

Standard Servo Drive APD-VS Series

- ▶ High efficiency power transformation technology realized by ASIC.
- ▶ Variety of communication options
- ▶ Convenient loader installation



Specification

Model (APD-VS)	R5	01	02	04	05	10	15	20	35	50	75	110	150	220	300	370	
Input Power supply (★Note)	3 phase AC200~230[V]+10%-15%, 50/60[Hz]																
Applicable Motor	Voltage Type	3 phase sine wave PWM driven Ac Servo Motor															
	Rated Current[A]	1.2	1.65	1.65	3.2	4.3	6.4	11	16	21	32	38	50	76	125	165	210
	MAx. Current[A]	3.6	4.95	4.95	9.6	12.9	19.2	33	48	63	96	102	125	190	250	370	420
Detector Type	Standard : Incremental 5V Line Drive 2000~10000P/rev Option : Absolute 11/13bit																
Speed Control Mode	Control function	Speed control range(1:10000), frequency Response(400Hz)														Response(200Hz)	
	Speed command	DC-10[V]~+10[V] (-Voltage: Reverse Rotation), Digital Command 7 Speeds.															
	Acceleration/Deceleration time	Linear, S Type Acceleration/Deceleration (0~100000[msec])															
	Speed variation ratio	± 0.01% or less(Load Variation 0-100%), ± 0.1% or less (Temperature 25 + - 10C)															
Position Control Mode	Input frequency	500[kpps]														400[kpps]	
	Pulse	A+B Phase, Forward+Reverse Pulse, Direction + Pulse(Line driver, Open collector)															
	Electronic gear ratio	Digital 4 speed, Available detail adjust															
Torque Control mode	Torque Command : DC -10 ~ +10V(- Voltage : Reverse), Linearity is less than 4%														Linearity is less than 2%		
Braking Type	Generative Brake, regenerative Brake														Regenerative Brake		
Ambient Environment	Operating Temp. : 0-50[°C], Storage Temp. : -20~+80[°C], Humidity : Less than 90C(Avoid condensation)																

Note 1) Single-phase AC220 -230V may be used : However, the output may be lower than the rating.
(the use of single-phase AC 220-230V for 500W and lower drive is acceptable)

APD-VP Series Ratings and Characteristics

Model (APD-VP)	R5	01	02	04	05	10	15	20	35	50	75	110	150	220	300	370	
Input Power supply (★Note)	3 phase AC200~230[V]+10%-15%, 50/60[Hz]																
Applicable Motor	Voltage Type	3 phase sine wave PWM driven AC Servo Motor															
	Rated Current[A]	1.2	1.65	1.65	3.2	4.3	6.4	11	16	21	32	38	50	76	125	165	210
	MAx. Current[A]	3.6	4.95	4.95	9.6	12.9	19.2	33	48	63	96	102	125	190	250	370	420
Detector Type	Standard : Incremental 5V Line Drive 2000~10000P/rev Option : Absolute 11/13bit																
Setting Up Position Coordinates	Set up Max. 64 point by input contacts, set up 6-digits of position, 2-digits of speed by digital switch																
External Input / Output	Input / Output Contacts	Input : 20 points, Output : 9 points															
	Position Pulse Input	Maximum input frequency : 500[kpps]														400[kpps]	
		Input system : A+B Phase, Forward+Reverse Pulse, Direction+Pulse(Line Drive, Open collection)															
	Analog Input	Maximum 4 Channels, DC-10~+10[V]															
	Analog Output	Maximum 2 Channels, DC0~5[V]															
Encoder Output	A, B and Z Phase, 5V Line Driver, 1/1~1/16 frequency deviding possible.																
Bracking System	Power Generated Braking, Regenerated Braking														Regenerated Braking		
Ambient Environment	Operating Temp : 0~50[°C], Storage Temp : -20~+80[°C], Humidity : less than 90[%]																

Note 1) Single-phase AC200 -230[V] may be used : However, the output may be lower than the rating.