

CPS-3140 / CPS-3143 / CPS-3210

Sequence Control Trainer



CPS-3140



CPS-3143



CPS-3210

FEATURES

- Effective sequence control experiments using various electrical components being used in the field
- Designed to practice of wiring through the terminal block with freely placing of parts on board (CPS-3140/CPS-3143)
- Scalability and easy maintenance various application modules can be added and configured
- Practice of PLC and sequence in conjunction with PLC
- The components of sequence circuit are removable to increase the educational effectiveness
- Product qualified by KS or IEC regulations

EXPERIMENTAL CONTENTS

- Practice for the basic circuit of contact sequence
- Exercise the reverse rotation and Y-Δ wiring of three-phase induction motor
- Motor overload protection test by EOCR
- Test of contact sequence logic circuit
- Practice of magnetic holding circuit and detection circuit
- Experiment for the applications of display circuit and sensors
- Experiment for the Preference circuit and inching circuit
- Timer circuit and counter circuit test etc.

SPECIFICATIONS

Control Panel Module	
Structure of the control panel	Front open and close type, symbol and name silk printing
Toggle switch : 2ea	Contact capacity : AC 125V 10A, AC 250V 6A Contact composition : 1a1b
Manually operated self-resetting push button: 4ea (red x 2ea, green x 2ea)	Type : Ø22 round shape Contact capacity : AC 250V 6A Contact composition : 1a1b
Manually operated lever switch : 1ea	Type : Ø22 round shape, 2-position manual single lever Contact capacity : AC 250V 6A Contact composition : 1a1b
Emergency switch : 1ea	Contact capacity : AC 250V 6A Contact composition : 1a1b
Lamp: 4ea (red x 2ea, green x 2ea)	Type : Ø22 round shape Operating power : AC 220V
Buzzer : 1ea	Type : Ø22 round shape & continuous sound Operating power : AC 220V 4VA

Fuse Holder Module : 3ea	
Standard	HY30C
Fuse	30A
Timer (30sec) Module : 1ea	
Operation	OFF delay
Rating	AC 220V / 60Hz / 2.5VA
Output contact capacity	AC 220V 1.5A (Resistive load)
Timer (30sec) Module : 1ea	
Operation	ON delay
Rating	AC 220V 60Hz / 2.5VA
Output contact capacity	AC 220V/1.5A (Resistive load)
Magnetic Contactor Module(MC) : 2ea	
Contact composition	5a2b
Coil voltage / current	AC 220V 60Hz / 41mA
Rated contact capacity	AC 240V/4.5kW/18A
Assistance contact rating	AC 240V/3A

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Auxiliary Electromagnetic Contactor(MC) Module : 1ea	
Contact composition	1a3b
Coil voltage / current	AC 220V 60Hz / 41mA
Rated contact capacity	AC 240V / 4.5kW / 18A
Rated auxiliary contact	AC 240V 3A
Electronic Overload Relay(EOCR, 1/2HP) Module : 2ea	
Internal CT	3CT (tunnel type)
Current range (adjustable)	0.3 ~ 1.5A
Time setting	0 ~ 30 seconds
Operating power	AC 100~260V 60Hz
Rated contact capacity	AC 250V 3A (Resistive load)
Counter Module : 1ea	
Power	AC 100 ~ 240V 60Hz
Output contact capacity	AC 250V 3A (Resistive load)
Display	Digital 4 digits
Preset setting	4 digits digital switch
PLC Module : 1ea	
Input power	AC 100 ~ 240V 60Hz
Input contact	DC 24V 6 points
Output contact	Relay output 4 points
Built-in download port	
Processing speed	0.1 μ s/step
Program capacity	10k step

20P Terminal Module: 1ea	
Structure	Two-stage 20 points
10P Terminal Module: 1ea	
Structure	Single-stage 10 points
Relay Module	
Relay Module 8-PIN	2ea
Relay Module 11-PIN	2ea
Relay Module 14-PIN	2ea
Base Panel : 1ea (* Select Type A, B or C)	
Type of base panel	Type A: Aluminum profile base (CPS-3140)
	Type B: Punching plate base (CPS-3143)
	Type C: Bakelite base (CPS-3210)
Size: 800(W) x 600(D)mm	
Rubber feet: 4ea	

STANDARD ACCESSORIES

- Power cord : 1ea
- Connection cable (Y-terminal type) : 1set
- RS232C cable (for PLC download) : 1ea
- User's manual & Experimental manual : 1ea