YASKAWA ELECTRIC CORPORATION

AC Servo Drives Σ-7-Series SERVOPACKs
Σ-7C Two-Axis SERVOPACKs with Built-in Controller

Features

- Integrating a Two-Axis SERVOPACK and Controller saves 34 mm in width.

- The I/O required for equipment control and an Ethernet port are provided as standard features to allow you to build a small-scale equipment system based around just this one unit (no PLC required).

- Up to six axes can be configured (two internal axes plus four external axes connected via MECHATROLINK-III).

- You can use Σ-7C SERVOPACKs for equipment modularization or for distributed control systems.

Σ-7C

Specifications

Servo Function Module

Item	Specifications
Number of Controlled Axes	2
Capacity	200 W, 400 W, 750 W, 1 kW
I/O Voltage	200 VAC
Response Frequency	3.1 kHz
Servo I/O	12 discrete inputs and 7 discrete outputs
Safety Functions (Optional)	HWBB function (STO)
Reference Method	Position control, speed control, and torque control from built-in Controller (SVD)
Connected Motors	Σ-7-Series Rotary Servomotors, Linear Servomotors, and Direct Drive Servomotors
Analog Monitor	None
Dynamic Brake (DB)	Mounted.
Regenerative Processing	Built-in.
Overtravel (OT) Prevention	DB stop, deceleration to a stop, or coast to a stop for P-OT or N-OT
Protective Functions	Overcurrent, overvoltage, low voltage, overload, regeneration error, etc.
Utility Functions	Gain adjustment, alarm history, jogging, origin search, etc.
Engineering Tool	SigmaWin+ (USB connection and Controller connection)

Controller Function Module

Item		Specifications
Communications interface		Ethernet (100 Mbps)
Scan Time Settings	H Scan	500 μs to 32 ms (in 250-μs increments)
	L Scan	2.0 ms to 200 ms (in 0.5-ms increments)
MECHATROLINK		Built-in MECHATROLINK-III Minimum communications cycle: 125 μs
Applicable Devices		I/O, AC Drives, Servo Drives, and Stepping Motor Drives
Number of Controlled Axes	Built-in SVC	4 axes
	SVD	2 axes
	SVR (virtual axis)	4 axes
	Maximum Number of Controlled Axes	6 axes
USB Interface		Provided (for storage device).
Onboard I/O		16 discrete inputs, 16 discrete outputs, and 1 pulse input channel for Controller
Backup Memory Memory Capacity		Non-volatile memory (No battery required.)
Memory Capacity	Data Tracing	256 Kwords
	Table Data	1 Mbyte
	M Registers	1 Mword
Memory Capacity (Flash Memory)	Program	15 Mbytes
Calendar Backup		EDLC (No external battery required.)
Engineering Tool		MPE720 version 7

MECHATROLINK specifications

		M-III			
		16-byte	32-byte	48-byte	64-byte
Profile	Standard servo	-	-	×	-
	Standard I/O	×	×	×	×
	Standard Stepping Motor Drivers	-	-	×	-
	Standard Inverter	-	×	-	×
Transmission cycle		125μs, 250μs, 500μs, 1ms			

Contact Information

Please access **YASKAWA website (Please click. Then you can access.)**
YASKAWA has sales and after-sales service all around the world.
America: U.S.A., Brazil, Canada, Mexico
Asia Pacific: China, Korea, Taiwan, Singapore, India
Europe: Germany, Sweden, Israel, Italy, France, Spain, Finland, Netherlands, Slovenia, Czech republic, Turkey