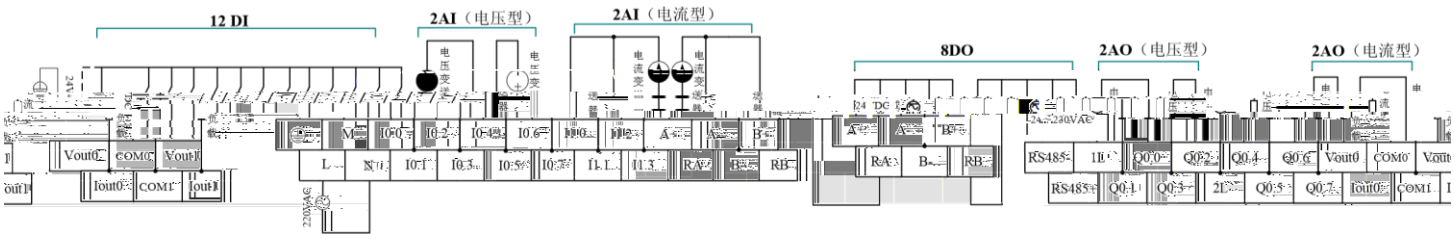
LE5107E 12 /8 2 /2 CPU

➢

CPU			
IO	12 24VDC /8 2 /2		100~240VAC
			85 264VAC 50/60Hz
Max.	4	Max.	300mA
	1		
	LD/ST/CFC/SFC		
	128K	Max. +24VDC	190mA
	10496	+5VDC	550mA
	2K		10ms
	USB		
	2 5KHz		2 RS485
	1 20KHz		RS485
	2	bps	1200 2400 4800 9600 19200 38400 57600 115200
	2		
			Modbus
	0.1μs		
	12		8
	/		
	24VDC		24VDC 24 230VAC
	0 30VDC		5 30VDC 5 250VAC
1	15 30VDC 4mA		2A
0	0 5VDC 1mA		8A
	5ms 10ms 20ms 50ms 100ms		0.2Ω
			1Hz
			10,000,000
	1		2A 100,000
	500VAC 1min <5mA		
			2
	2		1500VAC 1min <5mA
	0 10V		2
	0 20mA/4 20mA		0 10V
	0 65535		0 20mA/4 20mA
	1%		0 65535
AD	10		1%
	>950KΩ	DA	12

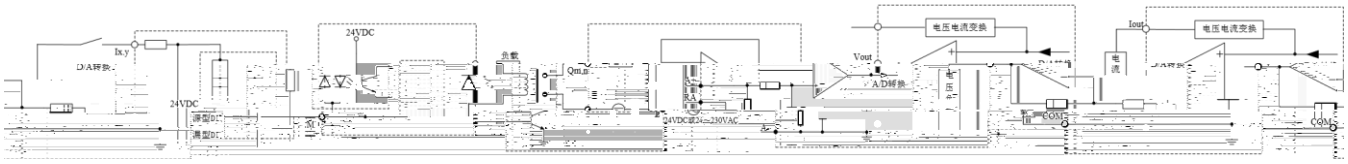
PWR			
Ix.y,Qm.n			ON
			OFF
RUN/STOP			PLC RUN
			PLC STOP
		1Hz	PLC
		1Hz	PLC
		4Hz	PLC
ERR			PLC
			PLC
		1Hz	



LE5107E LE5107E

		L		RS485-	RS485	RS485+	RS485
M		N		1L	Q0.0 Q0.3	Q0.1	
I0.0	1/ 1/ 1/ A /	I0.1	2/ 2/ 2/	Q0.0		Q0.3	
I0.2	1 / /	I0.3	2 /	Q0.2		2L	Q0.4 Q0.7
I0.4	B / 1 /	I0.5	2 /	Q0.4		Q0.5	
I0.6		I0.7		Q0.6		Q0.7	
I1.0		I1.1		Vout0		Iout0	
I1.2		I1.3		COM0		COM1	
A+	A	RA	A	Vout1		Iout1	
A-		B-		—	—	—	—
B+	B	RB	B	—	—	—	—

➢



DI **DO** **AI** **AO** **AO**

➢

RS485 (PC)

LE5107E 8 LE5107E CPU

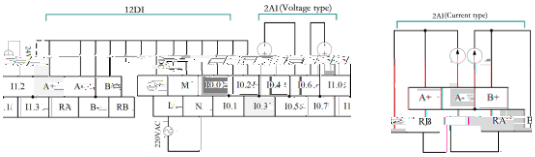
8

		Flashing (1Hz)	Upgrading firmware failed.

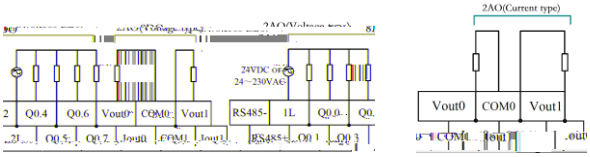
Solutions: Replace faulty expansion module.

➢ **Terminal Definition and Connection**

LE5107E is connected with an external 220VAC power and has two pluggable terminals (11x2 and 9x2), the upper terminal offers digital input channel (DI, AI), the lower terminals offers digital output channel (DO, AO), and connection is easy and convenient and is secured with screw, which is a typical field connection case.



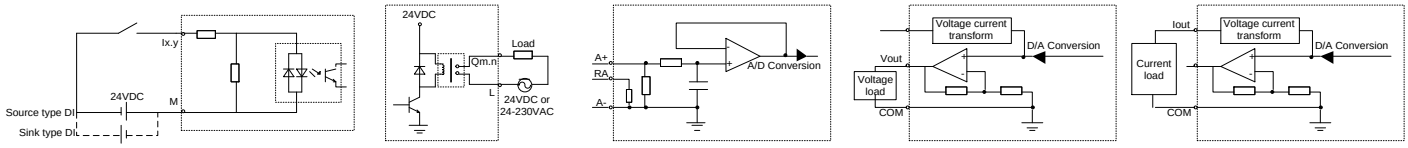
LE5107E Upper Terminal Definition and Wring Diagram



LE5107E Lower Terminal Definition and Wring Diagram

Terminal Identification	Description	Terminal Identification	Description	Terminal Identification	Description	Terminal Identification	Description
⏚	Grounding	L	Fire wire	RS485-	RS485 communication negative	RS485+	RS-485 communication positive
M	Common of input	N	Null wire	1L	Output common (Q0.0~Q0.3)	Q0.1	Ordinary output
I0.0	Fast external interruption 1/Pulse catch 1/Single-phase counter 1/ A/B phase counter phase A/Ordinary input	I0.1	Fast external interruption 2/Pulse catch 2/Single-phase counter 2/Ordinary input	Q0.0	Ordinary output	Q0.3	Ordinary output
I0.2	Single-phase counter 1 reset / A/B phase counter reset /Ordinary input	I0.3	Single-phase counter 2 reset /Ordinary input	Q0.2	Ordinary output	2L	Output common (Q0.4~Q0.7)
I0.4	A/B phase counter phase B / Single-phase counter 1 direction control /Ordinary input	I0.5	Single-phase counter 2 direction control /Ordinary input	Q0.4	Ordinary output	Q0.5	Ordinary output
I0.6	Ordinary input	I0.7	Ordinary input	Q0.6	Ordinary output	Q0.7	Ordinary output
I1.0	Ordinary input	I1.1	Ordinary input	Vout 0	Analog voltage output	Iout0	Analog current output
I1.2	Ordinary input	I1.3	Ordinary input	COM0	Analog output common	COM1	Analog output common
A+	Channel A voltage input	RA	Channel A current input	Vout1	Analog voltage output	Iout1	Analog current output
A-	Analog input common	B-	Analog input common	--	--	--	--
B+	Channel B voltage input	RB	Channel B current input	--	--	--	--

➢ **Electrical Schematic Diagram**



Output Channel (DO) Input Channel (DI) Input Channel (AI) Output Channel (AO) Output Channel (AO)

➢ **Communication Interface**

RS485 communication interface can establish connection to personal computer (PC) through programming cable, realize download of user program and on-line debugging and be applied to communication with field devices. Junction and communication between LE5107E CPU module and upper computer are achieved through PS/2 of LE5107E (at in the figure), junction and communication between LE5107E CPU module and extension module are achieved through connector (at in the figure).

Definition of PS/2

Pin No.	Definition	Pin No.	Definition	Pin No.	Definition	Pin No.	Definition
1	__	3	__	5	RS485+	7	System GND
2	__	4	__	6	RS485 -	8	System GND

➢ **Software Configuration**

Both programming software and CPU module provide the setting of “Run” and “Stop” status, therefore the software and hardware are constrained each other.

RUN/STOP selective switch position	Status of programming software	Module status
Run (switch to upper position)	RUN	RUN; automatically changed into STOP if users download program in this status.
	STOP	STOP
Stop (switch to lower position)	RUN/STOP	STOP(user's program stops, unable to run)

➢ **Communication Connection**

- Before downloading, please confirm that PLC is connected as the schematic diagram; please use HollySys PLC programming cable to download the program.
- Before downloading, please confirm that AutoThink V3.1.0 or above version has been installed;
- To download, please click “Download” option in menu bar of AutoThink software and follow the instructions for downloading.

⚠**Caution:**

(1) Cover of the terminal should be fastened properly prior to power on of the PLC system to avoid unnecessary personal injury or device damage.
(2) When connecting or removing PLC power supply, severe personal injury or device damage may be caused if power supply is not removed. Therefore, before module installation or removal, all power supply must be turned off and please pay attention to this at any time.
(3) Before connecting power to PLC, please confirm programming cable is connected properly and please do not remove from or insert into communication port during power on to avoid device damage.
(4) If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
(5) ⚠ Warning symbol for high voltage, please do not touch equipment with the warning symbol, operation in electricity is strictly prohibited.