MITSUBISHI



REVISIONS

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INTRODUCTION

Thank you for choosing the Mitsubishi MELSEC-A Series of General Purpose Programmable Controllers (UL/CSA Standard approved equipment). Please read this manual carefully so that the equipment is used to its optimum. A copy of this manual should be forwarded to the end user.

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POINT

The UL /CSA Standard approved equipment seal must not be removed from the equipment. Without this seal, any equipment in question will not be regarded as UL/CSA approved.

1. INTRODUCTION

This manual contains list of equipment from the A2C series which has been UL\CSA Standard Approved.

For handling and other information, please read the following manuals:

Manual name	IB number
A2CCPU (P21/R21) user's manual	IB-66267
A2CCPUC24 (PRF) user's manual	IB-66363
A2C I/O user's manual	IB-66236
AD61C High speed counter unit user's manual	IB-66246
A64DAVC/A64DAIC Digital-Analog converter unit user's manual	IB-66248
A64RD3C/A64RD4C Pt100 input unit user's manual	IB-66312
A68ADC Analog-Digital converter unit user's manual	IB-66247
ACPU (Fundamental) programming manual	IB-66249
ACPU (Common) programming manual	IB-66250

MELSEC-A

2. LIST OF UL/CSA STANDARD APPROVED EQUIPMENT

The A2C series general-purpose programmable controllers indicated below have been approved by UL/CSA standards.

Description	Туре	Specifications			
	A2CCPU				
	A2CCPUP21	Number of I/O points: 512, Memory capacity: 32 k bytes			
CPU unit	A2CCPUR21	1			
	A2CCPUC24	Number of I/O points: 512 (32 points are used for the computer link Memory capacity: 32 k bytes			
	A2CCPUC24-PRF				
Power supply unit	A66PC	Input: 120/240 VAC. Output: 24 VDC, 0.6 A			
	AX11C	32 points, 100 to 120 VAC			
Input unit	AX41C	32 points, 12/24 VDC: sink type			
	AX81C	32 points, 12/24 VDC: sink/source common type			
	AX13C	32 points, relay contact output, 24 VDC/100 to 120 VAC, 2 A			
Output unit	AX23C	32 points, triac output, 100 to 120 VAC, 0.3 A			
	AX51C	32 points, transistor output, 12/24 VDC, 0.3 A, sink type			
	AX81C	32 points, transistor output, 24 VDC, 0.5 A, source type			
	AX10Y10C	Input: 100 to 120 VAC, 16 points Output: relay contact output, 24 VDC/240 VAC, 2 A, 16 points			
	AX10Y22C	Input: 100 to 120 VAC, 16 points Output: triac output, 100 to 120 VAC, 0.3 A, 16 points			
I/O composite unit	AX40Y10C	Input: 12/24 VDC, 16 points, sink type Output: relay contact output, 24 VDC/240 VAC, 2 A, 16 points			
	AX80Y10C	Input: 12/24 VDC, 16 points, sink/source common type Output: relay contact output, 24 VDC/240 VAC, 2 A, 16 points			
	AX40Y50C	Input: 12/24 VDC, 16 points , sink type Output: transistor output, 12/24 VDC, 0.3 A, 16 points, sink type			
	AX80Y80C	Input: 12/24 VDC, 16 points, sink/source common type Output: transistor output, 24 VDC, 0.5 A, 16 points, source type			
High-speed counter unit AD61C 2 channels, binary 24 bits, 1/2 phase input, reversib 50 kpps, special 32 points		2 channels, binary 24 bits, 1/2 phase input, reversible counter, 50 kpps, special 32 points			
Digital-Analog	A64DAVC	4 channels, 12-bit digital input, Analog output 0 to ± 10 V special 32 points			
converter unit	A64DAIC	4 channels, 12-bit digital input, Analog output 4 to 20 mA special 32 points			
Analog-Digital converter unit A68ADC 8 channels, 12-bit analog input (4 to 20 mA/0 to ±10 12-bit digital output, special 32 points		8 channels, 12-bit analog input (4 to 20 mA/0 to \pm 10 V). 12-bit digital output, special 32 points			
Pt100 input unit	A64RD3C	4 channels, coded binary 16/32 bits. Uses a 3-lead platinum temperature-measuring registor. special 32 points			
	A64RD4C	4 channels, coded binary 16/32 bits. Uses a 4-lead platinum temperature-measuring registor. special 32 points			

3. SPECIFICATIONS

The following general specifications are common to all A2C series UL/CSA Standard approved equipment.

The A2C series UL/CSA Standard approved equipment have the same performance and specifications as the A2C series standard equipment. Please refer to the user's manual of each A2C series standard equipment.

3.1 General Specifications

Item	Specifications						
Operating ambient temperature	0 to 55 °C (32 to 131 °F)						
Storage ambient temperature	-20 to 75 °C (4 to 167 °F)						
Operating ambient humidity	10 to 90 % RH, no condensation						
Storage ambient humidity	10 to 90 % RH, no condensation						
	Conforms to *JIS C 0911	Frequency	Accelera- tion	Amplitude	Sweep Count		
Vibration resistance		10 to 55 Hz	·	0.075 mm (0.003 inch)	10 times - **(1octave/ minute)		
		55 to 150 Hz	9.8 m/s ² (1 g)				
Shock resistance	Conforms to JIS C 0912 (98 m/s ² (10 g) \times 3 times in 3 directions)						
Noise resistance	By noise simulator 1500 $V_{p\mbox{-}p}$ noise voltage, 1 μsec noise width and 25 to 60 Hz noise frequency						
Dielectric withstand voltage	1500 VAC for 1 minute across AC externals and ground 500 VAC for 1 minute across DC external terminals and ground						
Insulation resistance	5 $M\Omega$ or more with 500 VDC insulation resistance tester at the same location as dielectric strength.						
Grounding	Class 3 grounding: grounding is not required when it is impossible						
Operating ambience	No corrosive gases or dust.						
Cooling method	Self-cooling						

REMARK

One octave marked ** indicates a change from the initial frequency to double or half frequency. For example, any of the changes from 10 Hz to 20 Hz, 20 Hz to 40 Hz, 40 to 20 Hz, and 20 to 10 Hz are referred to as one octave.

NOTE: *JIS: Japanese Industrial Standard

IMPORTANT

- (1) Design the configuration of a system to provide an external protective or safety inter locking circuit for the PCs.
- (2) The components on the printed circuit boards will be damaged by static electricity, so avoid handling them directly. If it is necessary to handle them take the following precautions.
 - (a) Ground human body and work bench.
 - (b) Do not touch the conductive areas of the printed circuit board and its electrical parts with and non-grounded tools etc.

Under no circumstances will Mitsubishi Electric be liable or responsible for any consequential damage that may arise as a result of the installation or use of this equipment.

All examples and diagrams shown in this manual are intended only as an aid to understanding the text, not to guarantee operation. Mitsubishi Electric will accept no responsibility for actual use of the product based on these illustrative examples.

Owing to the very great variety in possible applications of this equipment, you must satisfy yourself as to its suitability for your specific application.

type A2C UL/CSA

User's Manual

MODEL A2C-UL/CSA-U-E

13JE24

MODEL CODE

IB(NA)-66427-A(9307)MEE

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