

**New
Generation
PLC**



FT1A Series Smart **AXIS** - 40 I/O

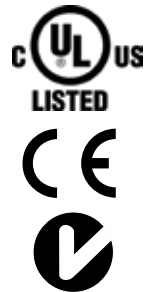
Key Features

- Available in 100-240 VAC and 24 VDC power
- Available with/without embedded LCD
- 10 Amp Relay contacts
- USB Mini-B Programming Port
- Embedded 6-pt analog inputs (0-10VDC, 10-bit, DC power)
- Integrated 4 x 100KHz high-speed counter
- Embedded Ethernet port
- Supports Modbus TCP and RTU
- SD Memory card for data logging and program storage
- Optional RS232C/RS485 adapter
- 100KHz high-speed outputs



General Specifications

Part Numbers	FT1A-H40RKA, H40RSA	FT1A-B40RKA, B40RSA	FT1A-H40RC	FT1A-B40RC
Appearance				
LCD Screen	Yes	N/A	Yes	N/A
Operating Temperature	0 to +55°C (operating ambient temperature)			
Storage Temperature	-25 to +70°C (no freezing)			
Rated Power Voltage	24V DC		100 to 240V AC	
Allowable Voltage Range	20.4 to 28.8V DC (Including ripple voltage)		85 to 264V AC	
Rated Power Frequency	-		50/60Hz (47 to 63Hz)	
Maximum Power Consumption	7.9W		48VA	
Weight	Approx. 420g		Approx. 580g	



Function Specifications

Part Numbers	FT1A-H40RKA, H40RSA, B40RKA, B40RSA	FT1A-H40RC, B40RC
Program Capacity ^{Note 1}	47,400 bytes (11,850 steps)	
Input	Points	24
	Digital Input (Terminal No.)	18 (I0 to I7, I10 to I17, I20, I21)
	Shared Analog Input (Terminal No.)	6 (I22 to I27)
	Output Points	16
	10A Relay Output (Terminal No.)	4 (Q0 to Q3)
	2A Relay Output (Terminal No.)	8 (Q4 to Q7, Q10 to Q13)
	Transistor Output (Terminal No.)	4 (Q14 to Q17)
User Program Storage	Flash ROM (10,000 rewriting life)	
Backup Function	RAM	Backup data: Internal relay, shift register, counter current value, data register ^{Note 2} , clock data (year, month, and day)
	Backup Duration	Approx. 30 days (typical) at 25°C after backup battery fully charge
	Battery	Lithium
	Charging Time	Approx. 15 hours for charging from 0% to 90% of full charge
	Battery Life	5 years
	Replaceability	Not possible
Clock Function ^{Note 3}	Clock accuracy: ±30 sec/month (typical) at 25°C	
Control System	Stored program system	

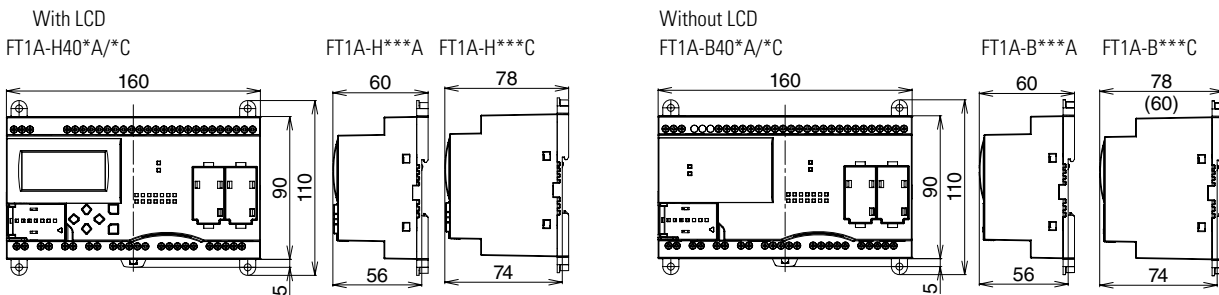
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Part Numbers		FT1A-H40RKA, H40RSA, B40RKA, B40RSA	FT1A-H40RC, B40RC
Instruction Words	Basic Instructions	42	
	Advanced Instructions	DC: 125, AC: 111	
Processing Time	Basic Instruction	0.95ms (1000 steps)	
	END Processing	640µs	
Internal Relay		1024	
Shift Register		128	
Data Register		2,000	
Counter (adding, reversible)		200	
Timer (1-sec, 100ms, 10ms, 1ms)		200	
Input Filter		Without filter, 3 to 15ms (selectable in increments of 1ms)	
Catch Input/Interrupt Input	Input Points	6	
Self-diagnostic Function		Keep data, Power failure, Clock error, Watchdog timer, Timer/counter preset value change error, User program syntax, User program execution, System error, Memory cartridge transfer error	
High-speed Counter	Points	Total 6 points	—
	Maximum Counter Frequency	Single/two-phase selectable: 100kHz (2 points), Single-phase: 100kHz (4 points)	
	Counting Range	0 to 4,294,967,295 (32 bit)	
	Operation Mode	Rotary encoder mode and adding counter mode	
Pulse Output (Maximum frequency: 100kHz)	Points	2 (Q14, Q15)	—
	Points	2 (Q16, Q17)	—
Analog Voltage Input	Points (Terminal No.)	6 (I22 to I27)	—
	Input voltage Range	0 to 10V DC	
	Digital Resolution	0 to 1000	
USB Port	Points	1	
	USB Standard	USB 2.0	
	Connector	Mini-B type	
Expansion Communication Ports		2	
Ethernet Port		1	
Memory Cartridge Connectors		1	
SD Memory Card Slots		1	

1. Step is equivalent to 4 bytes.
2. Among data registers D0 to D1999, only D0 to D999 are backed up.
3. Set the calendar/clock using the clock function in WindLDR.

Dimensions (mm)



Mounting Hole Layout

