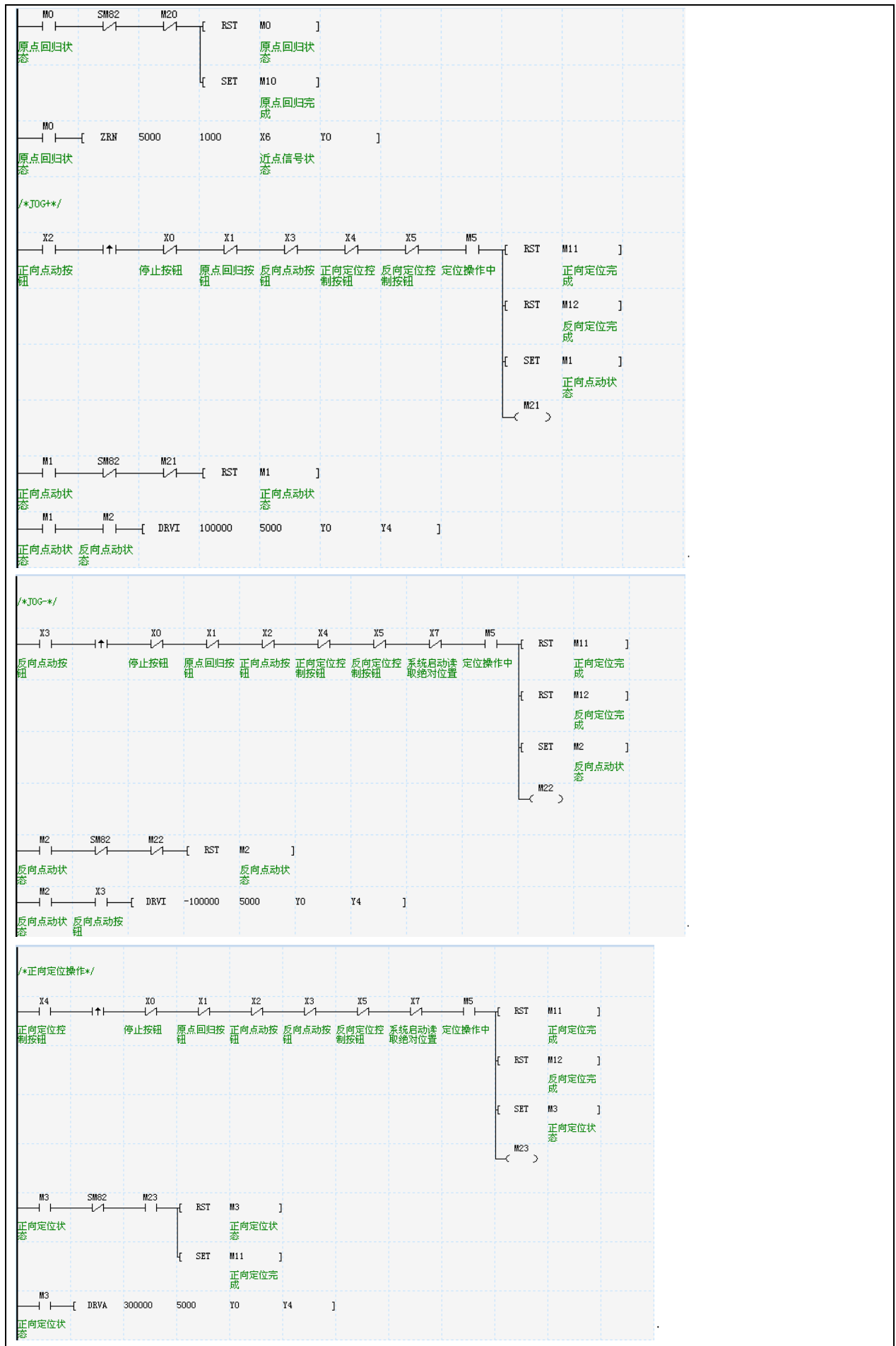


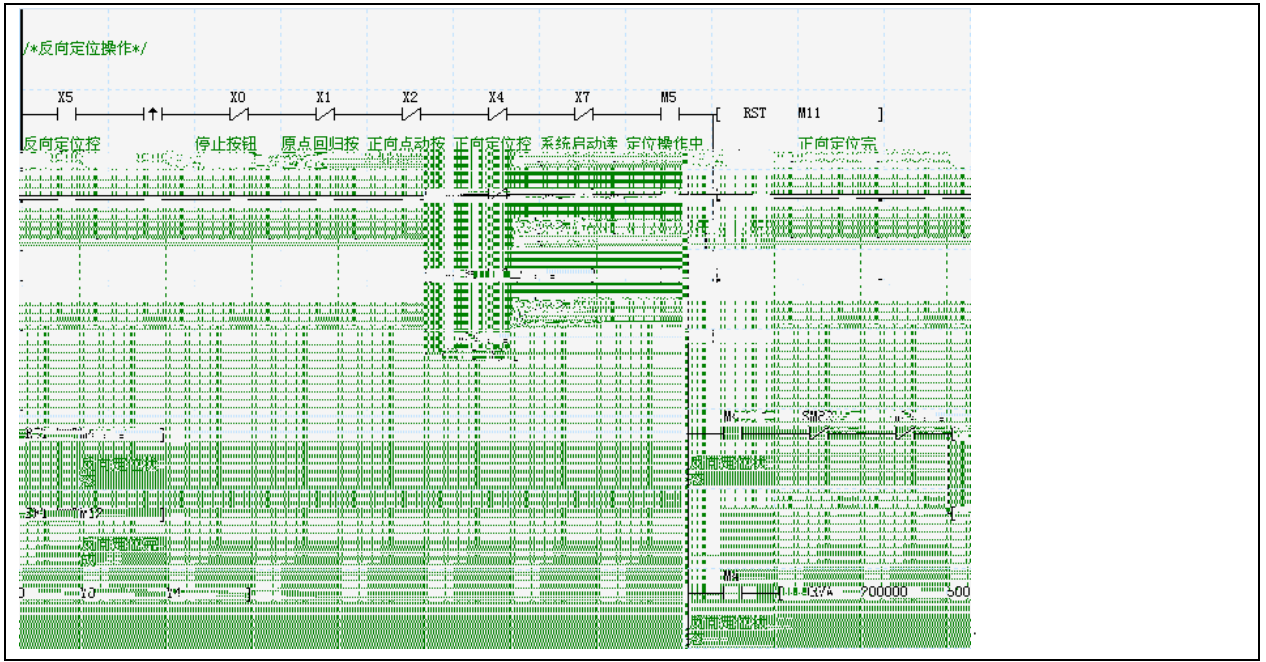
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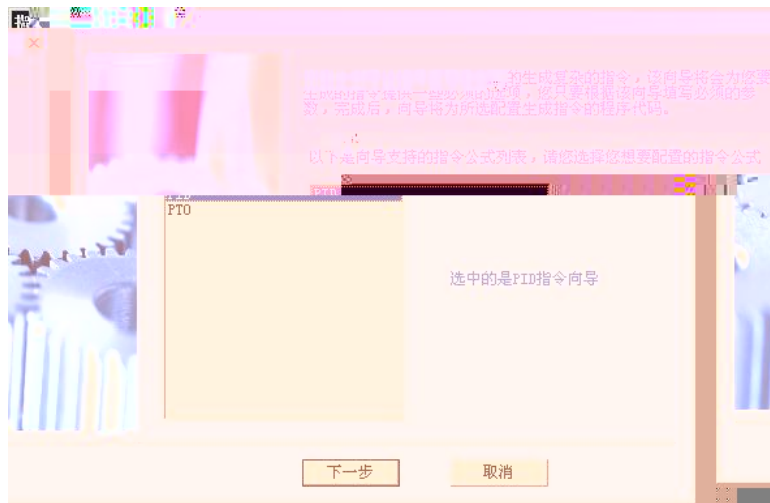


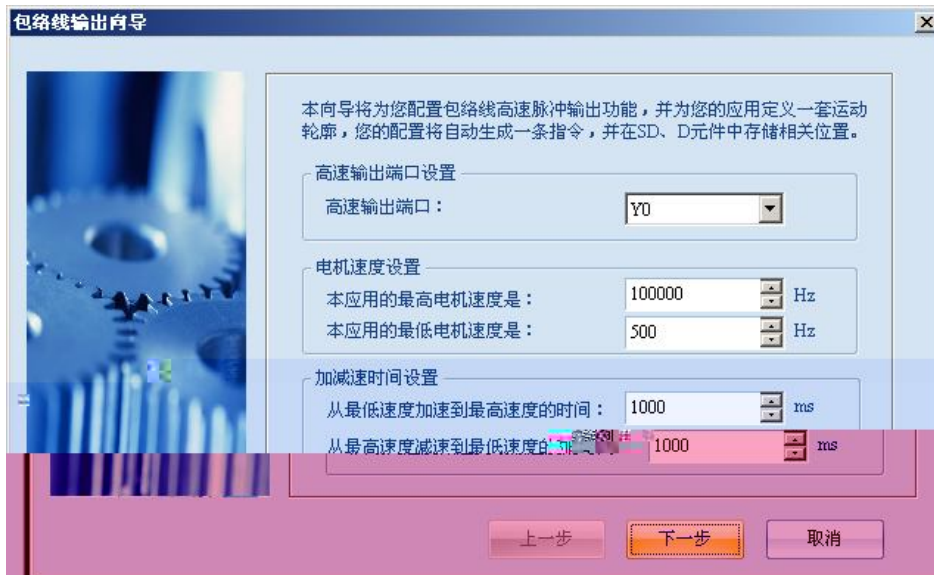
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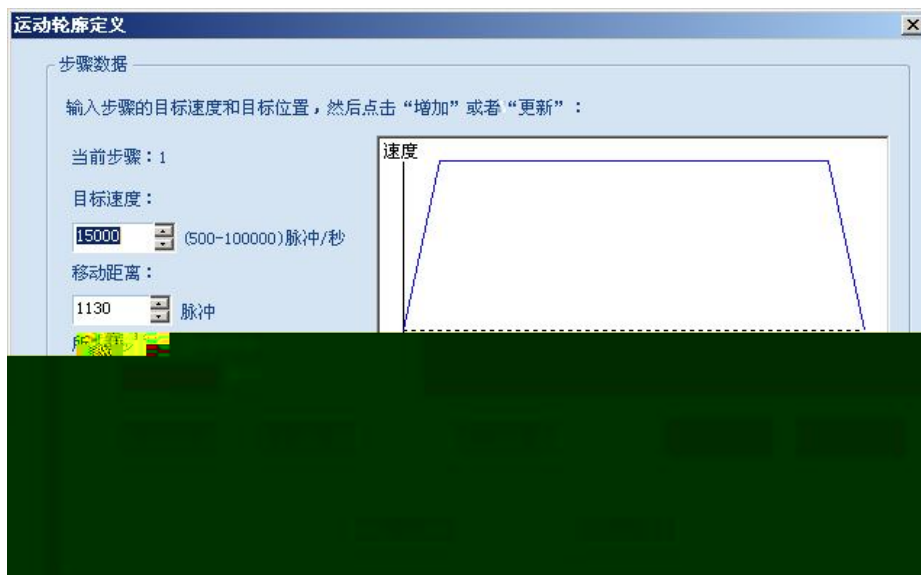
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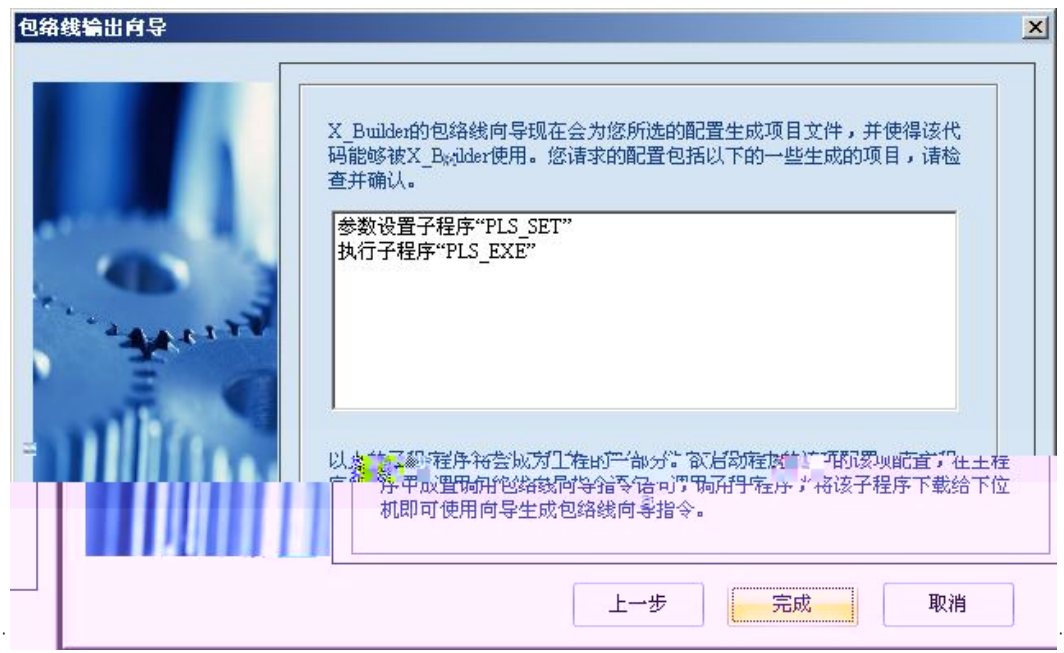


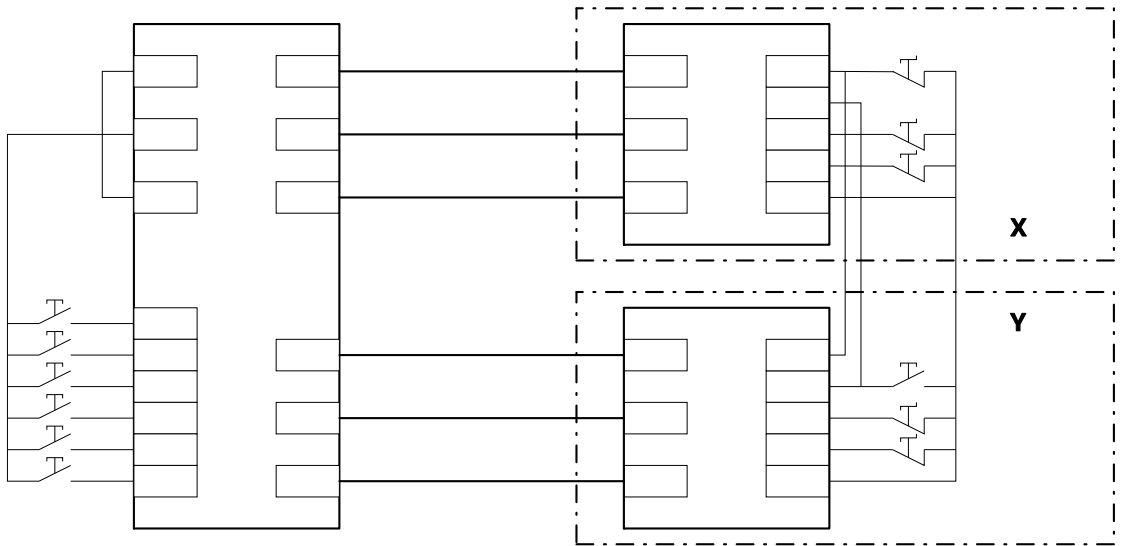
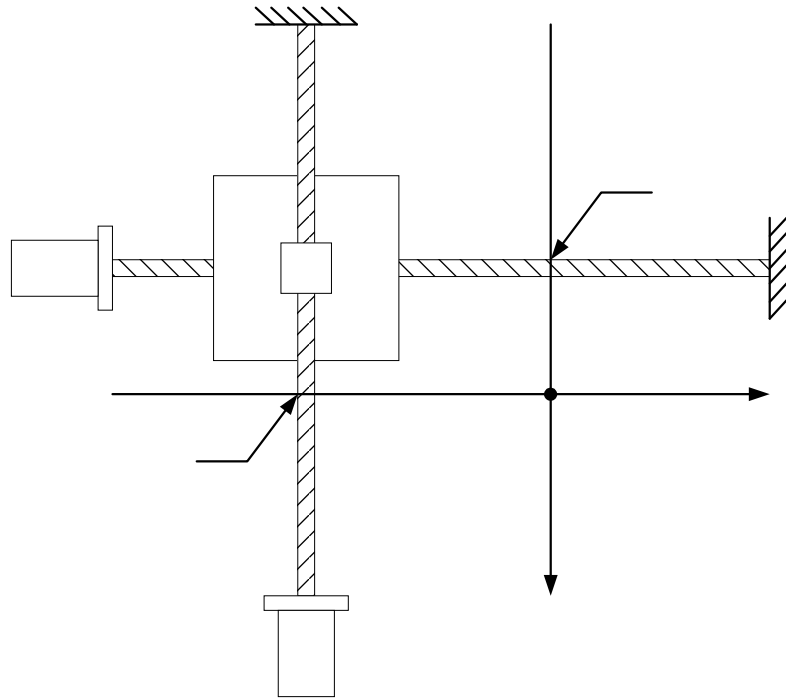
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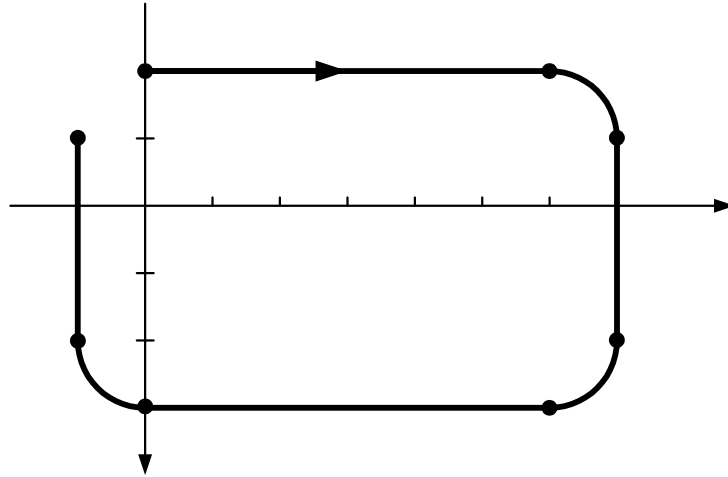


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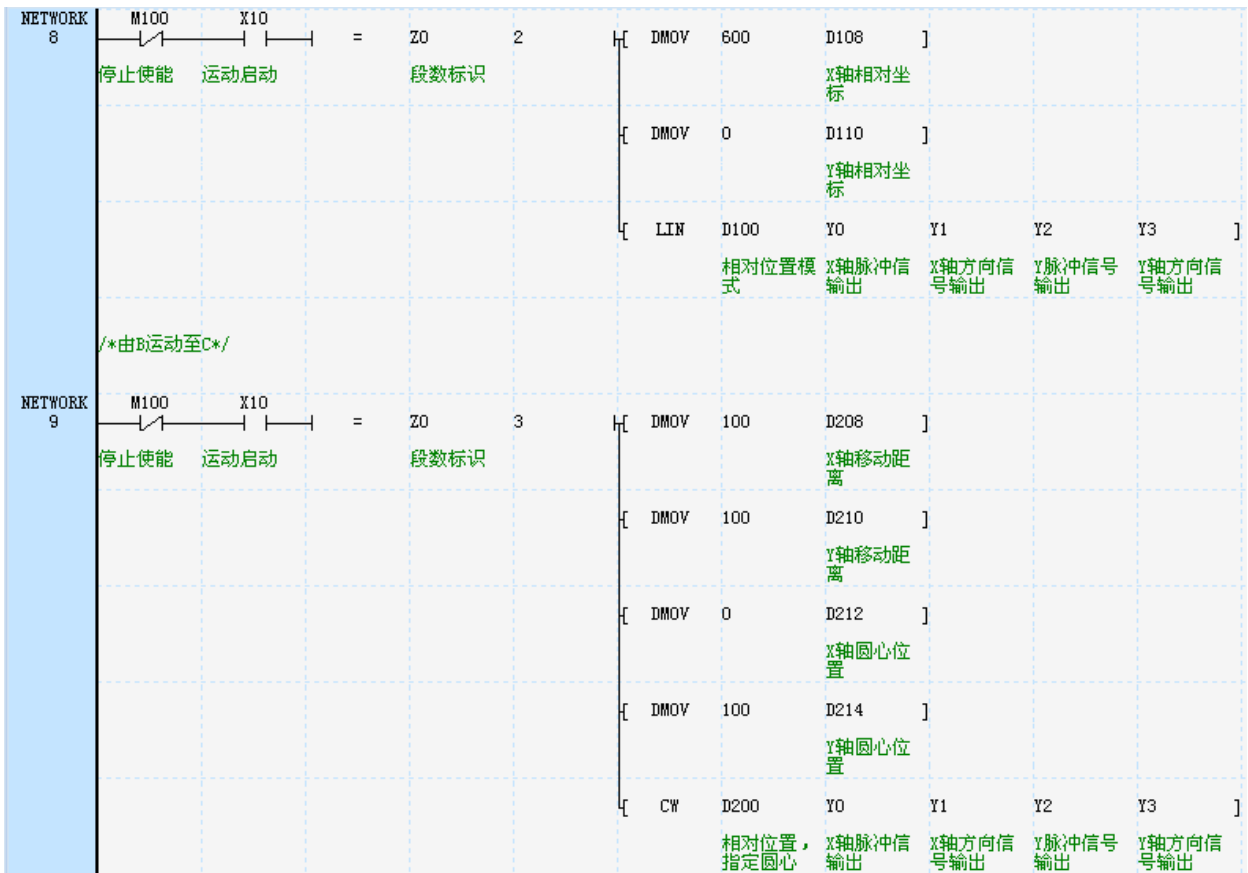
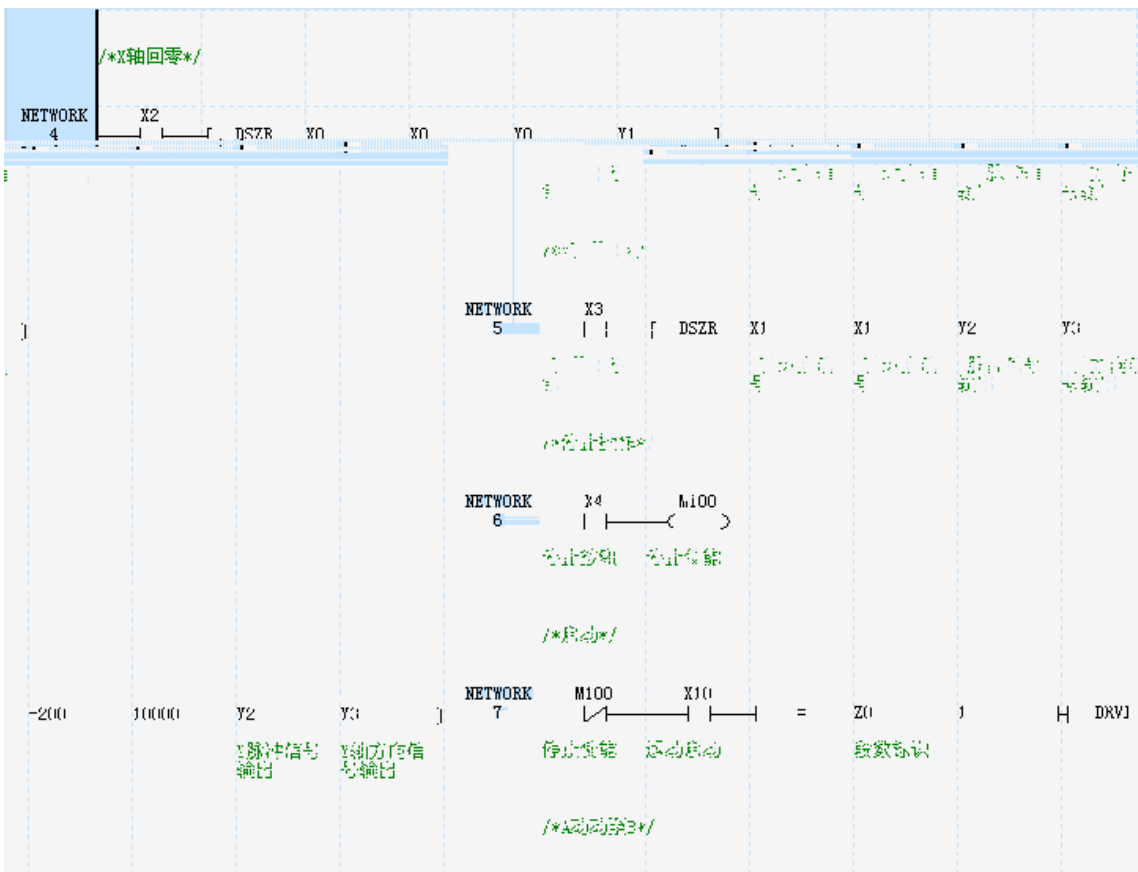
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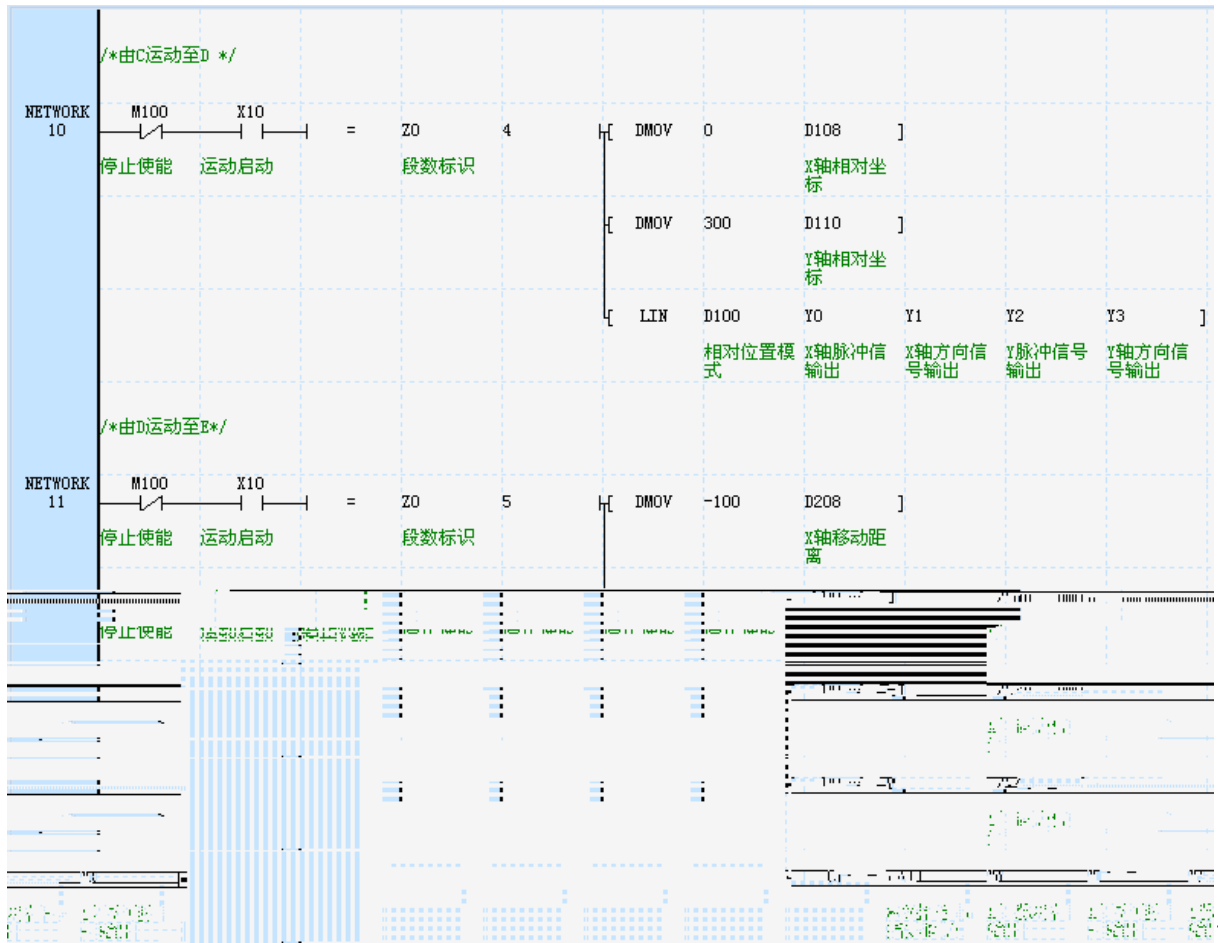


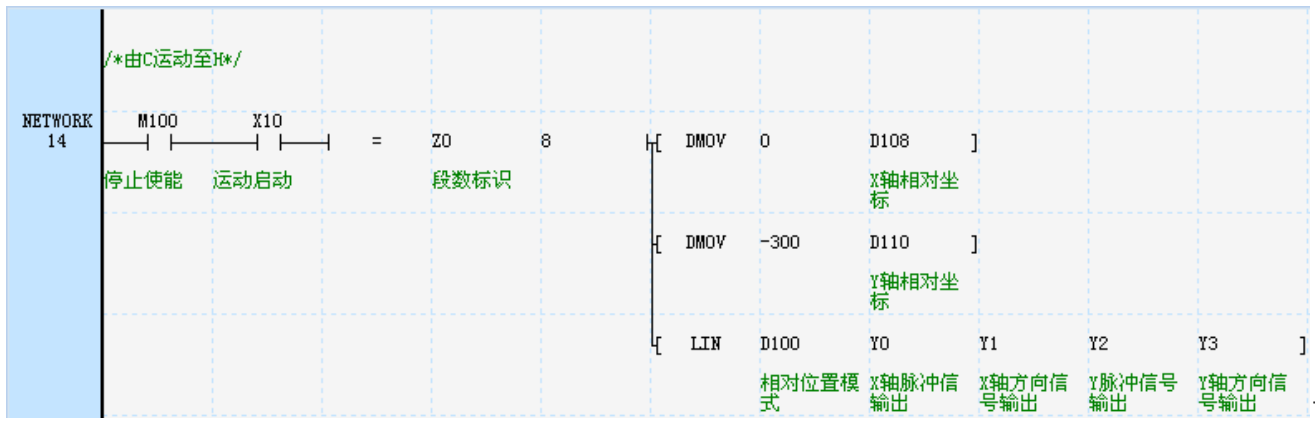
		/*初始化运动控制指令相关软元件*/			
NETWORK 0	SM1	[DMOV	0	D100]
					相对位置模式
		[DMOV	10000	D102]
					直线插补初始速度
		[	DMOV	10000	D104]
					直线插补合成速度
	[	DMOV	100	D106]	
				直线插补减速时间	
	[	DMOV	0	D108]	
				X轴相对坐标	
	[	DMOV	0	D110]	
				Y轴相对坐标	
NETWORK 1	SM1	[	DMOV	0	D200]
					相对位置, 指定圆心
	[	DMOV	10000	D202]	
				圆弧插补保留	

[	DMOV	10000	D204	]	圆弧插补合成速度
[	DMOV	100	D206	]	保留
[	DMOV	0	D208	]	X轴移动距离
[	DMOV	0	D210	]	Y轴移动距离
[	DMOV	0	D212	]	X轴圆心位置
[	DMOV	0	D214	]	Y轴圆心位置
[	MOV	1	Z0	]	段数标识
[	SET	SM72		]	Y2脉冲输出完成中断
[	SET	SM69		]	中断使能控制
[	EI]	

NETWORK 2	SNO	[	DMOV	200000	SD202	]	Y0最高速度
		[	MOV	10	SD204	]	Y0基度速度
		[	MOV	100	SD205	]	Y0加减速时间
		[	MOV	10	SD207	]	Y0爬行速度
		[	DMOV	2000	SD208	]	Y0回归速度
NETWORK 3	SNO	[	DMOV	200000	SD322	]	Y2最高速度
		[MOV	10	SD324]	Y2基度速度
		[MOV	100	SD325]	Y2加减速时间
		[MOV	10	SD327]	Y2爬行速度
		[DMOV	2000	SD328]	Y2回归速度







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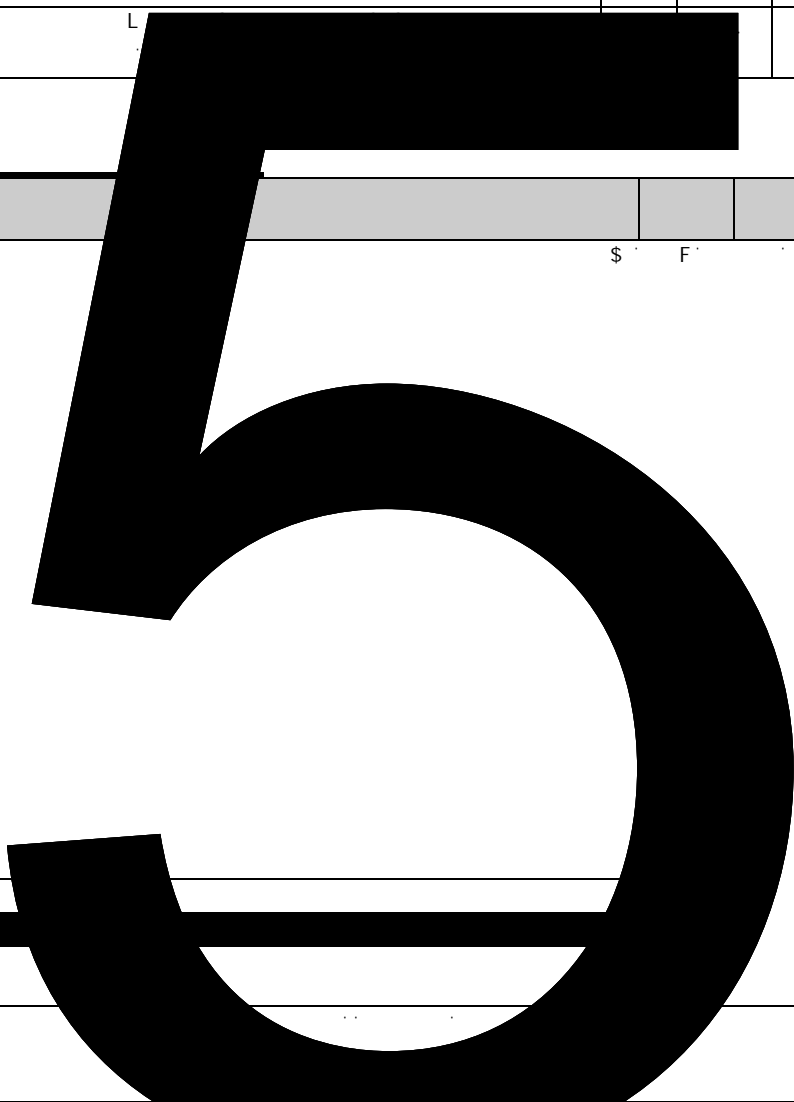
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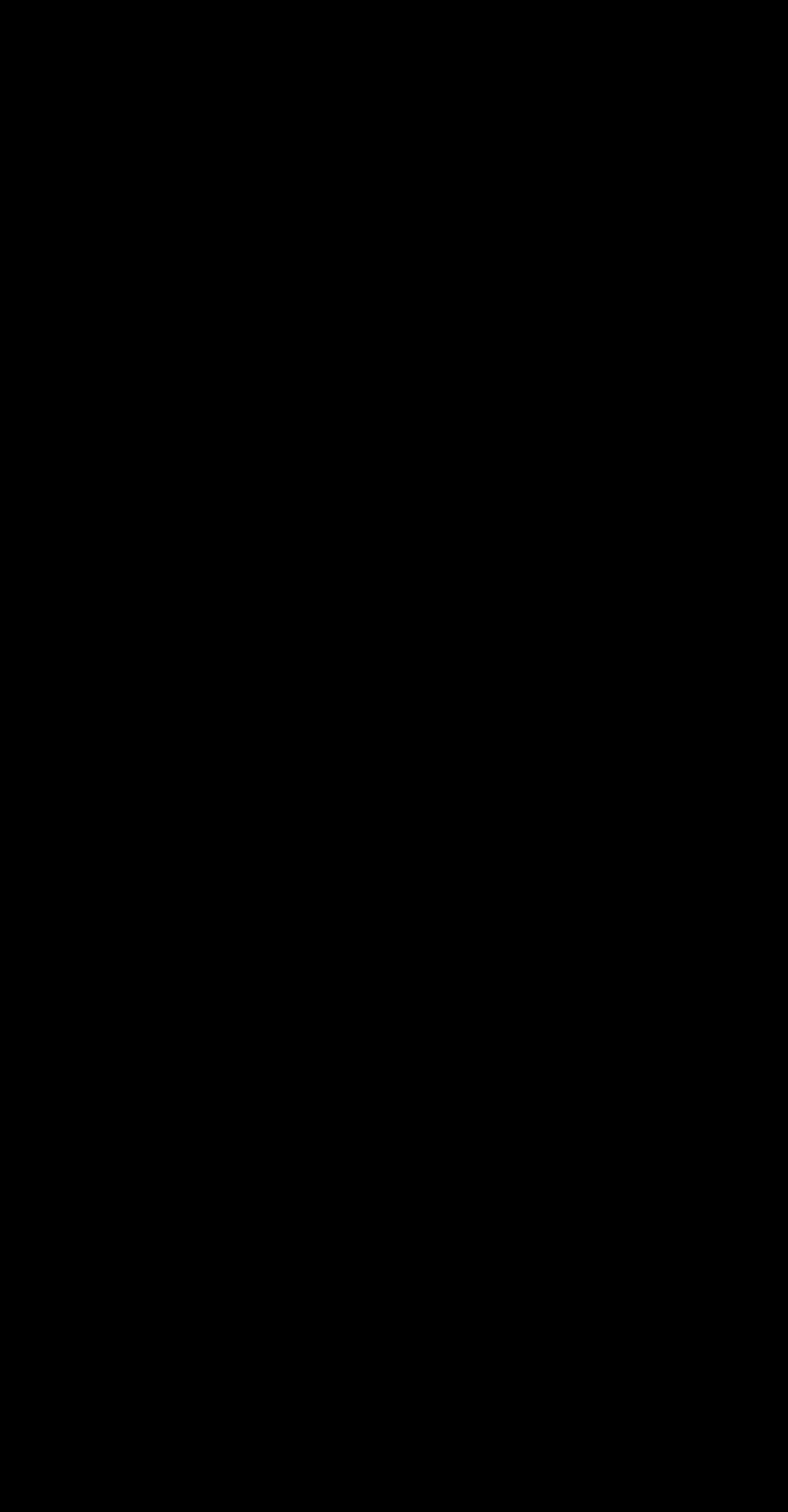
& G8 GA

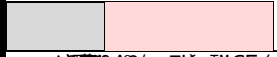
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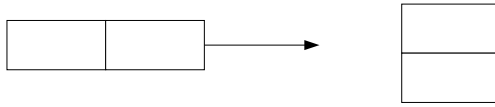
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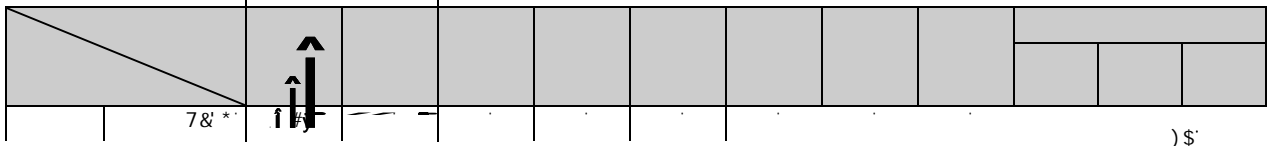
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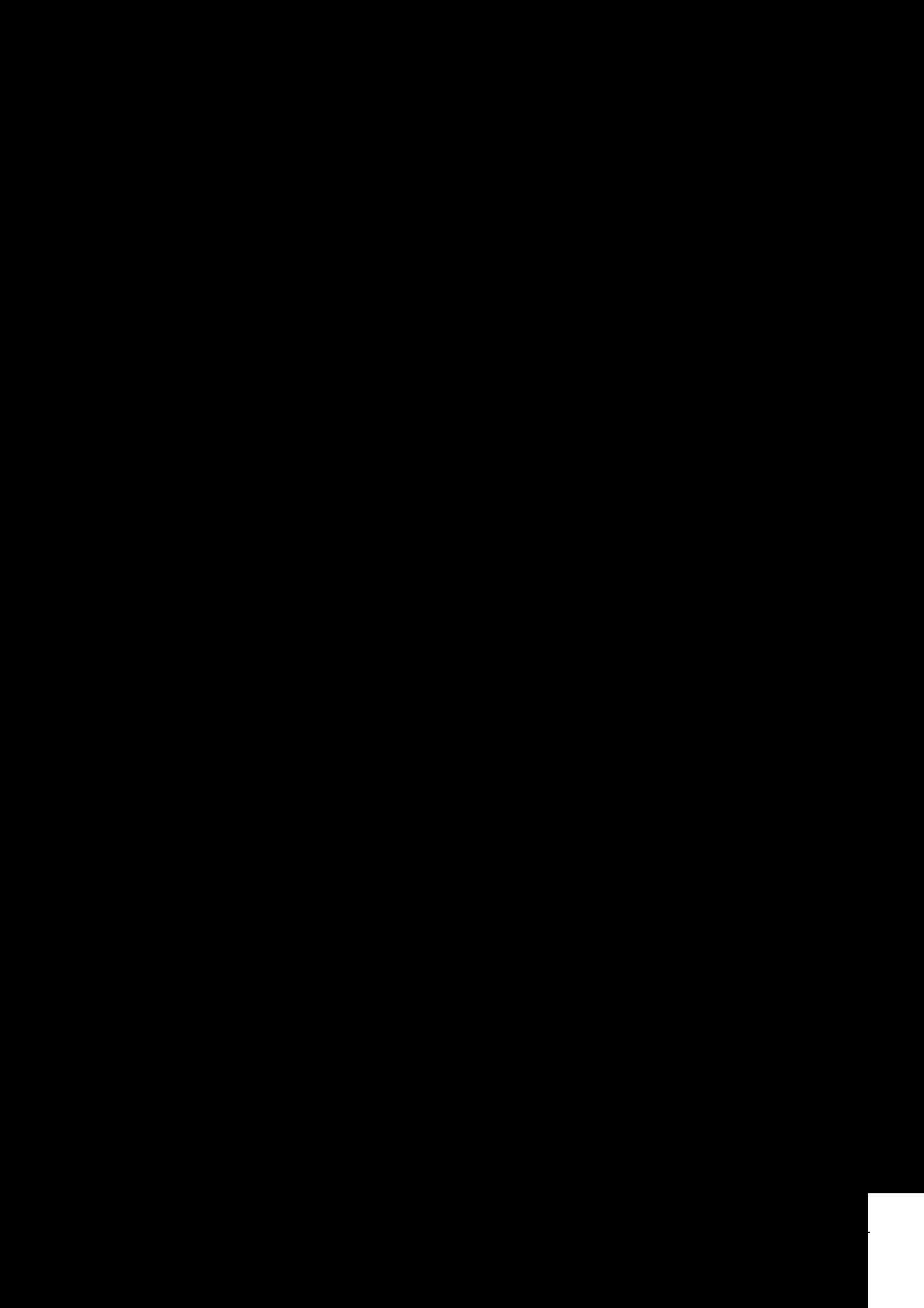
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