硬件手册

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Microsoft Windows WindowsNT /

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A LM PLC 88

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1

1.1

LM PLC

PLC LM PLC

LM PLC

1.1.1 LM PLC

LM PLC

LM PLC

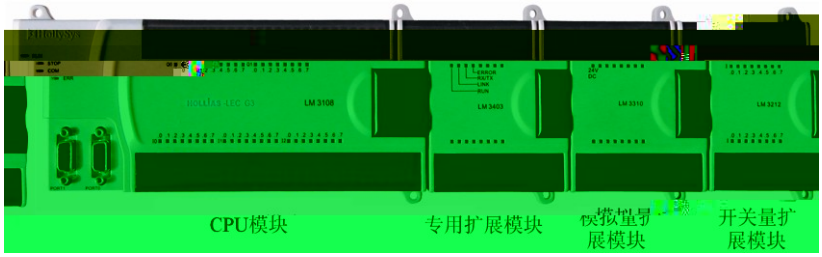
LM PLC

1.2

LM PLC CPU CPU CPU

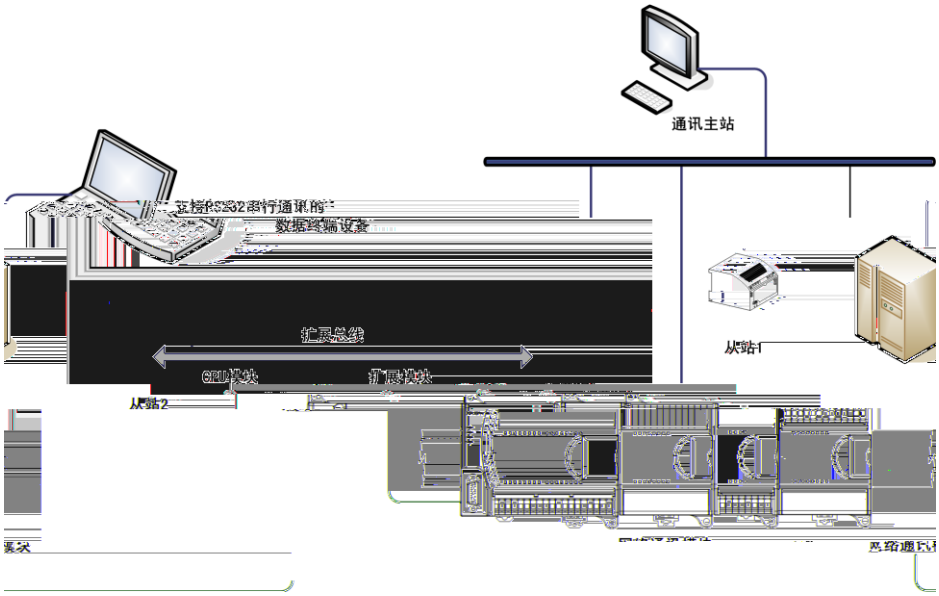
I/O I/O

1.2.1 LM PLC



1.2.1 LM PLC

1.2.2 LM PLC



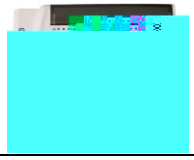
1.2.2 LM PLC

1.2.1 CPU

CPU PLC PLC CPU

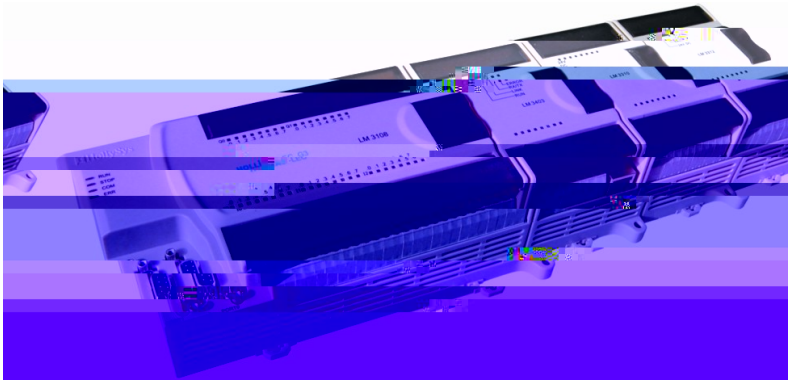
LM PLC 8 CPU 1.2.1 CPU
CPU CPU

1.2.1 LM PLC CPU

LM3104		8 6 14 I/O 2 3 100KHz 2 100KHz 1 20KHz 1 RS232 MODBUS RTU
LM3105		8 6 14 I/O 2 3 100KHz 2 100KHz 1 RS232 MODBUS RTU
LM3106		14 10 24 I/O 4 3 100KHz 2 100KHz 2 20KHz 1 RS232 MODBUS RTU
LM3106A		14 10 24 I/O 4 3 100KHz 2 100KHz 1 RS232 MODBUS RTU
LM3107		14 10 24 I/O 4 3 100KHz 2 100KHz 1 RS232 MODBUS RTU
LM3107E		12 DI 8 DO 2 AI 1 AO 23 I/O 4 3 100KHz 2 100KHz 1 RS232 MODBUS RTU
LM3108		24 16 40 I/O 7 3 100KHz 2 100KHz 2 20KHz 1 RS232 1 RS485 MODBUS RTU
LM3109		24 16 40 I/O 7 3 100KHz 2 100KHz 1 RS232 1 RS485 MODBUS RTU

1.2.2

CPU I/O I/O
I/O PLC
I/O
LM PLC I/O I/O
PROFIBUS-DP 1.2.3
LM PLC



1.2.3 LM PLC

1.2.3 I/O

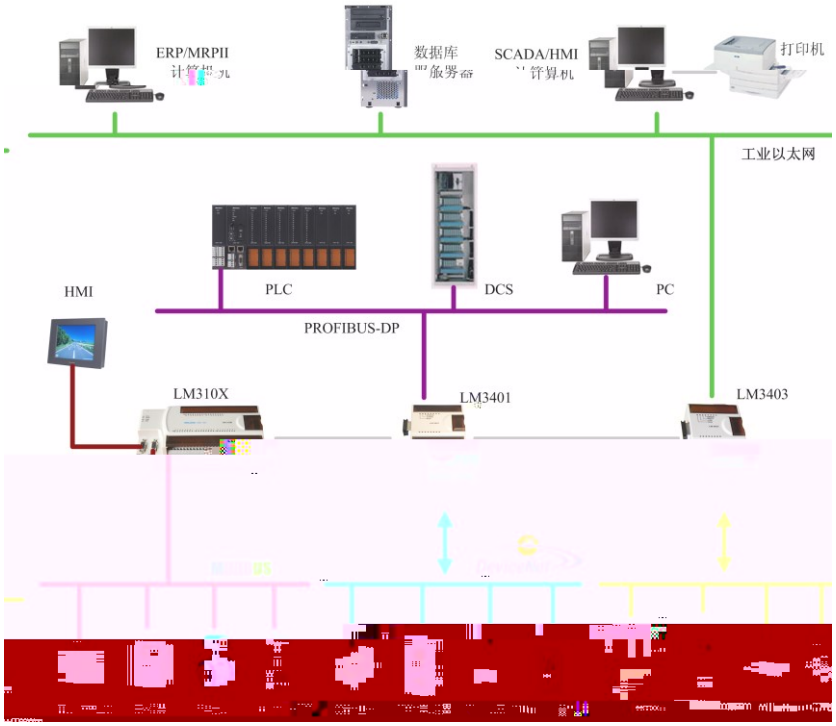
LM PLC I/O CPU I/O

1.2.2 CPU I/O I/O

1.2.2 CPU I/O

CPU				
LM3104/ LM3105				
CPU	8	6	-	-
2	16 2	16 2	8 2	2 2
	8+32	6+32	16	4
LM3106/LM3106A/ LM3107				
CPU	14	10	-	-

LM3403 Modbus TCP LM
PLC 10Mbps 200



1.3.1

1.4

LM PLC CPU CPU
LM CPU 24VDC CPU
1.4.1

CPU
CPU PLC
1.2.2 CPU 1.4.2

1.4.1 CPU

	24VDC ( )	24VDC ( )	5VDC ( )
LM3210	0mA	40mA	60mA
LM3212	0mA	80mA	90mA
LM3220	0mA		100mA
LM3221	0mA		180mA
LM3222	40mA		60mA
LM3223	80mA		120mA
LM3230	0mA	20mA	90mA
LM3231	20mA	20mA	90mA
LM3233	40mA	20mA	60mA
LM3310	20mA	0mA	100mA
LM3310B	0mA	30mA	100mA
LM3311	0mA	0mA	100mA
LM3312	0mA	0mA	120mA
LM3313	35mA	0mA	100mA
LM3320	0mA	80mA	

1.5

PowerPro LM PLC Windows

PowerPro IEC61131-3

LD IL FBD SFC CFC

ST

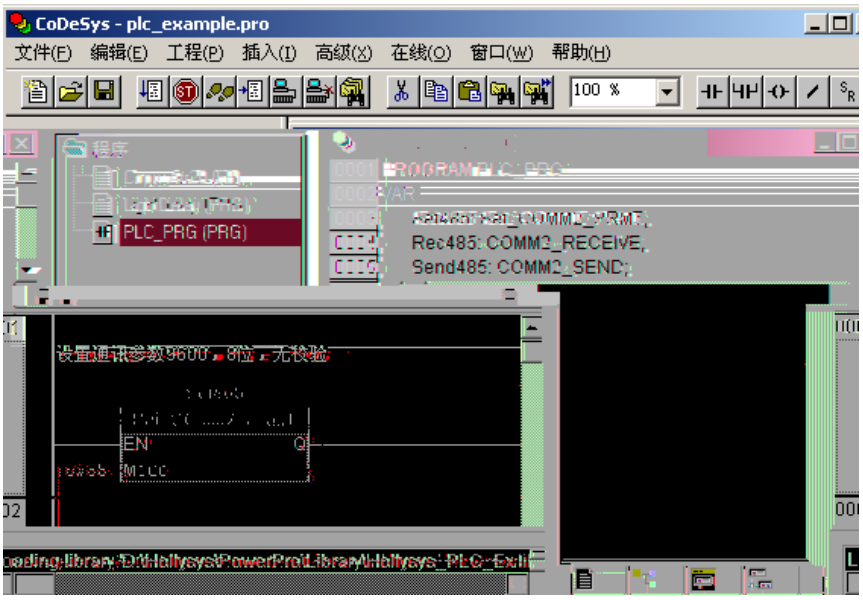
IEC61131-3

LD IL ST FBD

SFC CFC 6

400

32 PID



1.5.1 PowerPro

8

1.6

PLC LM

PLC

1.6.1

1.6.2

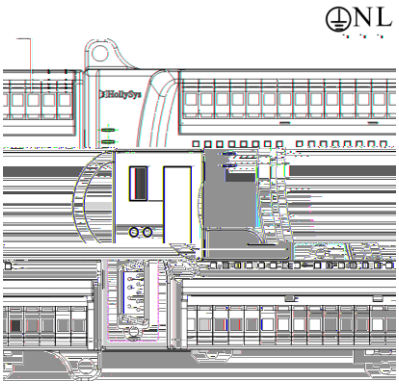
CPU

PLC

PLC 4

1.6.3

CPU 4 1.6.1



1.6.1

CPU RUN

1.6.4 PC

CPU PC 1.6.2

PLC

1.6.2

1.6.5

PowerPro PC CPU

PowerPro

LM

1.6.6

PLC

LM PLC

2 CPU

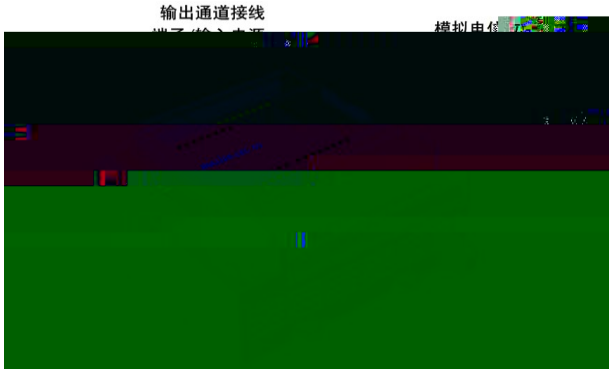
CPU PLC

2.1

2.1.1 CPU

2.1.1 CPU

/



2.1.1 CPU

RUN/STOP CPU

CPU

RS232/RS485

I/O

I/O

2.1.2 CPU

LM PLC CPU CPU I/O

DI DO CPU

24VDC 220VAC 2.1.1 CPU

2.1.1 CPU

	LM3104	**LM3105**	**LM3106/ LM3106A**	**LM3107**	**LM3107E**	**LM3108**	**LM3109**
	DC24V	AC220V	DC24V	AC220V	AC220V	DC24V	AC220V
DI	8 DC24V	8 DC24V	14 DC24V	14 DC24V	12 DC24V	24 DC24V	24 DC24V
DO	6×	6×	10×	10×	8×	16×	16×
AI	-	-	-	-	2×	-	-
AO	-	-	-	-	1×	-	-
24VDC	300mA	200mA	300mA	200mA		400mA	
	120K						
	512						
	512						
M	8K						
N	24K						
	6K						
	(1ms 49)						
	10						
	10						
	0.37 s( )						
	IEC61131-3 (LD) (IL) (FBD) (SFC) (ST) (CFC)						
	340						
	47						
	RS232					RS232 RS485	
( )	2		4				
( )	2		4				
	3 100KHz						
	2 100KHz						
( )	1		2				
	PTO PWM						
	20KHz(LM3106A PWM 100KHz PTO 50KHz)						
	2		4			7	
	125mm(L) 90mm(W) 70mm(H)					200mm(L) 90mm(W) 70mm(H)	

2.1.3

LM CPU RUN/STOP

2.1.2

16 CPU

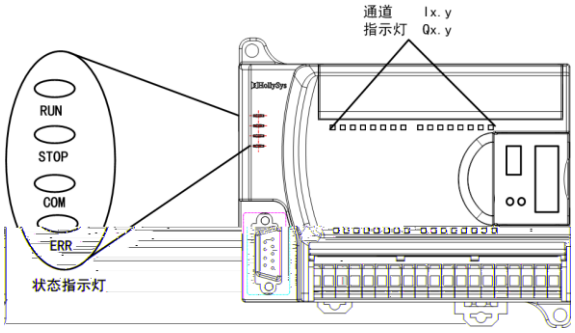
2.1.2 “RUN/STOP ”

RUN	CPU
STOP	CPU

2.1.4

CPU 2.1.2

CPU



2.1.2 CPU

LM CPU 2.1.3

2.1.4 CPU

	1 2
	RS232/RS485
	38400bps
	/MODBUS RTU/

2.2 8 /6 CPU LM3104

2.2.1

2.2.1 LM3104

	LM3104
CPU	

I/O

	0 30VDC
1	15 30VDC 3mA
0	0 5VDC 1mA
	<0.6ms( )
	1
	500VAC
	24VDC
	20.4 28.8VDC
	<0.5V(1 1A)
( )	<0.2
1	1A
0	1mA
	<4A
	2
	500VAC
(0 1 1 0)	<1ms <10us
	125mm(L) 90mm(W) 70mm (H)
	310g
	0 55
	-40 +70
	5 95%( )

2.2.2 LM3104

LM3104 24V (DO)

LM3104

(DI) 1M DI 1M 24VDC
DI
(DO) 1L+ 1L- 24VDC 2L+ 2L-
( )24VDC
VI+ VI- CPU 24VDC ⏚
VO+ VO- CPU 24VDC
*

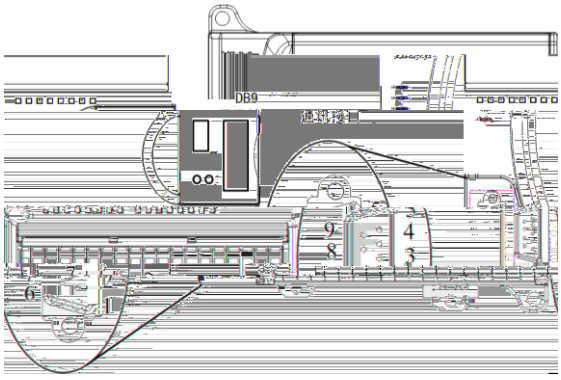
LM3104

2.2.2 LM3104

1L-	GND	**1M**	
1L+	+24VDC	**I0.0**	/
Q0.0		**I0.1**	/
Q0.1		**I0.2**	/
Q0.2		**I0.3**	/
Q0.3	/	**I0.4**	/
Q0.4		**I0.5**	/
2L-	GND	**I0.6**	/ / /
2L+	+24VDC	**I0.7**	/ /
Q0.5		*	
*		*	
*		*	
*		*	
*		*	
*		*	
⏚		*	
VI-	24VDC	*	
VI+	24VDC	**VO-**	24VDC
		VO+	24VDC

2.2.3 LM3104

CPU RS232 2.2.2
PLC PC
2.2.3 LM3104 RS232 9 D



2.2.2 LM3104

2.2.3 9 D

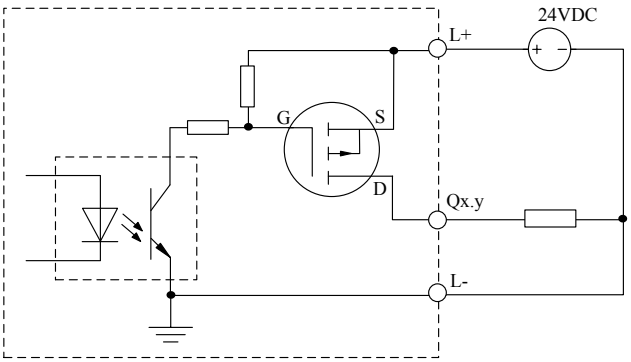
1	-	6	-
2	RXD	7	-
3	TXD	8	-
4	-	9	-
5	GND		

2.2.4 LM3104

DI **2.2.3**

2.2.3 LM3104

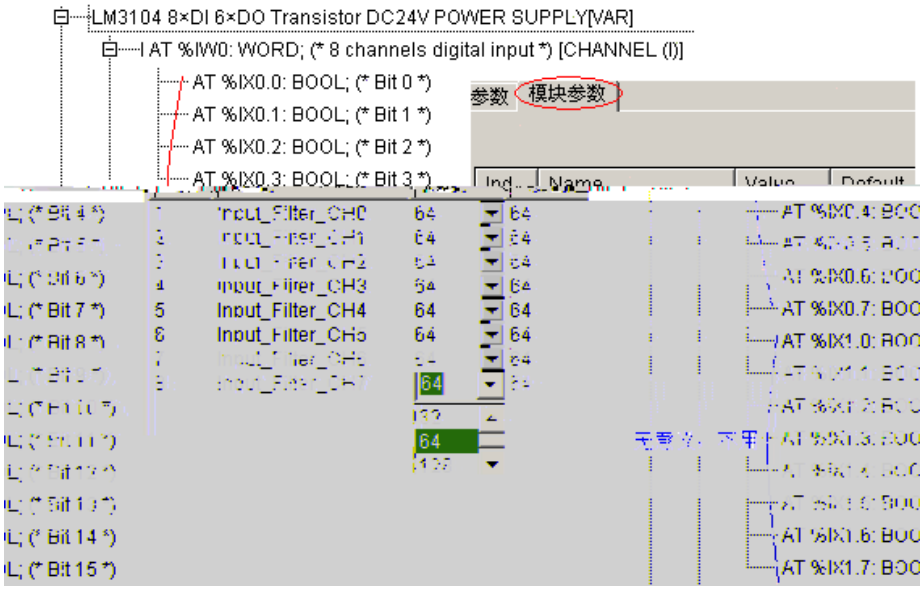
DO **2.2.4**



2.2.4 LM3104

2.2.5 LM3104

PowerPro LM3104 PLC 2.2.5



2.2.5 LM3104

Input_Filter_CH0 LM3104 1

I0.0 No_Filter 2 4 8 16 32 64 128 8

No_Filter 2 PLC 1 1

0

2.3 8 /6 CPU LM3105

2.3.1

2.3.1 LM3105

	LM3105
CPU	
I/O	8

		220VAC@50Hz
		187 242VAC@50Hz
	(MAX)	120mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	260mA
	+24VDC( )	200mA
	+5VDC( )	800mA
		400mA 24VDC
		1 RS232
		/MODBUS RTU /
		/
		24VDC
		0 30VDC
1		15 30VDC 3mA
0		0 5VDC 1mA
		<0.6ms( )
		1
		500VAC
		24VDC 24 230VAC
		5 30VDC 5 250VAC
		<10A
		2A
		10mA(5VAC 5VDC)
		<0.2
		2
		3000VAC 1 1mA
		750VAC 1 1mA
( )		100M (500VDC)
		<10ms
( )		1Hz
		10,000,000 2A 100,000
		125mm(L) 90mm(W) 70mm (H)
		350g
		0 55
		-40 +70
		5 95%( )

2.3.2 LM3105

LM3105 AC220V DO DI

2.3.1 CPU AC220V

24VDC

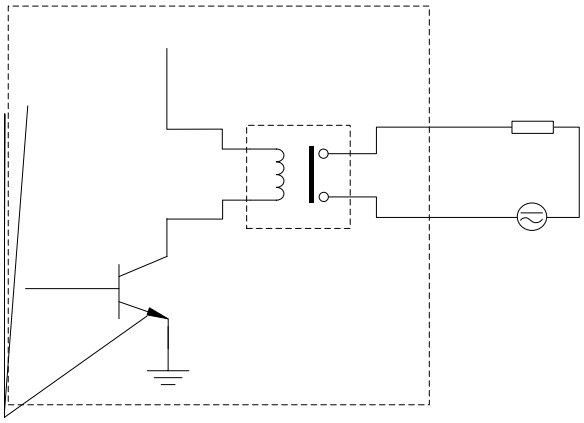
2.3.3 LM3105

LM3105 9 D LM3104 2.2.3

2.3.4 LM3105

DI LM3104 2.2.3

DO 2.3.2



2.3.2 LM3105

2.3.5 LM3105

LM3105 LM3104 2.2.5

2.4 14 /10 CPU LM3106

2.4.1

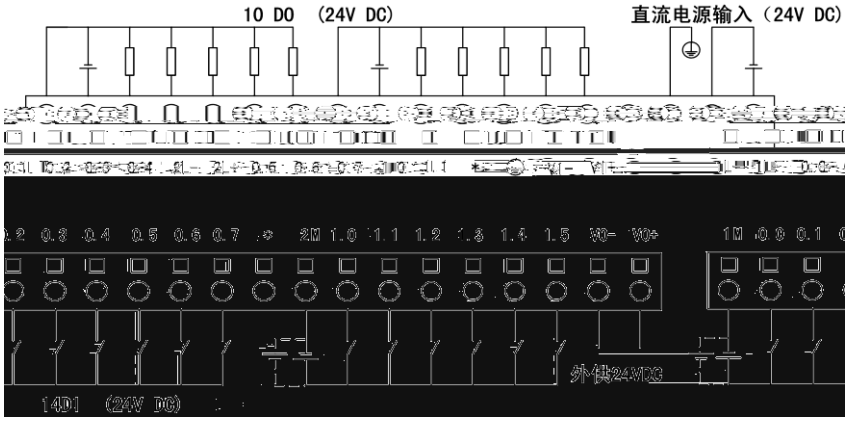
2.4.1 LM3106

	LM3106
CPU	
I/O	14 24VDC /10
	4
	3 100KHz 2 100KHz
	2 20KHz
	4
	4
	2 0 255
	120K
	6K
	(1ms)
	(16)
	340
	47
	0.37 s( )
	24VDC

		21 27VDC
	(MAX)	1300mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	300mA
	+24VDC( )	300mA
	+5VDC( )	800mA
		400mA 24VDC
		1 RS232
		/MODBUS RTU /
		/
		24VDC
		0 30VDC
1		15 30VDC 3mA
0		0 5VDC 1mA
		<0.6ms( )
		2
		500VAC
		24VDC
		20.4 28.8VDC
		<0.5V(1 1A)
( )		<0.2
1		1A
0		1mA
		<4A
		2
		500VAC
(0 1 1 0)		<1ms <10us
		125mm(L) 90mm(W) 70(H)
		310g
		0 +55
		-40 +70
		5 95%( )

2.4.2 LM3106

LM3106 24V DO DI 2.4.1 CPU 24VDC 24VDC



2.4.1 LM3106

LM3106

DI 1M 2M DI M 24VDC

DI

DO 1L+ 1L- 24VDC 2L+ 2L-

24VDC

VI+ VI- CPU 24VDC ⏚

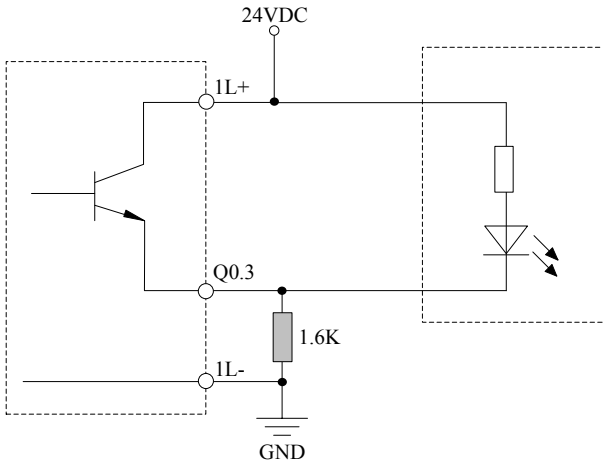
VO+ VO- CPU 24VDC

2.4.2 2.4.3 1.6K

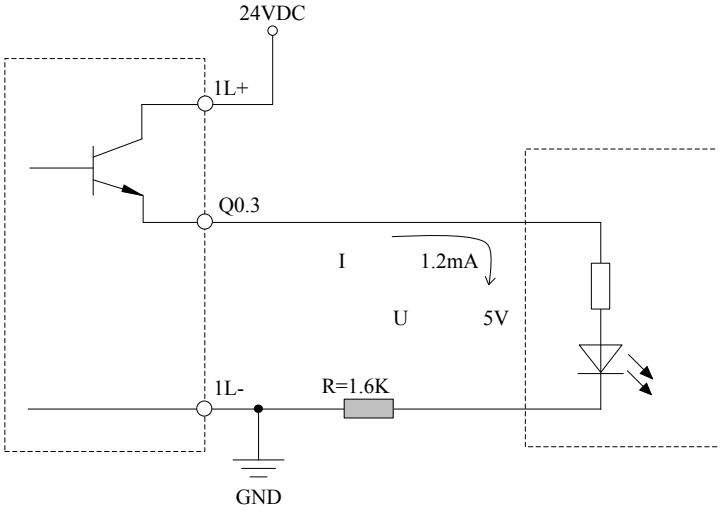
5V 12mA 2.4.2

2.4.3

*



2.4.2 LM3106 1(Q1.1)



2.4.3 LM3106 2(Q1.1)

LM3106

2.4.2 LM3106

1L-	GND	**1M**	
1L+	+24VDC	**I0.0**	/
Q0.0		**I0.1**	/
Q0.1		**I0.2**	/
Q0.2		**I0.3**	/
Q0.3	/	**I0.4**	/
Q0.4		**I0.5**	/
2L-	GND	**I0.6**	/ / /
2L+	+24VDC	**I0.7**	/ /
Q0.5		*****	
Q0.6		**2M**	
Q0.7		**I1.0**	/ /
Q1.0		**I1.1**	/ /
Q1.1	/	**I1.2**	
*****		**I1.3**	

2.4.4 LM3106

DI **LM3104** **2.2.3**

DO **LM3104** **2.2.4**

2.4.5 LM3106

LM3106 LM3104 2.2.5

2.5 14 /10 LM3106A

LM3106A

2.5.1

2.5.1 LM3106A

		LM3106A
CPU		
I/O		14 24VDC 10
		4
		3 100KHz 2 100KHz
		2 PWM(100KHz) PTO(50KHz)
		4
		4
		2 0 255
		120 K
		6 K
		(1ms)
		(16)
		340
		47
		0.37 s( )
		24VDC
		21 27VDC
	(Max.)	1300mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	300mA
	+24VDC( )	300mA
	+5VDC( )	800mA
		400mA 24VDC
		1 RS232
		/MODBUS RTU /
		/
		24VDC
		0VDC 30VDC

1 15 30VDC 3mA8001 11.52 ref* EMC 85.473 79

VI+ VI- 24VDC

VO+ VO- CPU 24VDC

2.5.2 2.5.3 2.5.3 L+ 24V

5V 2.5.2 L+ 24VDC

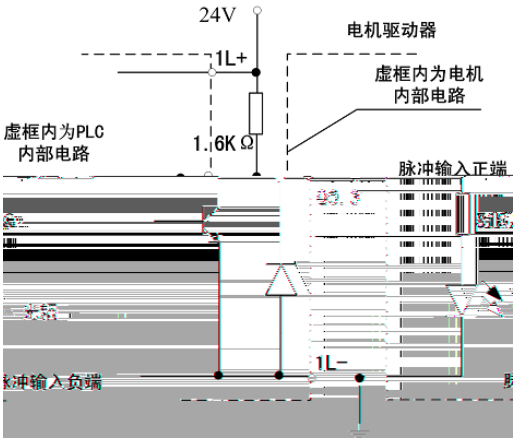
15mA

100mA 1.6K 2.5.2

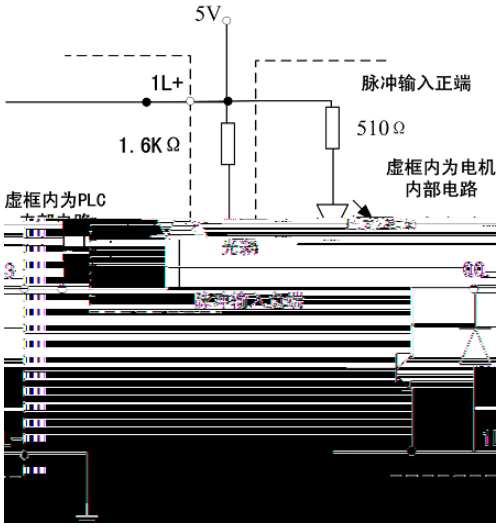
Q0.3 1 Q0.3 0

2.5.3 L+ 5VDC

*



2.5.2 LM3106A 1 Q1.1



2.5.3 LM3106A 2 Q1.1

LM3106A

2.5.2 LM3106A

1L-	GND	**1M**	
1L+	5 24VDC	**I0.0**	/
Q0.0		**I0.1**	/
Q0.1		**I0.2**	/
Q0.2		**I0.3**	/
Q0.3	/	**I0.4**	/

Q0.4		**I0.5**	/
2L-	GND	**I0.6**	/ / /
2L+	5 24VDC	**I0.7**	/ /
Q0.5		*****	
Q0.6		**2M**	
Q0.7		**I1.0**	/ /
Q1.0		**I1.1**	/ /
Q1.1	/	**I1.2**	
*****		**I1.3**	
⏚		**I1.4**	

		4
		2 0 255
		120 K
		6 K
		(1ms)
		(16)
		340
		47
		0.37 s( )
		220VAC@50Hz
		187 242VAC@50Hz
	(MAX)	120mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	260mA
	+24VDC( )	200mA
	+5VDC( )	800mA
		400mA 24VDC
		1 RS232
		/MODBUS RTU /
		/
		24VDC
		0VDC 30VDC
1		15 30VDC 3mA
0		0 5VDC 1mA
		<0.6ms( )
		2
		500VAC
		24VDC 24 230VAC
		5 30VDC 5 250VAC
		<10A
		2A
		10mA(5VAC 5VDC)
		<0.2
		3
		3000VAC 1 1mA

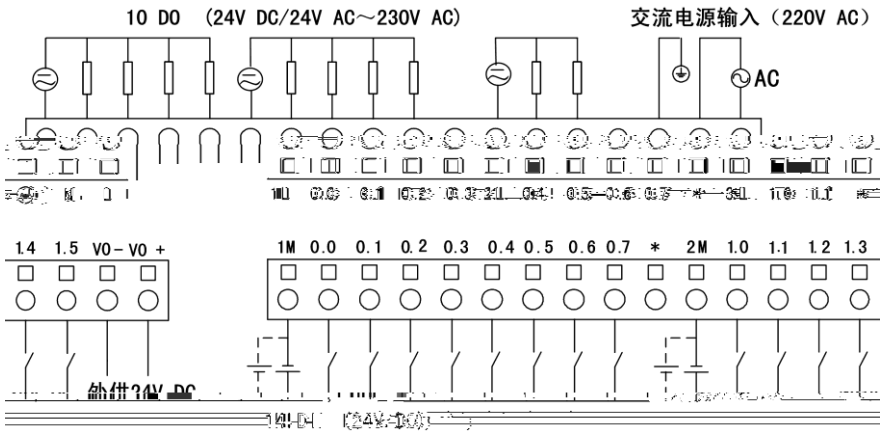
	5 95%( )

2.6.2 LM3107

LM3107 AC220V DO DI

2.6.1 CPU AC220V

24VDC



2.6.1 LM3107

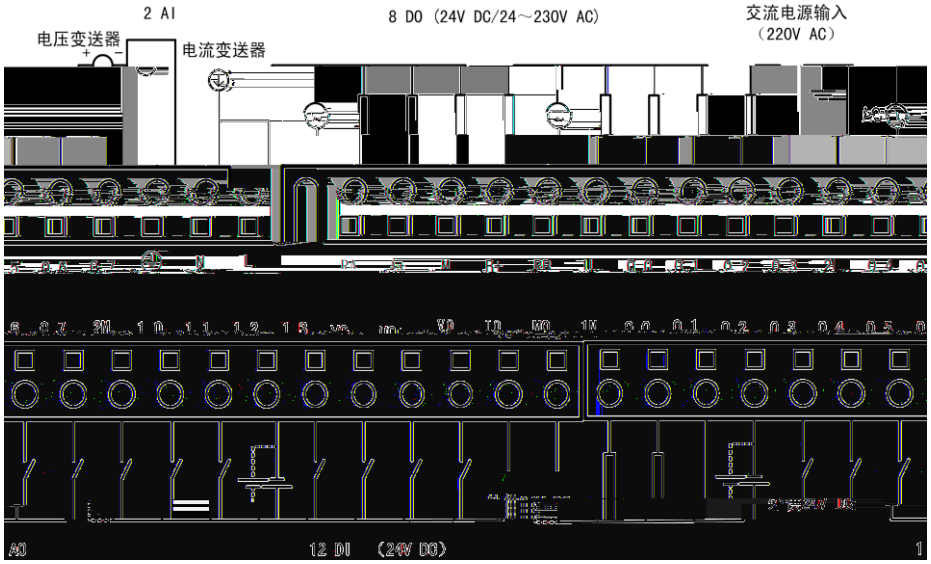
LM3107

DI 1M 2M DI M 24VDC

DI

(DO) 1L 2L 3L

*		2M	
3L		I1.0	/ /
Q1.0		I1.1	/ /
Q1.1		I1.2	
*		I1.3	
⏚		I1.4	
N		I1.5	
L			



2.7.1 LM3107E

(DI) 1M 2M DI 1M 2M
24VDC DI
(DO) 1L 2L
24VDC 24~230VAC
V0 I0 M0 1 RA A+ RB B+ M 2
A+ M B+ M RA A+ RB B+
L N CPU 220VAC

VO+ VO-

2.7.3 LM3107E

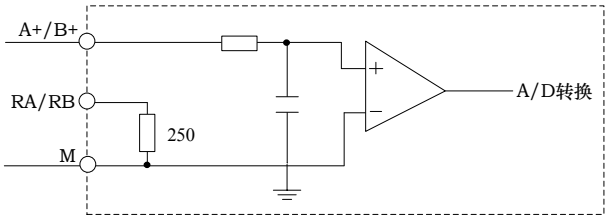
LM3107E 9 D LM3104 2.2.3

2.7.4 LM3107E

DI LM3104 2.2.3

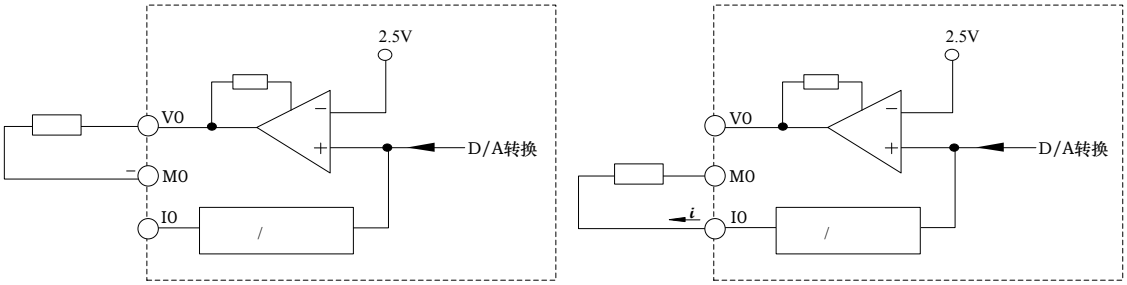
DO LM3105 2.3.2

AI 2.7.2



2.7.2 LM3107E AI

AO 2.7.3



2.7.3 LM3107E AO

2.7.5 LM3107E

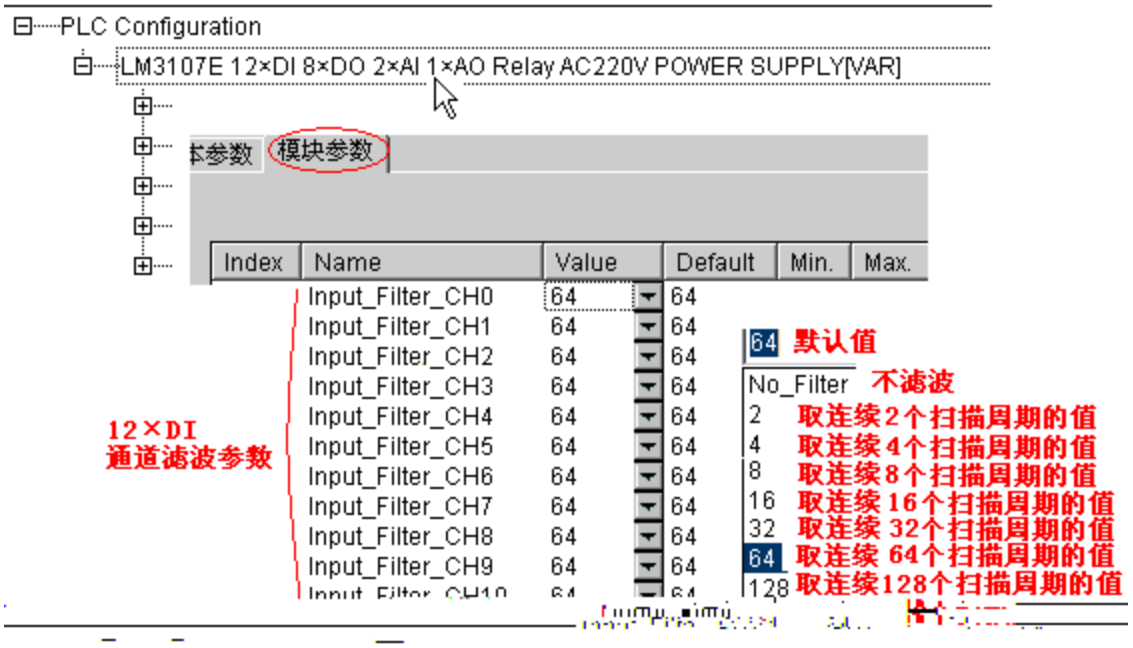
2.7.4 PowerPro LM3107E

CH0~CH11 Input_Fliter_CH0~ Input_Fliter_CH11

1~12 DI No_Filter 2 4 8 16 32 64 128 8

4 4

1 1 0



2.7.5 LM3107E

AI 2.7.6

XFactor 0~20mA 0~10V

0~20mA

Filter_Factor 1 2 4 8 16 32

RC 2.7.3

Channel_Enable Enable Disable

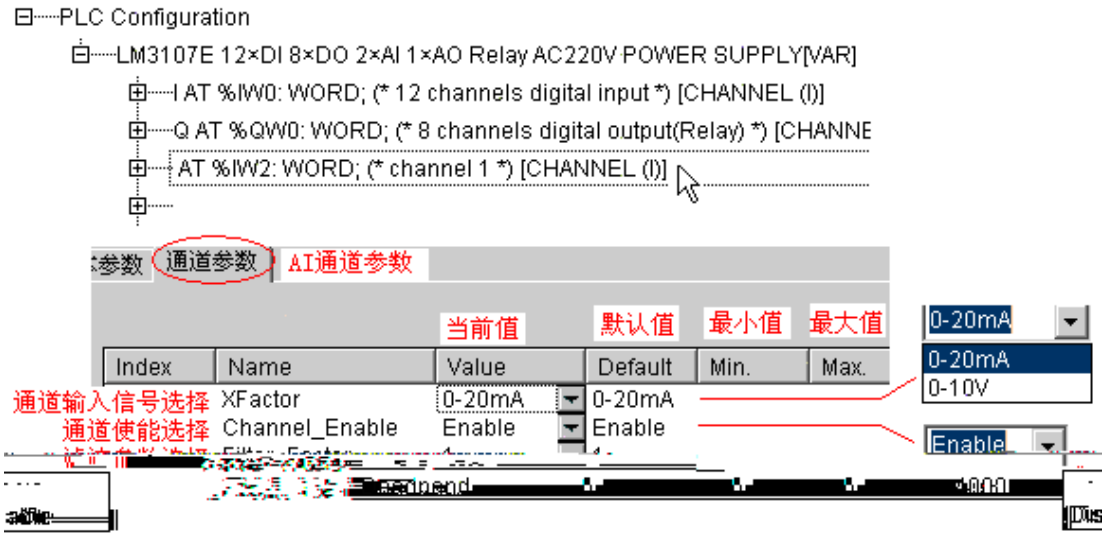
Enable

Deadband 0 ~4080

LM3107E 0

2.7.3 RC

1	
2	80ms
4	160ms
8	320ms
16	640ms
32	1280ms

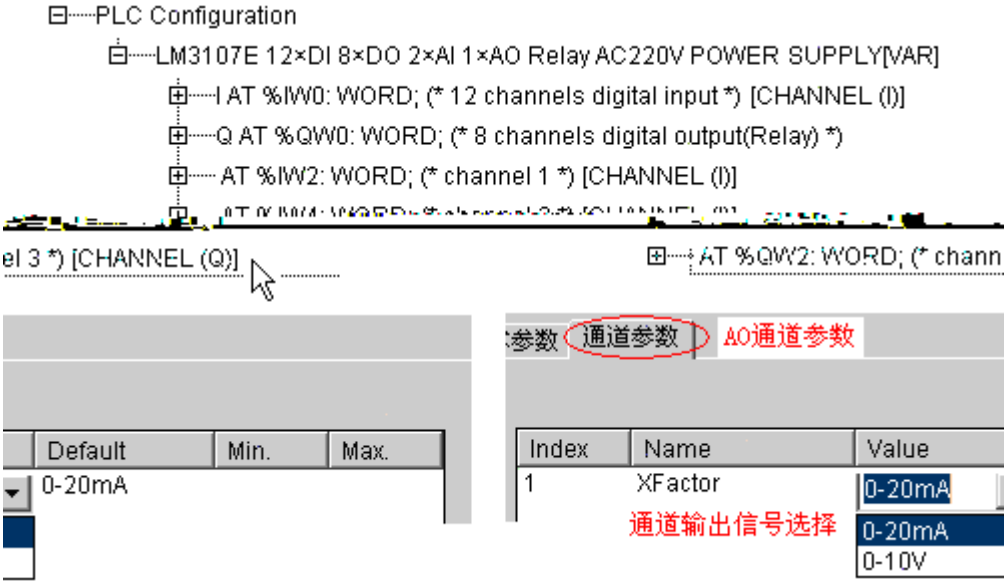


2.7.6 LM3107E AI

AO 2.7.7 AO

XFactor 0~20mA 0~10V

0~20mA



2.7.7 LM3107E AO

2.8 24 /16 CPU LM3108

2.8.1

2.8.1 LM3108

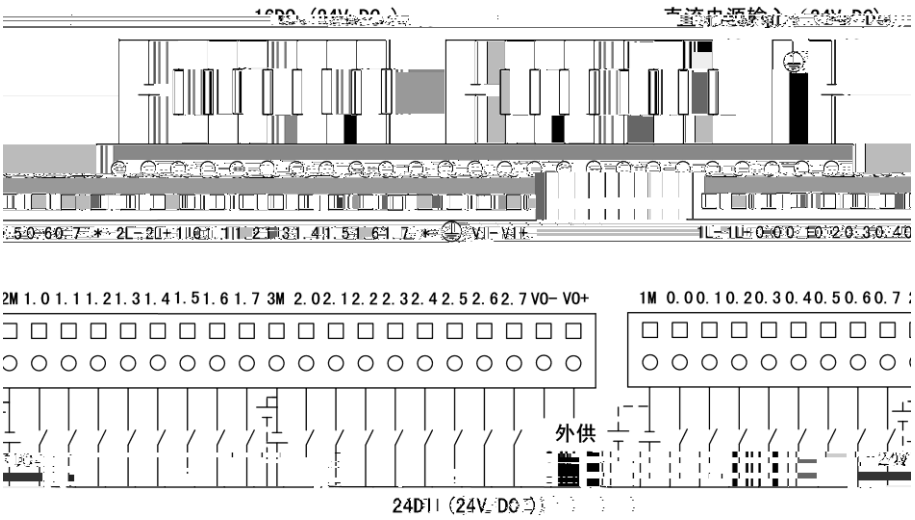
	LM3108
CPU	
I/O	24 24VDC /16
	7
	3 100KHz 2 100KHz

2

		4
		4
		2 0 255
		120K
		6K
		(1ms)
		(16)
		340
		47
		0.37 s( )
		24VDC
		21 27VDC
	(MAX)	1500mA 24VDC

2.8.2 LM3108

LM3108 24V DO DI
2.8.1 CPU 24VDC
24VDC

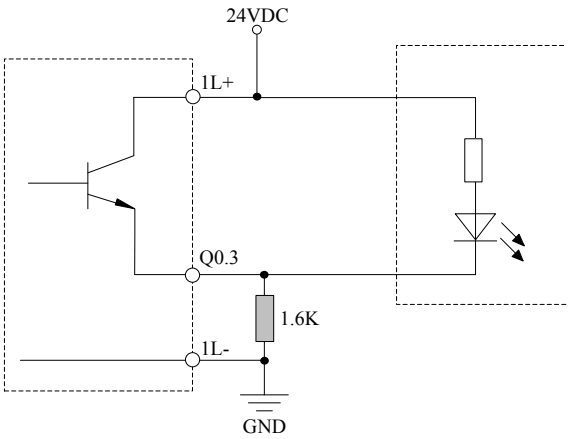


2.8.1 LM3108

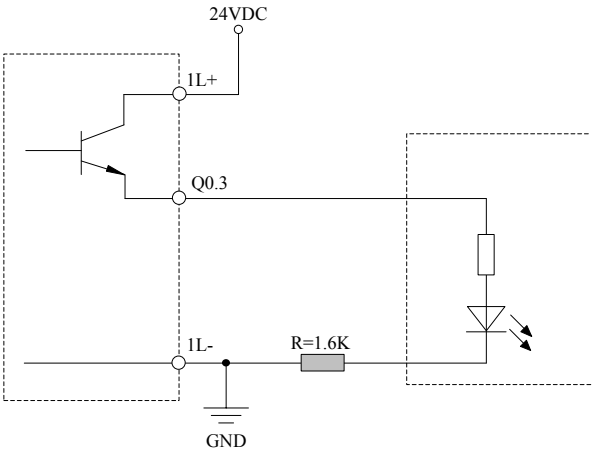
LM3108

DI 1M 2M 3M DI M
24VDC DI
DO 1L+ 1L- 24VDC
2L+ 2L- 24VDC
VI+ VI- 24VDC ⏚
VO+ VO- CPU 24VDC
2.8.2 2.8.3 1.6K
2.8.2
2.8.3

*



2.8.2 LM3108 1(Q1.1)



2.8.3 LM3108 2(Q1.1)

LM3108

2.8.2 LM3108

1L-	GND	**1M**	
1L+	+24VDC	**I0.0**	/
Q0.0		**I0.1**	/
Q0.1		**I0.2**	/
Q0.2		**I0.3**	/
Q0.3	/	**I0.4**	/
Q0.4		**I0.5**	/
Q0.5		**I0.6**	/ / /
Q0.6		**I0.7**	/ /
Q0.7		**2M**	
*****		**I1.0**	/ /
2L-	GND	**I1.1**	/ /
2L+	+24VDC	**I1.2**	
Q1.0		**I1.3**	
Q1.1	/	**I1.4**	

PORT1 RS232 RS232 PLC PC
RS485 PLC 2.8.3 2.8.4
RS232 RS485 9 D

2.8.4 LM3108

2.8.3 RS232 9 D

1		6	
2	RXD	7	
3	TXD	8	
4		9	
5	GND		

2.8.4 RS485 9 D

1		6	
2		7	
3	B RxD/TxD+	8	A RxD/TxD-
4		9	
5			

2.8.4 LM3108

DI **LM3104** **2.2.3**

DO **LM3104** **2.2.4**

2.8.5 LM3108

LM3108 LM3104 2.2.5

2.9 24 /16 CPU LM3109

2.9.1

2.9.1 LM3109

	LM3109
CPU	
I/O	24 24VDC /16
	7
	3 100KHz 2 100KHz

		4
		4
		2 0 255
		120K
		6K
		(1ms)
		(16)
		340
		47
		0.37 s( )
		220VAC@50Hz
		187 242VAC @50Hz
	(Max.)	200mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	320mA
	+24VDC( )	400mA
	+5VDC( )	1300mA
		900mA 24VDC
		1 RS232 1 RS485
		(RS232)/MODBUS RTU /
		/
		24VDC
		0 30VDC
1		15 30VDC 3mA
0		0 5VDC 1mA
		<0.6ms( )
		3
		500VAC
		24VDC 24 230VAC
		5 30VDC 5 250VAC
		<10A
		2A
		10mA(5VAC 5VDC)
		<0.2
		4
		3000VAC 1 1mA
		750VAC 1 1mA
( )		100M (500VDC)
		<10ms
( )		1Hz
		10,000,000 2A 100,000
		200mm(L) 90mm(W) 70mm (H)
		550g
		0 +55

	-40 +70
	5 95%( )

2.9.2 LM3109

LM3109 AC220V DO DI 2.9.1 CPU AC220V 24VDC

LM3109

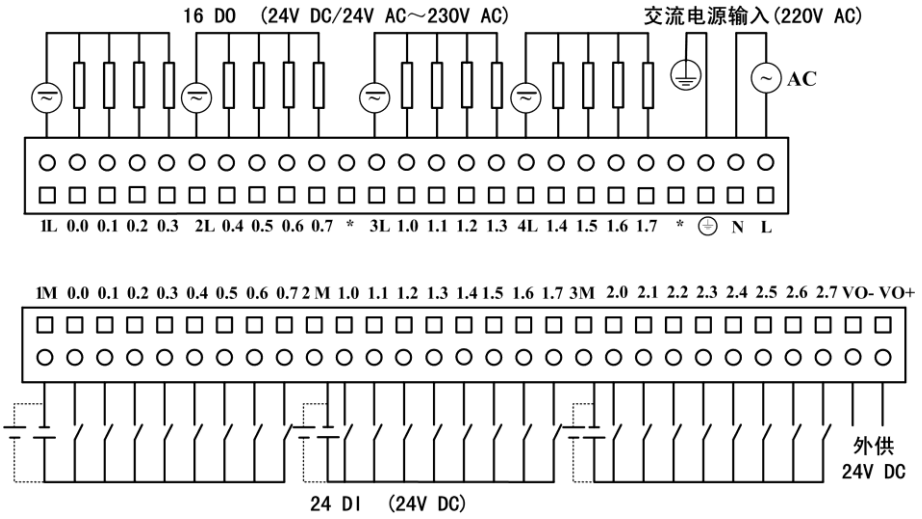
DI 1M 2M 3M DI M 24VDC DI

DO 1L 2L 3L 4L

L N 220VAC

VO+ VO CPU 24VDC

*



2.9.1 LM3109

LM3109

2.9.2 LM3109

1L		**1M**	
Q0.0		**I0.0**	/
Q0.1		**I0.1**	/
Q0.2		**I0.2**	/
Q0.3		**I0.3**	/
2L		**I0.4**	/
Q0.4		**I0.5**	/
Q0.5		**I0.6**	/

			/ /
Q0.6		**I0.7**	/ /
Q0.7		**2M**	
*		**I1.0**	/ /
3L		**I1.1**	/ /
Q1.0		**I1.2**	
Q1.1		**I1.3**	
Q1.2		**I1.4**	
Q1.3		**I1.5**	
4L		**I1.6**	
Q1.4		**I1.7**	
Q1.5		**3M**	
Q1.6		**I2.0**	
Q1.7		**I2.1**	
*		**I2.2**	
		I2.3	
N		**I2.4**	
L		**I2.5**	
		I2.6	
		I2.7	
		VO-	24VDC
		VO+	24VDC

2.9.3 LM3109

CPU RS232 RS485 LM3109 9 D

LM3108 2.8.3 2.8.4

2.9.4 LM3109

DI **LM3104** **2.2.3**

DO **LM3105** **2.3.2**

2.9.5 LM3109

LM3109 LM3104 2.2.5

2.10 24 /16 CPU LM3109H

2.10.1

2.10.1 LM3109H

	LM3109
CPU	
I/O	24 24VDC /16
	7
	2 0 255
	120K

		6K
		(1ms)
		(16)
		340
		47
		0.37 s( )
		220VAC@50Hz
		187 242VAC @50Hz
	(Max.)	200mA
		24VDC
		22.8 25.2VDC
	+24VDC( )	320mA
	+24VDC( )	400mA
	+5VDC( )	1300mA
		900mA 24VDC
		1 RS232 1 RS485
		(RS232)/MODBUS RTU /
		/
		24VDC
		0 30VDC
1		15 30VDC 3mA
0		0 5VDC 1mA
		<0.6ms( )
		3
		1500VAC@1min.
		24VDC 24 230VAC
		5 30VDC 5 250VAC
		<10A
		2A
		10mA(5VAC 5VDC)
		<0.2
		4
		3000VAC 1 1mA
		750VAC 1 1mA
( )		100M (500VDC)
		<10ms
( )		1Hz

10,000,000

2A 100,000

2.10.2 LM3109H

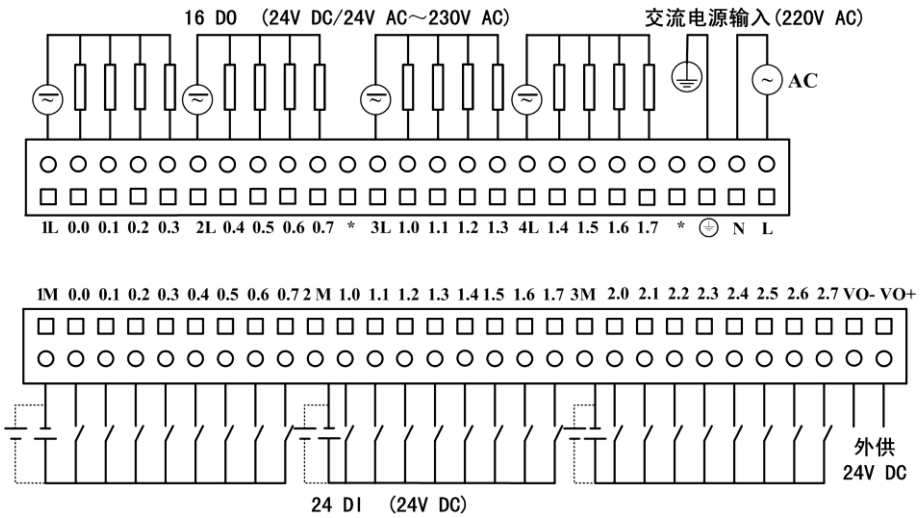
LM3109H AC220V DO DI
2.9.1 CPU AC220V
24VDC

LM3109

DI 1M 2M 3M DI M 24VDC
DI
DO 1L 2L 3L 4L

L N 220VAC
VO+ VO CPU 24VDC

*



10.1 LM3109H

LM3109H

2.10.2 LM3109

1L		**1M**	
Q0.0		**I0.0**	
Q0.1		**I0.1**	
Q0.2		**I0.2**	
Q0.3		**I0.3**	
2L		**I0.4**	
Q0.4		**I0.5**	
Q0.5		**I0.6**	
Q0.6		**I0.7**	
Q0.7		**2M**	
*		**I1.0**	

3L		**I1.1**	
Q1.0		**I1.2**	
Q1.1		**I1.3**	
Q1.2		**I1.4**	
Q1.3		**I1.5**	
4L		**I1.6**	
Q1.4		**I1.7**	
Q1.5		**3M**	
Q1.6		**I2.0**	
Q1.7		**I2.1**	
*****		**I2.2**	
		I2.3	
N		**I2.4**	
L		**I2.5**	
		I2.6	
		I2.7	
		VO-	24VDC
		VO+	24VDC

2.10.3 LM3109H

CPU RS232 RS485 LM3109H 9 D

LM3108 2.8.3 2.8.4

2.10.4 LM3109H

DI **LM3104** **2.2.3**

DO **LM3105** **2.3.2**

2.10.5 LM3109H

LM3109H LM3109 PowerPor PLC LM3109

LM3109H LM3109 LM13109H

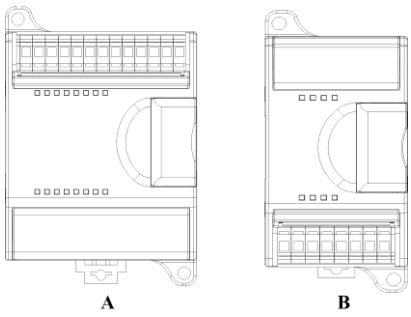
3

LM PLC 3.1

3.1

	LM3210	8	DI 8 DC24V
	LM3212	16	DI 16 DC24V
	LM3220	8	DO 8 DC24V
	LM3221	16	DO 16 DC24V
	LM3222	8	DO 8
	LM3223	16	DO 16
	LM3230	4 /4	DI 4 DC24V/DO 4 DC24V
	LM3231	4 /4	DI 4 DC24V/DO 4
	LM3233	8 /8	DI 8 DC24V/DO 8
	LM3310	4	4 20mA/0 20mA/0 10V
	LM3310B	4	0 20mA/0 100mV/500mV/1V/5V/10V
	LM3311	4	J K E N T B R S TC -80 80mV
	LM3312	4	Cu50 Pt100 RTD
	LM3313	8	-10 10V/-20 20mA
	LM3320	2	0 20mA/0 10V
	LM3330	4 /1	4 20mA/0 20mA/0 10V 0 20mA/0 10V
	LM3401	PROFIBUS-DP	
	LM3403		

3.1 A B I/O



3.1 LM PLC

3.1

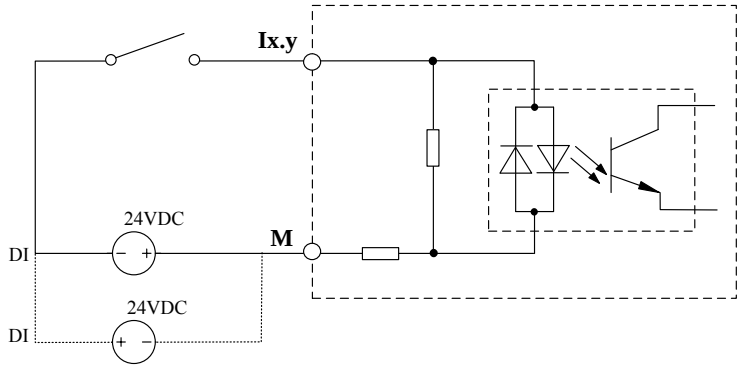
3.1.1 8 LM3210

LM3210 24VDC

3.1.1 LM3210

		LM3210	
	8		50mm(L) 90mm(W) 70mm(H)
	/		110g

DI 3.1.2



3.1.2 LM3210

3.1.2 16 LM3212

LM3212 24VDC

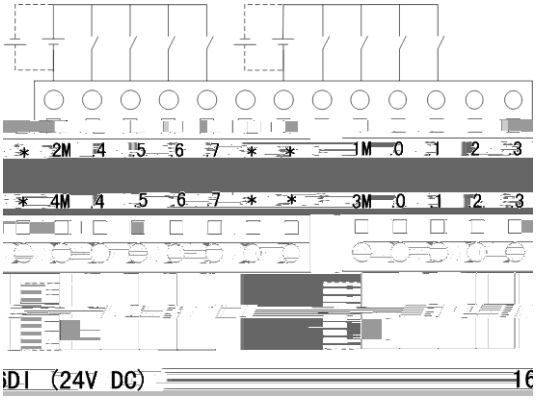
3.1.3 LM3212

		LM3212		
	16			75mm(L) 90mm(W) 70mm(H)
	/			160g
	24VDC		+24VDC ( )	0mA
	0 30VDC			
1	15 30VDC 3mA		+24VDC ( )	80mA
0	0 5VDC 1mA			
	<10ms( )		+5VDC ( )	90mA
	4			0 +55
	500VAC			-40 +70
				5 95%

3.1.4 LM3212

( )	

16 LM3212 3.1.3



3.1.3 LM3212

DI 1M 2M 3M 4M DI M
24VDC DI
*

DI LM3210 3.1.2

3.1.3 8 LM3220

LM3220 24VDC

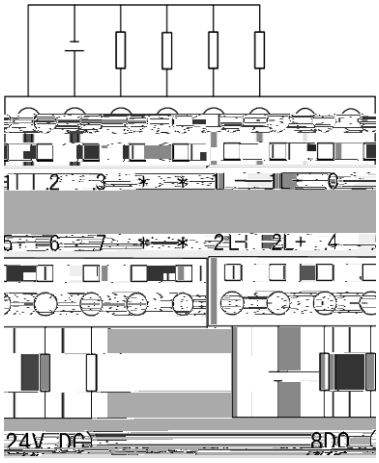
3.1.5 LM3220

		LM3220		
	8			50mm(L) 90mm(W) 70mm(H)
				120g
	24VDC		+24VDC ( )	0mA
	20.4 28.8VDC			
	<0.5V(1 1A)		+24VDC ( )	
1	1A			
0	1mA		+5VDC ( )	100mA
	<4A			
	<8A 100ms			0 +55
	<0.2			-40 +70
				5 95%
0 1	<1ms			
1 0	<1ms			
	500VAC			2

3.1.6 LM3220

( )	

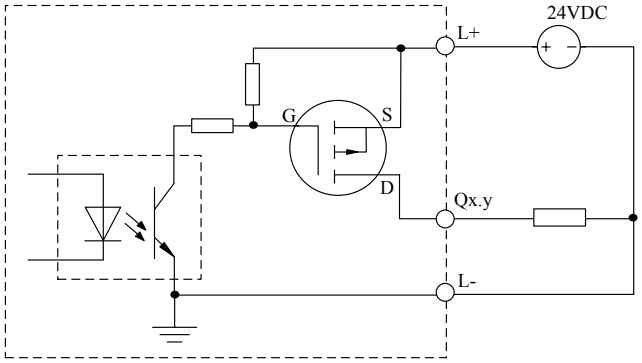
8 LM3220 3.1.4



3.1.4 LM3220

DO 1L+ 1L- 24VDC
2L+ 2L- 24VDC
*

DO 3.1.5



3.1.5 LM3220 (DO)

3.1.4 16 LM3221

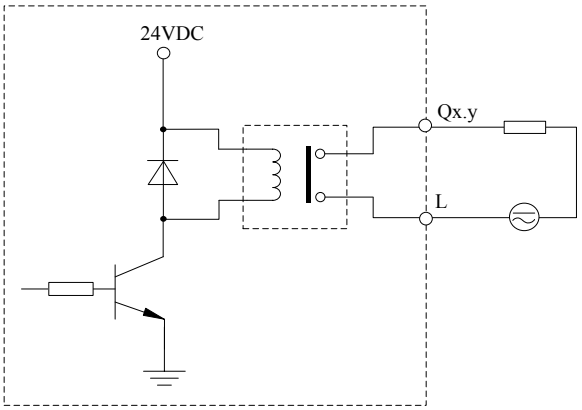
LM3221 24VDC

3.1.7 LM3221 +

		LM3221		
	16			75mm(L) 90mm(W) 70 mm (H)
				170g
	24VDC		+24VDC ( )	0mA
	20.4 28.8VDC <0.5V(1 1A)		+24VDC ( )	

	<4A		( )	
	<8A 100ms			0 +55
	<0.2			-40 +70
				5 95%

0 1 <1ms



3.1.8 LM3222 DO

3.1.6 16 LM3223

LM3223 24VDC 220VAC

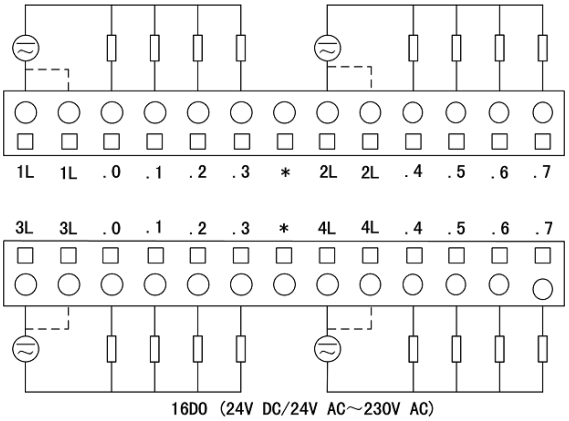
3.1.11 LM3223

		LM3223		
	16			75mm(L) 90mm(W) 70 mm (H)
				200g
	24VDC 24 230VAC		+24VDC ( )	80mA
	5 30VDC 5 250VAC			
	<10A		+24VDC ( )	
	2A			
	10mA(5VAC 5VDC)		+5VDC ( )	120mA
	4			0 +55
				-40 +70
	<0.2			5 95%
	750VAC 1 1mA			
	<10ms	( )		100M (500VDC)
( )	1Hz			10,000,000
	3000VAC 1 1mA			2A 100,000

3.1.12 LM3223

( )	

16 LM3223 3.1.



3.1.9 LM3223

DO 1L 2L 3L 4L

mL m=1 2 3 4 3.1.9

*

DO LM3222 3.1.8

3.1.7 4 /4 LM3230

LM3230 4 4

24VDC 24VDC

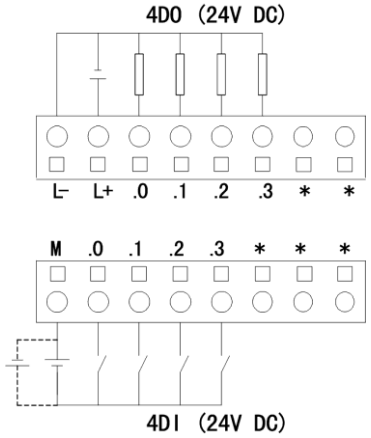
3.1.13 LM3230

		LM3230		
	4			50mm(L) 90mm(W) 70mm(H)
	/			120g
	24VDC		+24VDC( )	0mA
	0 30VDC		+24VDC( )	20mA
1	15 30VDC 3mA			
0	0 5VDC 1mA		+5VDC( )	90mA
	<10ms ( )			0 +55
				-40 +70
	1			5 95%
	500VAC			
	4	0		1mA
		1		1A
	24VDC			
	20.4 28.8VDC			<0.5V(1 1A)
				<8A 100ms
	1		0 1	<1ms
	500VAC		1 0	<1ms
		( )		<0.2

3.1.14 LM3230

( )	

4 /4 LM3230 3.1.0



3.1.8 4 /4 LM3231

LM3231 4 4
24VDC 220VAC

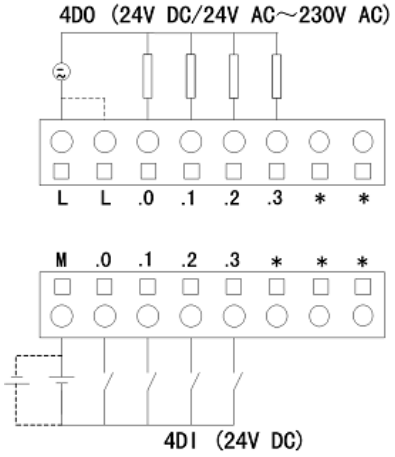
3.1.15 LM3231

		LM3231		
	4			50mm(L) 90mm(W) 70 mm (H)
	/			120g
	24VDC		+24VDC ( )	20mA
	0 30VDC			
1	15 30VDC 3mA		+24VDC ( )	20mA
0	0 5VDC 1mA		+5VDC ( )	90mA
	<10ms( )			0 +55
				-40 +70
	1			5 95%
	500VAC			
	4			<0.2
				1
	24VDC 24 230VAC			3000VAC 1 1mA
				750VAC 1 1mA
	5 30VDC 5 250VAC		( )	
	<10A			100M (500VDC)
				<10ms
	2A		( )	1Hz
	10mA(5VAC 5VDC)			10,000,000 2A 100,000

3.1.16 LM3231

( )	

4 /4 LM3231 3.1.1



3.1.11 LM3231

DI M DI M 24VDC
DI
DO L

L L 3.1.1
*

DI LM3210 3.1.2
DO LM3222 3.1.8

3.1.9 8 /8 LM3233

LM3233 8 8
24VDC 220VAC

3.1.3 LM3233 8

	LM3233	
8		50mm(L) 90mm(W) 70 mm (H)
/		

	8		<0.2
			2
	24VDC 24 230VAC		3000VAC 1 1mA
			750VAC 1 1mA
	5 30VDC 5 250VAC	( )	
	<10A		100M (500VDC)
			<10ms
	2A	( )	1Hz

10mA(5VAC 5VDC)

3.2

3.2.1 4 LM3310

LM3310 4

24VDC

3.2.1 LM3310

			LM3310		
		4			75mm(L) 90mm(W) 70mm(H)
		0 10V			170g
		0 20mA		+24VDC ( )	20mA
		4 20mA			
( )		0.5%FS@25		+5VDC ( )	100mA
		+ <13 V			0 +55
		>60dB(DC 50Hz)			-40 +70
		<200us			5 95%
		>1M ( ) 250 ( )			
		100ppm/			<30mA
		6ms/ 4			<30V
					500VAC

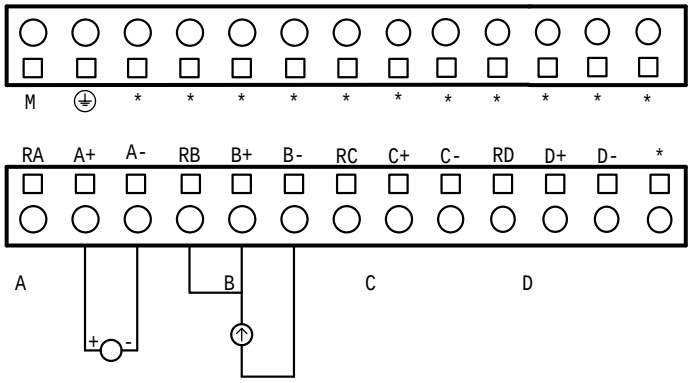
3.2.2 LM3310

	POWER

3.2.3

	0 10V	0 65535	0x0000 0xFFFF
	0 20mA	0 65535	0x0000 0xFFFF
	4 20mA	0 65535	0x0000 0xFFFF

4 LM3310 3.2.1



3.2.1 LM3310

M

M

⏚

3.2.1

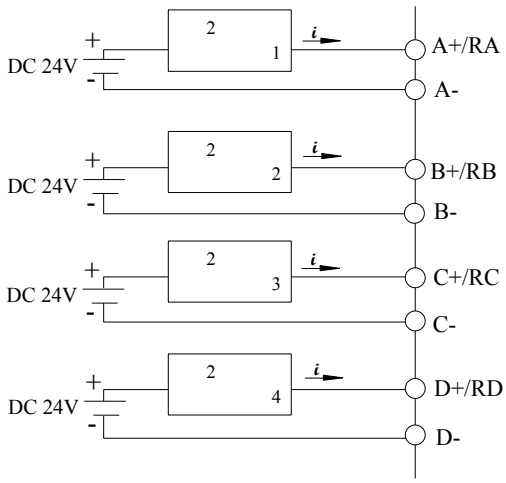
A+ A-

RA A+ A-

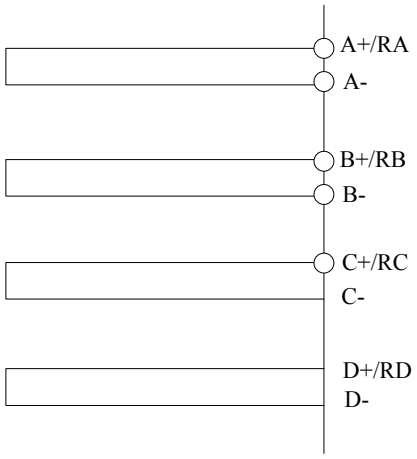
3.2.2 3.2.3 2 4 2

CPU 24VDC

*

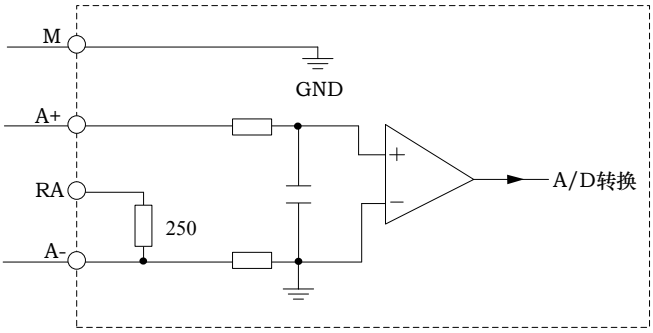


3.2.2 2



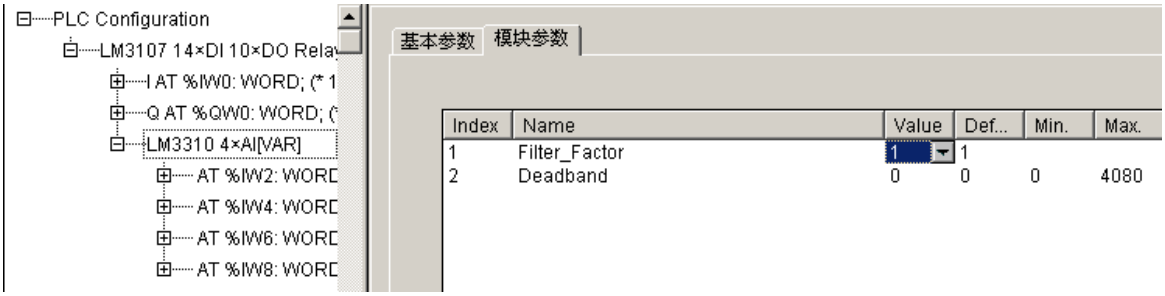
3.2.3 4

3.2.4



3.2.4 LM3310

PowerPro PLC LM3310 PLC 3.2.5



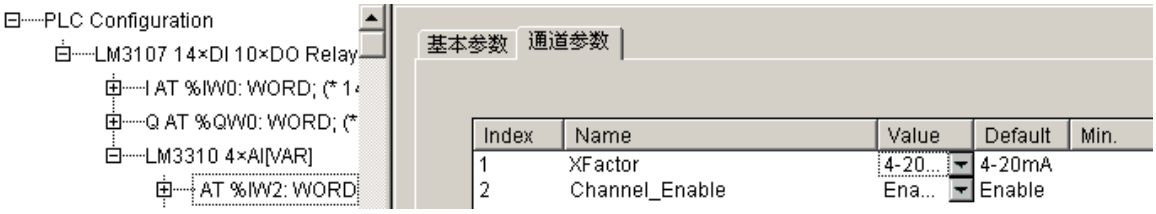
3.2.5 LM3310

LM3310 4 IW2 IW4 IW6 IW8

LM3310 1 2 3 4 LM3310 3.2.5 LM3310

Filter_Factor 1 2 4 8 16 32 RC

3.2.4



3.2.6 LM3310

XFactor 4-20mA 0-20mA
0-10V 4-20mA
Channel_Enable Enable

3.2.2 4 LM3310B

LM3310B LM3310 4 LM3310B
LM3310 16

3.2.5 LM3310B

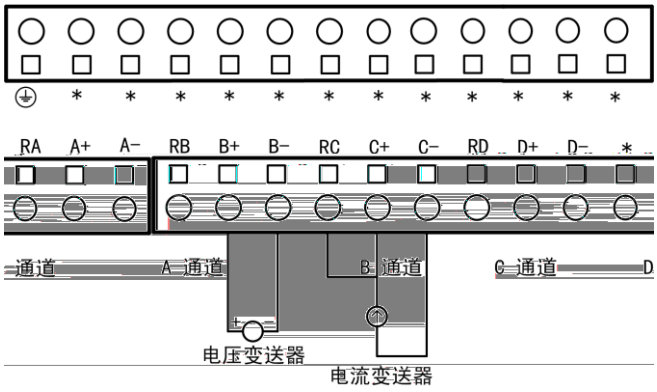
		LM3310B			
	4				75mm(L) 90mm(W) 70mm(H)
		0 20mA			170g
		0 100mV 500mV 1V 5V 10V		+24VDC ( )	0mA
( )		0 100mV 500mV 0.5%F.S. 0.2%F.S.		+24VDC ( )	30mA
				+5VDC ( )	100mA
		<200us			
		>1M ( ) 250 ( )			0 +55
		<30mA			-40 +70
		<30V			5 95%
(4)		50ms			
		100ppm/			500VAC@5mA 1min

3.2.6 LM3310B

	POWER

3.2.7

	0 100mV 500mV 1V 5V 10V	0 65535	0x0000 0xFFFF
	0 20mA	0 65535	0x0000 0



3.2.7 LM3310B

3.2.7

A+ A-

3.2.8 3.2.9 2 4

2

CPU 24VDC

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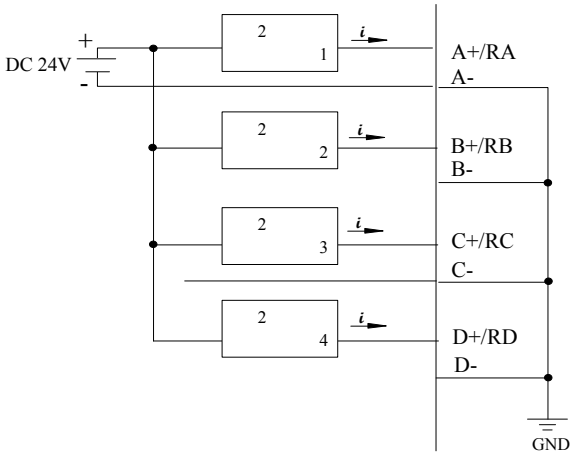
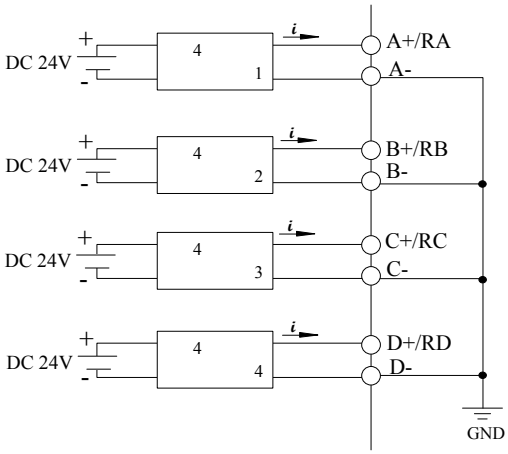
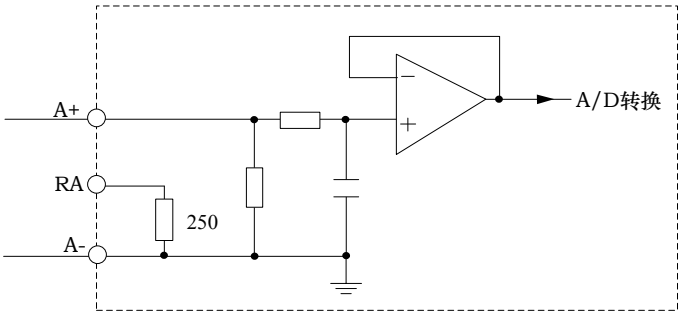


3.2.8 2 LM3310B



3.2.9 4 LM3310B

3.2.0



3.2.10 LM3310B

LM3310B LM3310B

LM3310 3.2.1

3.2.8 LM3310B

1	
2	1s
4	1.6s
8	2.8s
16	4.2s
32	4.2s

LM3310B LM3310B
LM3310

3.2.3 4 LM3311

LM3311 4

3.2.9 LM3311

		LM3311		
	4			75mm(L) 90mm(W) 70mm(H)
	J K T N E R S -80 80mV		+24VDC ( )	0mA
	0.1%FS@25 80mV			
	0.1		+5VDC ( )	
	1.5			100mA
	>1M			160g
	450ms(4)			0 +55
	50ppm/			-40 +70
				5 95%
	500VAC			
				70dB@50Hz 8 16 32

3.2.10 LM3311

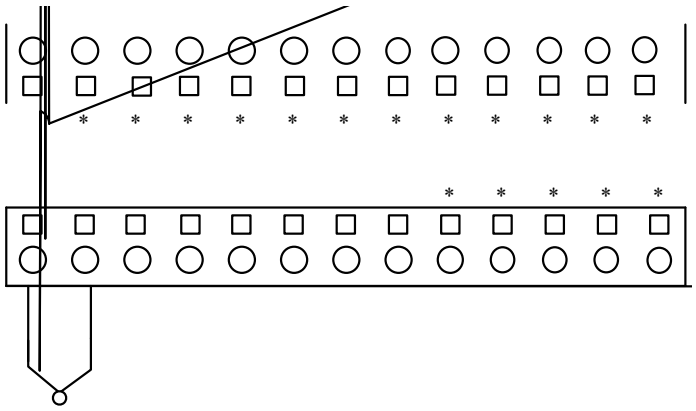
	ERROR	POWER

3.2.11 LM3311

	( )	
J	-210 1200	-2100 12000
K	-270 1370	-2700 13700
E	-270 1000	-2700 10000
N	-270 1300	-2700 13000
T	-270 400	-2700 4000
R	-50 1768	-500 17680
S	-50 1768	-500 17680
B	300 1820	3000 18200
-80 80mV		-8000 8000

10 **100**

4 LM3311 3.2.1

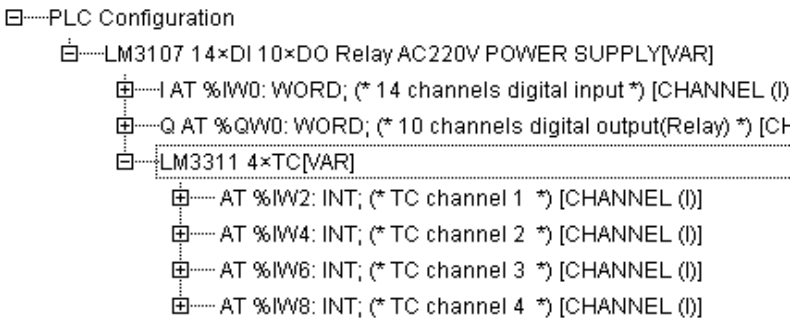


3.2.11 LM3311

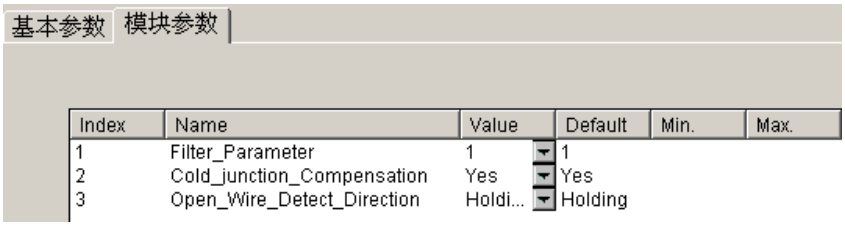
A+ A- B+ B-

*

LM3311 PowerPro 3.2.2 LM3311 4 TC[VAR]
3.2.3



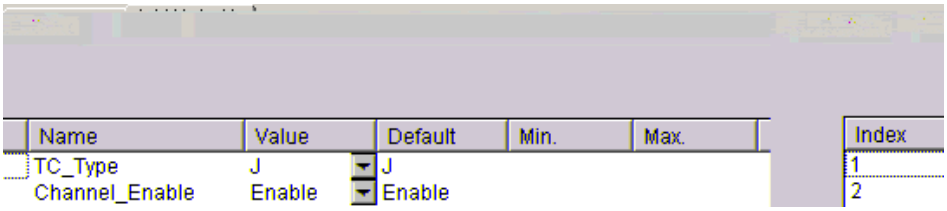
3.2.12 LM3311



3.2.13 LM3311

Filter_Parameter 1 2 4 8 16 32
RC 3.2.4
Cold_junction_Compensation Yes
No
Open_Wire_Detect_Direction
Holding
Upscale
Downscale

LM3311 3.2.4 TC_Type
J Channel_Enable Enable

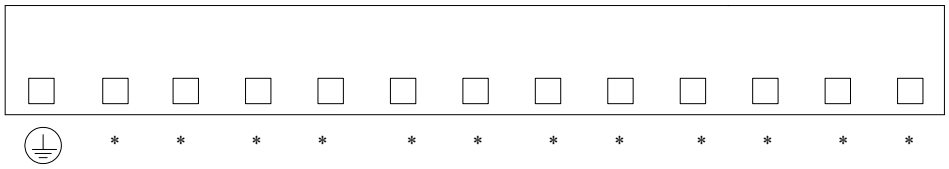


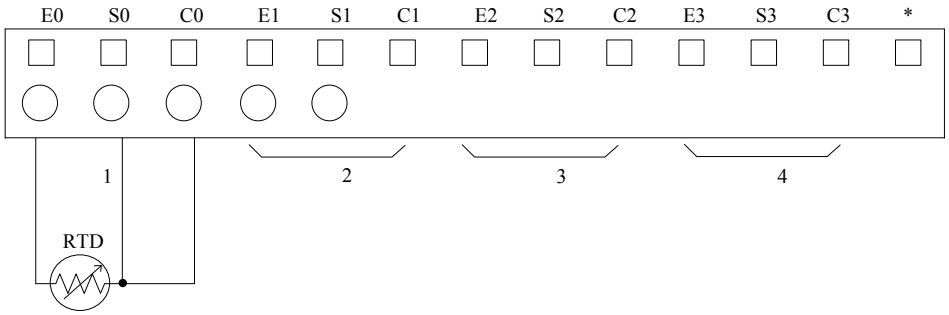
3.2.14 LM3311

LM3311 Disable
Enable ERROR

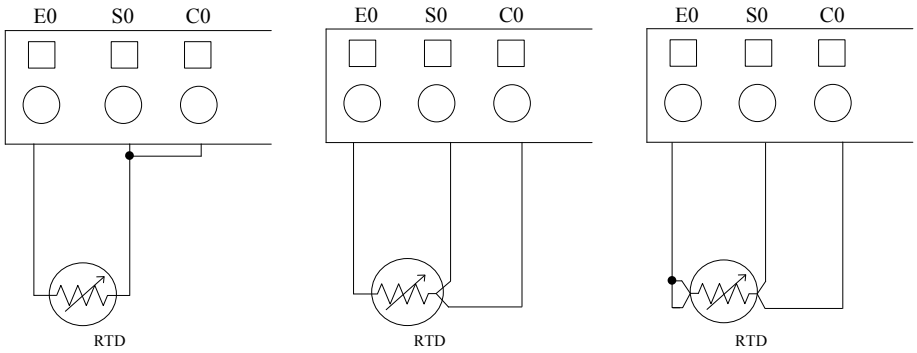
3.2.4 4 LM3312

LM3312 4 Cu50 Pt100





3.2.15 LM3312



3.2.16 RTD

4 ,

3.2.16 S C E S

E S C

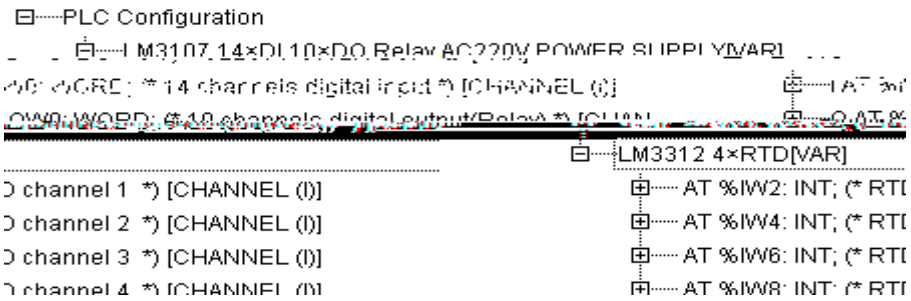
E S C

E S C

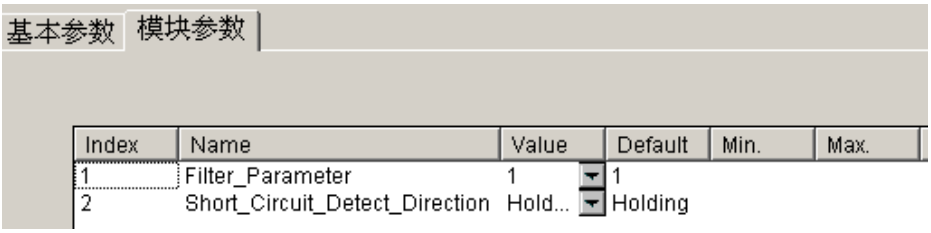
*

LM3312 PowerPro 3.2.17 LM3312 4 RTD[VAR]

3.2.18



3.2.17 LM3312



3.2.18 LM3312

Filter_Parameter 1 2 4 8 16 32

RC 3.2.4

Short_Circuit_Detect_Direction

Holding
Upscale
Downscale

LM3312 3.2.19

RTD_Type Cu50 -50~140.1 Channel_Enable

3.2.5 8 LM3313

LM3313 8

3.2.15 LM3313

			LM3313		
		8		75mm(L) 90mm(W) 70mm(H)	
		-10 10V -20 20mA		170g	

+24VDC
(

RA A+

2 4 LM3313 LM3310 2

CPU 24VDC

3.2.2 4 LM3313

3.2.3

*

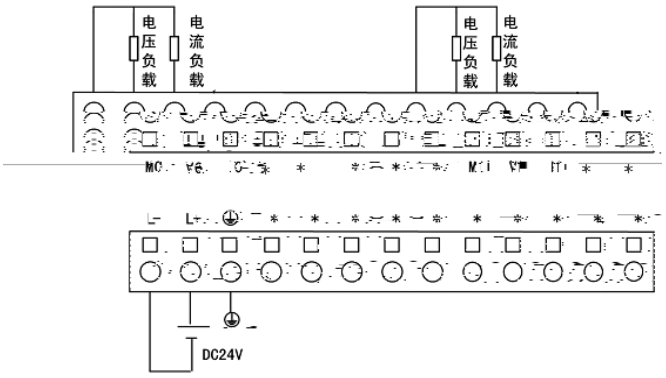
LM3313 LM3310 3.2.1 LM3310

3.2.6 2 LM3320

LM3320 2

3.2.18 LM3320

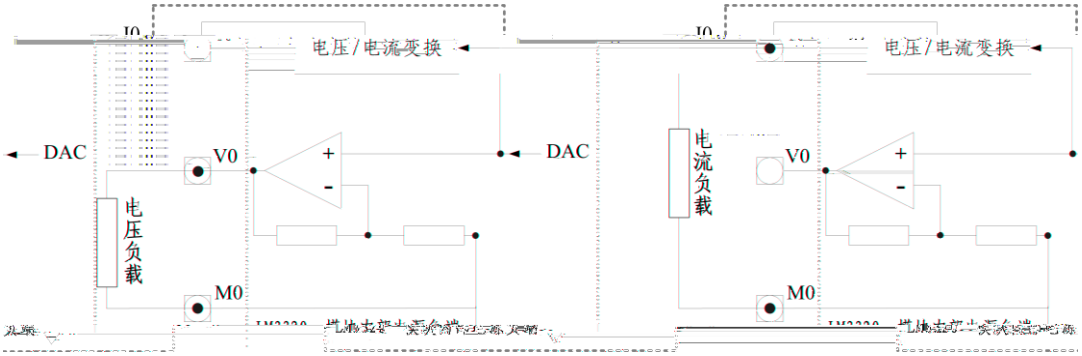
		LM3320			
	2			75mm(L) 90mm(W) 70mm(H)	
	0 10V			160g	
	0 20mA		+24VDC ( )	0mA	
	0.5%F.S.@25				
	3ms		+24VDC (		



3.2.21 LM3320

L+ L- 24VDC
M0 M1
V0 V1
I0 I1
I0 A0 B0 I1 A1 B1
⏚
*

3.2.2 3.2.3



3.2.22 LM3320 3.2.23 LM3320

3.2.24 ~

3.2.24 LM3320

3.2.7 4 /1 LM3330

LM3330 4 1

3.2.21 LM3330

			LM3330		
		4			1
		0 10V			0 10V
		0 20mA/4 20mA			0 20mA
		0.5%FS@25			0.5%F.S.@25
		<200 s			100ppm/
					<100us
		100ppm/			<100us
		6ms			2K
		1M ( ) 250 ( )			600
				+24VDC ( )	30mA
		75mm(L) 90mm(W) 70mm(H)			
		200g		+24VDC ( )	0
		0 +55			
		-40 +70		+5VDC ( )	50mA
		5 95%			

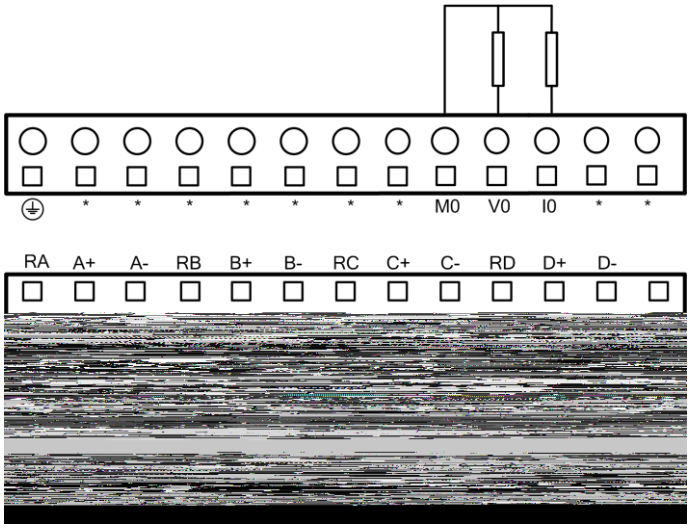
3.2.22 LM3330

	POWER

3.2.23 LM3330

AI			
	0~10V	0~65535	0x0000~0xFFFF
	0~20mA	0~65535	0x0000~0xFFFF
	4~20mA	0~65535	0x0000~0xFFFF
AO			
	0~10V	0~4095	0x000~0xFFF
	0~20mA	0~4095	0x000~0xFFF

4 /1 LM3330 3.2.25



3.2.25 LM3330

4 (A B C D)

A+

A- RA A+

A-

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*

LM3330 LM3310B !

LM3330 LM3320 3.2.2 3.2.3

3.3

3.3.1 MODBUS-RTU LM3400

LM3400 MODBUS-RTU 1 RS232 RS485
1

3.3.1 LM3400

		LM3400		
	2 (RS232 RS485)		RS-232	15
	DB9 (RS232) (RS485)	:	RS-485	1200
	MODBUS / 1200 2400 4800 9600 19200 38400 57600 115200bps	mm ( )		75×90×70

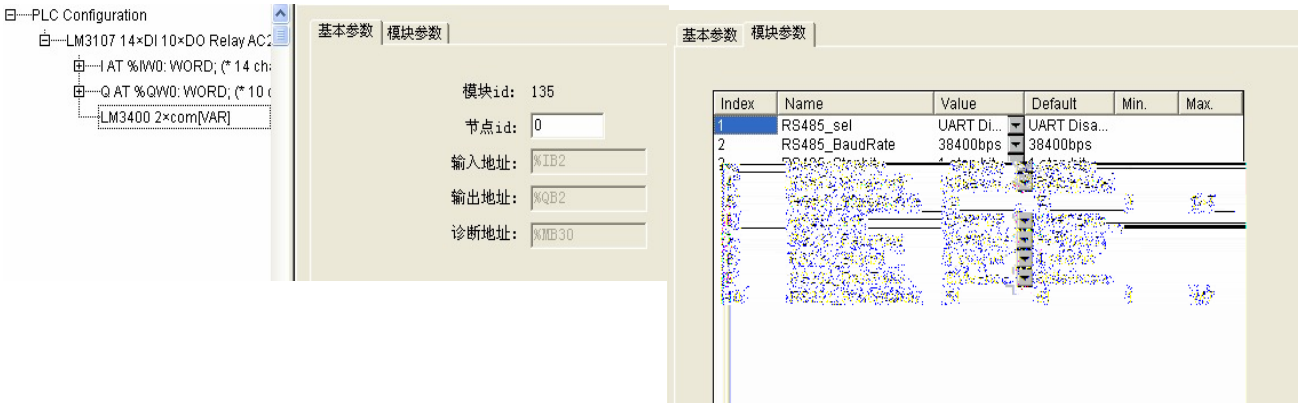
RS232 9 D 3.3.3

3.3.3 LM3400 D 9 RS232

1		6	
2	RXD	7	
3	TXD	8	
4		9	
5	GND		

RS485 RT RS485+

PowerPro LM3400 3.3.2 3.3.4



3.3.2 LM3400

3.3.4 LM3400

RS-485 RS-232	sel	UART Disable UART Enable	UART Disable		
	BaudRate	1200 2400 4800 9600 19200 38400 57600 115200bps	38400bps		
	Stopbit	1 stop bit 2 stop bit	1 stop bit		
	DataParity	8 bits+none 8 8 bits+even 8 8 bits+odd 8 9 bits+none 9	8 bits+none		
	Slave Station	1 247	51	1	247

LM3400 Slave Station

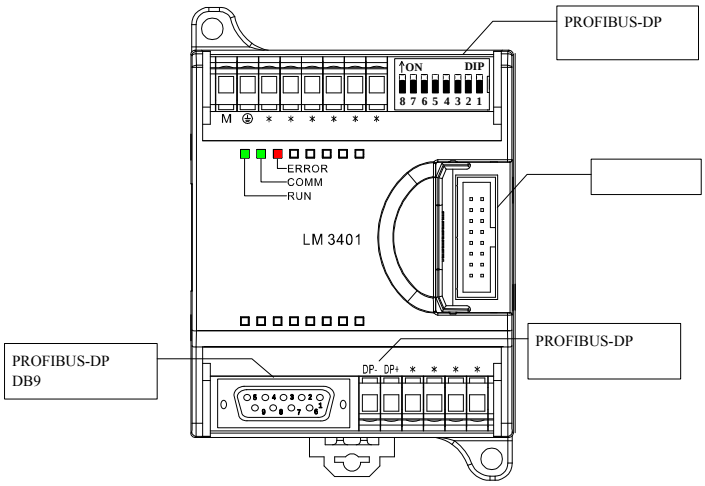
3.3.2 PROFIBUS-DP LM3401

LM3401 PROFIBUS-DP LM PLC PROFIBUS-DP PROFIBUS-DP 3.3.3

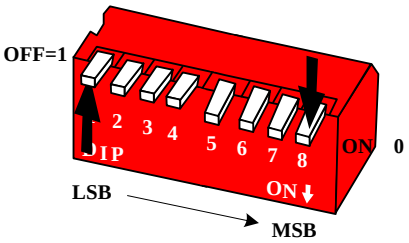
3.3.3 LM3401

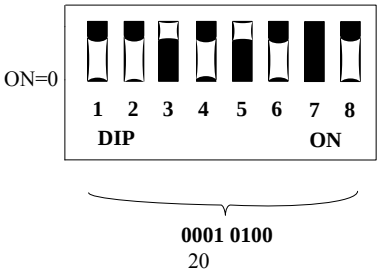
3.3.5 LM3401

		LM3401		
	1			75mm(L) 90mm(W) 70mm(H)
	9 D /			160g
	64		+24VDC ( )	20mA
PROFIBUS-DP	9.6 19.2 45.45 93.75 187.5 500kbps 1 1.5 3 6 12Mbps( )		+5VDC ( )	120mA
	0 126( )			0 +55
	32			-40 +70
	126			5 95%
				500VAC



LM3401 PROFIBUS-DP DP9
DP+ DP- DB9 3 B 8 A
DP
8 DP ON
0 OFF 1 1~8 8 LM3401
DP 3.3.5 20
“OFF” **“1”** **255**
*





20

3.3.5 2 3.3.6 20( )

9 D

9 D 3.3.7

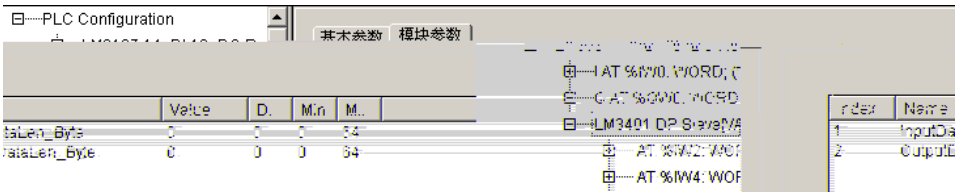
3.3.7 9 D

1	
2	
3	B RxD/TxD+
4	RTS TTL
5	GND 5VDC
6	+5V 5VDC 90mA
7	
8	A RxD/TxD-
9	

3.3.8

93.75kbps	<1,200m
187.5kbps	<1,000m
500kbps	<400m
1.5Mbps	<200m
3~12Mbps	<100m

LM3401 3.3.7 InputDataLen_Byte OutputDataLen_Byte
64



3.3.7 LM3401

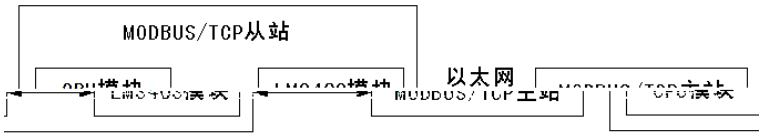
gsd

www.hollysys.cn

>> >> HSLM3401.gsd

3.3.3 LM3403

LM3403 LM PLC MODBUS TCP



3.3.8 LM3403

3.3.9 LM3403

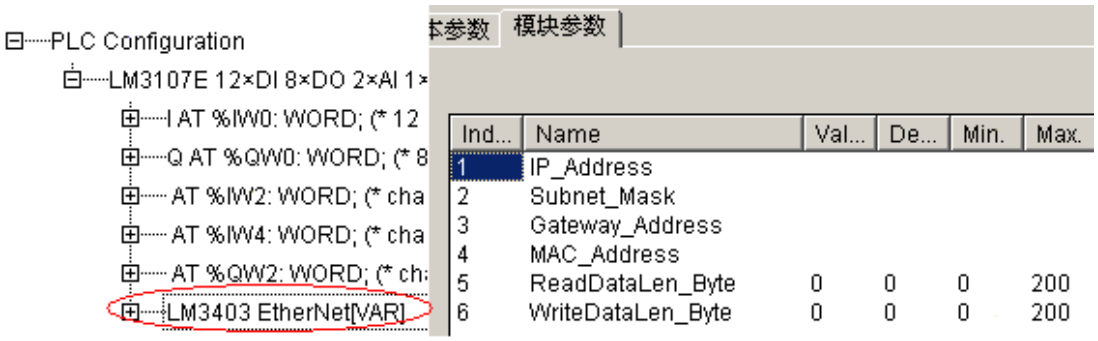
		LM3403		
	1 (MODBUS TCP)			75mm(L) 90mm(W) 70(H)
	(RJ45)			160g
	MODBUS TCP		+24VDC ( )	0mA
	IP (172.20.45.160) IP (MAC_Address)		+5VDC ( )	80mA
	10Mbps			
	200			0 +55
				-40 +70
				5 95%

3.3.10 LM3430

RUN		
LINK		
RX/TX		
ERROR		

RJ45

LM3403 3.3.9 IP_Address Subnet_Mask Gateway_Address IP MAC_Address ReadDataLen_Byte WriteDataLen 200



3.3.9 LM3403

MODBUS TCP

3.3.11 LM3403

		( )
01		
02		
03		
04		
05		
06		
15		
16		

4.1.2

LM PLC AWG28 12 0.321 2.053mm

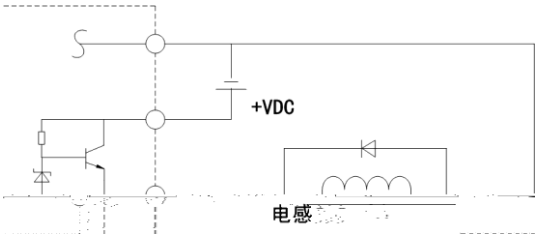
4.2

LM PLC
LM PLC

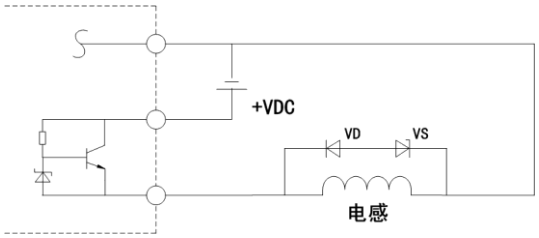
4.2.1

LM PLC

4.2.1 4.2.2



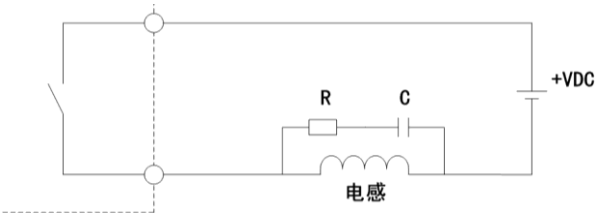
4.2.1



4.2.2

/ 30VDC

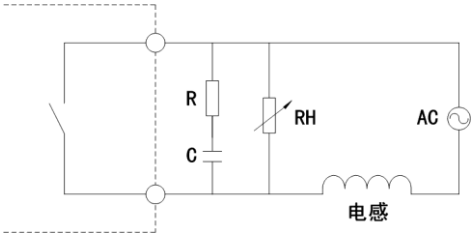
4.2.3



4.2.3

220VAC

4.2.4



4.2.4

4.2.2

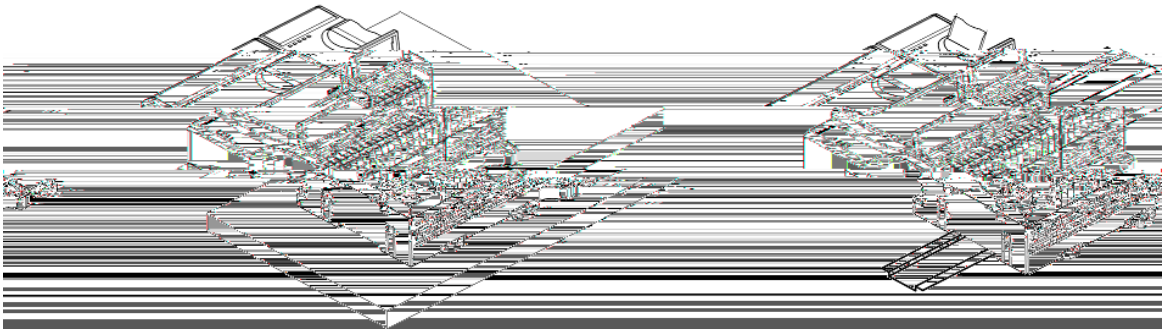
4.3

LM PLC

4.3.1

LM PLC

DIN 4.3.1



4.3.1 LM PLC

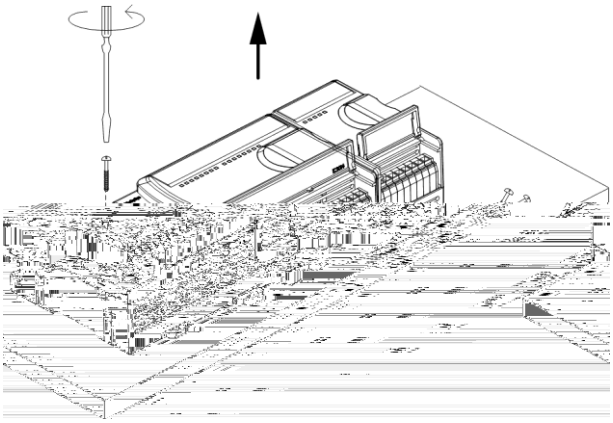
1

CPU

4.3.2

4.3.2

4.3.3



4.3.3

2

LM PLC 35mm DIN 4.3.4
DIN 4.3.5 DIN

4.3.4 35mm DIN

DI DI

1 DI

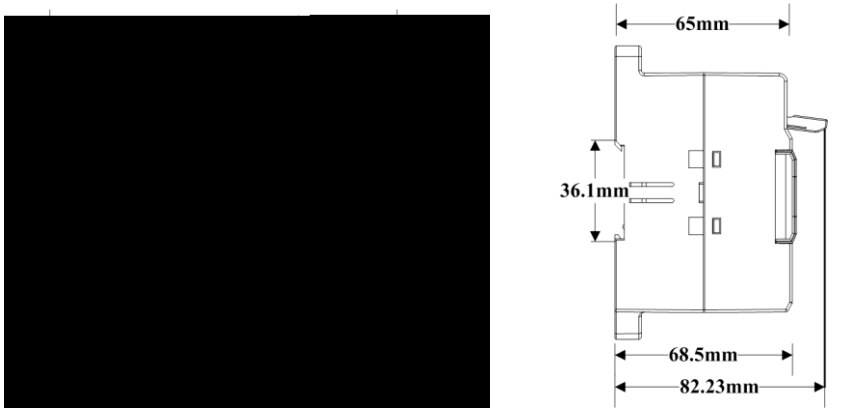
DI

2 DO DI DO

DO DI DO DI

4.4

LM PLC 4.4.1



4.4.1 LM PLC

A LM PLC

A LM PLC

		(W H D)	
CPU	LM3104	125mm 90mm 70 mm	CPU DC24V 14 I/O DI 8 DC24V DO 6
	LM3105	125mm 90mm 70 mm	CPU AC220V 14 I/O DI 8 DC24V DO 6
	LM3106	125mm 90mm 70 mm	CPU DC24V 24 I/O DI 14 DC24V DO 10
	LM3106A	125mm 90mm 70 mm	CPU DC24V 24 I/O DI 14 DC24V DO 10
	LM3107	125mm 90mm 70 mm	CPU AC220V 24 I/O DI 14 DC24V DO 10
	LM3107E	125mm 90mm 70 mm	CPU AC220V 23 I/O DI 12 DC24V DO 8 AI 2 AO 1
	LM3108	200mm 90mm 70 mm	CPU DC24V 40 I/O DI 24 DC24V DO 16
	LM3109	200mm 90mm 70 mm	CPU AC220V 40 I/O DI 24 DC24V DO 16
	LM3109H	200mm 90mm 70 mm	CPU AC220V 40 I/O DI 24 DC24V( ) DO 16
	LM3210	50mm 90mm 70 mm	8 DI 8 DC24V
	LM3212	75mm 90mm 70 mm	16 DI 16 DC24V
	LM3220	50mm 90mm 70 mm	8 DO 8 DC24V
	LM3221	75mm 90mm 70 mm	16 DO 16 DC24V
	LM3222	50mm 90mm 70 mm	8 DO 8
	LM3223	75mm 90mm 70 mm	16 DO 16
	LM3230	50mm 90mm 70 mm	4 /4 DI 4 DC24V+DO 4 DC24V
	LM3231	50mm 90mm 70 mm	4 /4 DI 4 DC24V+DO 4
	LM3233	50mm 90mm 70 mm	4 /4 DI 8 DC24V+DO 8
	LM3310	75mm 90mm 70 mm	4 4 20mA/0 20mA/0 10V
	LM3310B	75mm 90mm 70 mm	4 0 20mA/0 100mV/500mV/1V/5V/10V
	LM3311	75mm 90mm 70 mm	4 J K E N T R S B / 80mV
	LM3312	75mm 90mm 70 mm	4 Cu50(-50-140.1) Cu50(-50-150) Pt100(-150-157.2) Pt100(-150-619.6)
	LM3313	75mm 90mm 70 mm	8 -10V 10V/-20mA 20mA
	LM3320	75mm 90mm 70 mm	2 0 20mA/0 10V
	LM3330	75mm 90mm 70 mm	4 4 20mA/0 20mA/0 10V 1 0 20mA/0 10V
	LM3400	75mm 90mm 70 mm	MODBUS-RTU
	LM3401	75mm 90mm 70 mm	PROFIBUS-DP
	LM3403	75mm 90mm 70 mm	
	LS3601	-	PowerPro
	LA3801	3m	
	LD3000	-	LM

	LD3001	-	LM
	LD3002	-	LM
	LD3003	-	LM

B LM PLC

B LM PLC

			0 +55 -40 +70
			5 95%
			GB/T2423.7-1995

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