

XC3 Series PLC: A PLC has built in I/O and is expandable

(Transistor Output Version can do Pulse Output Motion Control)



Item	Specification		
	XC3-14	XC3-24 / XC3-32	XC3-48 / XC3-60
Program executing format	Loop scan format、time scan format		
Program format	Both Ladder Logic and Statement List		
Contact Execution	0.5us		
Retentive Memory	Use Flash ROM and Library		
User program's capacity	2,500 steps	8,000 steps	
Built In digital I/O points	Inputs: 8 Output: 6	Inputs: 14 / 18 Output: 10 / 14	Input: 28 / 36 Output: 20 / 24
Maximum I/O Points	Can not connect with any expansion or BD	7 Expansion Modules plus one XC-2AD2PT-BD board, 228 points additional	
Pulse Outputs	Transistor Output Version (Two)		
Hardware Interrupts	1	3	
Internal coil's points (M)	8,512 points		
Timer (T)	Points	620 points	
	Spec.	100mS timer: Set time 0.1~3276.7 seconds 10mS timer: Set time 0.01~327.67 seconds 1mS timer: Set time 0.001~32.767 seconds	
Counter (C)	Points	635 points	
	Spec.	16 bits counter: set value K0~32,767 32 bits counter: set value K0~2,147,483,647	
Data Register (D)	8,512 words		
Floating Point Math	Yes		
Flash ROM Register (FD)	2,048 words		
High speed dispose function	High speed count、pulse output、external interrupt		
Scan Time	0 ~ 99 ms		
Password protection	6 bits ASCII		
Self diagnose function	Power on self-diagnose、Monitor timer、grammar check		
Real Time Clock/Calendar	Yes		

XC3-xxxx

1 2 3 4

1. the family of PLC
2. the number of built in I/O points
3. R: Relay Outputs, T: Transistor Outputs
4. T: 2 Transistor Outputs

General XC3 PLC Hardware Specifications:

1. Input Voltage: 24VDC
2. Input Current: 120mA@24 VDC
3. Power Consumption: 12 W
4. Insulate voltage: Up to DC 500V 2M Ω
5. Anti-noise: 1000V 1uS pulse per minute
6. Storage Temperature: -20-60 $^{\circ}$ C
7. Ambient Operating Temperature: 0~60 $^{\circ}$ C
8. Ambient Humidity: 5~95% (non-condensing)
9. COM 1: RS-232
10. COM 2: RS-232/RS-485
11. COM 3: BD board expansion COM port

Built In Input Specifications:

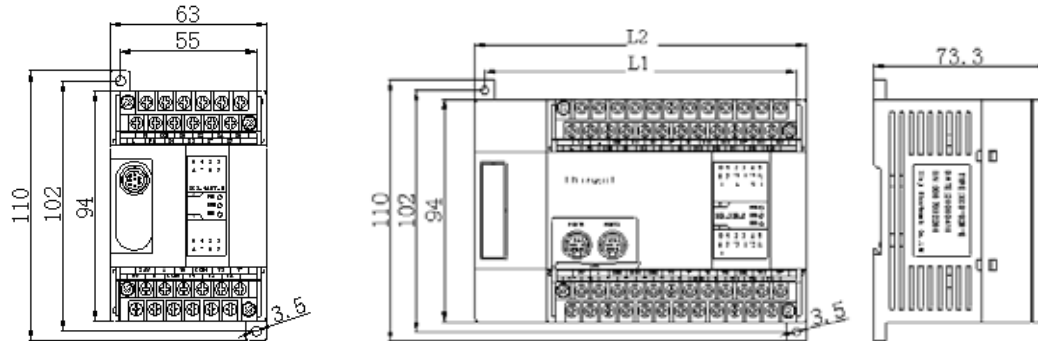
Input signal's voltage	24VDC \pm 10%
Input signal's current	7mA@24VDC
Input ON current	> 4.5mA
Input OFF current	< 1.5mA
Input response time	<10ms
Input signal's type	Contact input or NPN open collector transistor
Circuit insulation	Photo-electricity coupling insulation
LED	Yes

Built In Output Specifications:

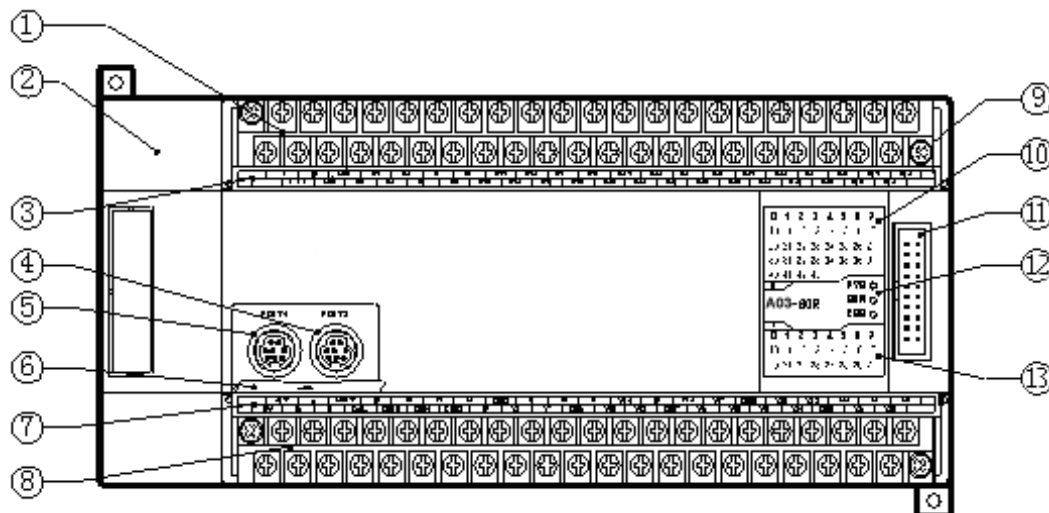
Items		Relay output	Transistor Output
Voltage Output		AC250V, DC30V	5VDC ~ 30VDC
Circuit insulation		Mechanism insulation	Optical coupling insulation
LED		Yes	
Max load	Resistance load	3A	0.8A
	Induce load	80VA	12W@24VDC
	Lamp load	100W	1.5W@24VDC
Mini load		2mA@5VDC	
Response time	OFF \rightarrow ON	10ms	< 0.2ms
	ON \rightarrow OFF	10ms	< 0.2ms

Dimensions:

XC3-14 family PLC controller



XC3 Other Types	L1 (mm)	L2 (mm)
XC3 -24 / 32 family PLC Controller	131	139
XC3 - 48 / 60 family PLC Controller	199.4	207.4



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|-------------------------|-----------------------------|
| 1. Input Terminals | 2. BD Expansion Slot |
| 3. Input Labels | 4. COM 1 Port |
| 5. COM 2 Port | 6. COM 3 Port |
| 7. Output Labels | 8. Output Terminals |
| 9. Screws | 10. Input Indicate LED |
| 11. Expansion Slot | 12. PLC Status Indicate LED |
| 13. Output Indicate LED | |