YASKAWA

AC Servo Drives

SERVOPACK

FT Specifications



For Indexing Application

Built-in INDEXER

The Sigma-7S FT 79 SERVOPACK provides built-in positioning with an INDEXER that lets you easily achieve motion control simply by entering positions, speeds, and other data for the operation pattern.

■ FT79 Line-Up							
SERVOPACK	Analog / Pulse	EtherCAT	M-III				
Interface	✓	_	_				
Servomotor	Rotary type	Direct Drive	Linear				
Application	✓ (50W to 15kW)	/	✓				

: Possible —: Not possible

Features

High-Precision, High-Speed Positioning without a Motion Controller

The operation pattern is easily set by entering the positions, speeds, and other data in a program table. You can use the SigmaWin+ Engineering Tool to easily and efficiently set up and edit operation patterns.

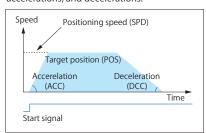
- Convenient positioning functions are also provided: ZONE signal outputs, jog speed table, origin returns, and more.
- A start command is received from a controller to start positioning.

■ Program Table Setting Example

PGMSTEP	POS	SPD	RDST	RSPD	ACC	DEC	EVENT	LOOP	NEXT
0	I+400000	2000	500000	1000	200	100	T5000	1	1
1	I+100000	1000	200000	2000	100	50	IT0	1	END
:	:	:	:	:	:	:	:	:	:
n	I+400000	2000	500000	1000	100	50	IT100	1	n+1
n+1	I+100000	1000	200000	2000	:	:	NT0	1	END
:	:	:	:	:	:	:	:	:	:
254	I+400000	2000	500000	1000	100	50	SEL3T200	1	127
255	I+100000	1000	200000	2000	100	50	DT0	1	END

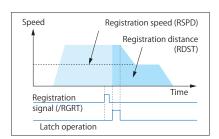
■ POS/SPD/ACC/DEC commands

An operation pattern is set up by entering the target positions, positioning speeds, accelerations, and decelerations.



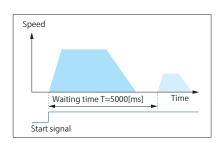
■ RDST/RSPD commands

The external signals can be used to control positioning (registration).



EVENT command

Conditions can be set to determine the completion of a program step.

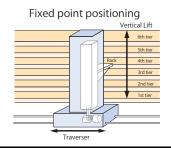


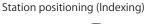
Applications

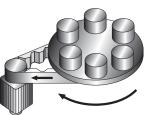
High-precision Positioning and Downsizing

Point-to-point positioning

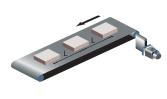


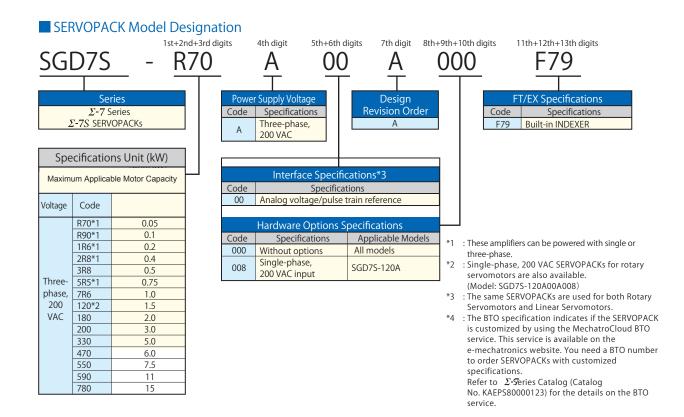












■ Product Comparison with INDEXER Module

ltem		Σ-7S FT79	Σ -7 S with INDEXER Module (SGDV-OCA03A)
Exterior	_	Same dimensions as a $arSigma$ -7 Analog	arSigma-7 S Command Option Attachable-type
		Voltage/Pulse Train References SERVOPACK	SERVOPACK with INDEXER Module (width: 20 mm)
I/O	DI (SERVOPACK/Option)	10 inputs (10 inputs/0 inputs),	17 inputs (6 inputs/11 inputs),
	DI (SERVOFACIVOPIIOII)	8 input signals can be allocated.	the allocated input signals cannot be changed.
	DO (SERVOPACK/Option)	7 outputs (7 outputs/0 outputs),	13 outputs (4 outputs/9 outputs),
		6 output signals can be allocated.	the allocated outputs signals cannot be changed.
Functionality	Reference method	Program table operation, pulse train	Program table operation or serial
	Reference metriod	references, or analog voltage references	communications operation
	Table operation	256 steps (commands with input signals: 32)	256 steps
	Jog speed table operation	8 speeds	16 speeds
	ZONE signal outputs	8 zones	32 zones
	Origin returns	3 methods	3 methods
	Equal-division index positioning	Rotating body settings	Rotating body settings
	(station position references)	with support software	with support software

Certified for International Standards

















YASKAWA AMERICA INC.

Product Information Site http://www.yaskawa.com

In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply.

Specifications are subject to change without notice for ongoing product modifications and

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Document FL.Sigma-7.12