한국요꼬가와전기

Leading Edge Controller (with MECHATROLINK-II Interface)

Features

FA-M3V is the result of a quest for high performance and advances functionality. FA-M3R features minimum scan time of 100μs and is faster than microcomputer boards.
F3NC96-0N Positioning Module supports MECHATROLINK-II, an open field network standard designed for high-speed motion control, and is the No.1 choice for configuring a system involving many controlled axes.

- Occupying a single slot of the base module, the module can control up to 15 axes (motors), and can be easily connected to motors using connectors, requiring minimal wiring time and cost.

- A high baud rate of 10 Mbps supports a short cycle time of 1 ms per set of 8 axes, which means quicker response and better synchronization with peripheral devices.

- Command transmission enables maximum utilization of motor performance (high speed and resolution) to achieve fast and accurate positioning control.

Positioning Module F3NC96-0N
(with MECHATROLINK-II Interface)

Specifications

Item		Specifications
Interface		MECHATROLINK-II compliant
Transmission rate		10Mbps
Transmission byte		32 bytes
Cycle time/ no. of stations		1.0 ms for up to 8 axes, 2.0 ms for up to 15 axes (user selectable)
Network Topology		Bus (multi-drop)
Communication method		Master/slave synchronous
Transmission media		2-wire shielded twisted pair cable (proprietary cable)
Max. transmission distance		50 m (total length)
Min. distance between stations		0.5m
Positioning functions	Position reference	−2,147,483,648 to 2,147,483,647 (reference unit)
	Functions	• Linear interpolation movement (starting and stopping multiple axes simultaneously) • Independent axis movement using MECHATROLINK-II commands (dependant on connected external equipment and supported MECHATROLINK-II commands)
	Others	• Reading of statuses (target position, current position, etc.) of external equipment • Reading and writing of parameters of external equipment

MECHATROLINK specifications

		M-I	M-II	
		17-byte	17-byte	32-byte
Command	Servo	-	-	✕
	Stepping Motor Drivers	-	-	✕
	Intelligent I/O	-	-	-
	Simple I/O	-	-	-
	Inverter	-	-	-
Transmission cycle				1ms, 2ms

Contact Information

MECHATROLINK